2026 BRAZOS G INITIALLY PREPARED PLAN APPENDICES

Prepared for

The Brazos G Regional Water Planning Group

March 3, 2025

carollo®
TBPELS NO. F-558

In association with:
AGS Advanced Groundwater Solutions, LLC
PLUMMER

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2026 REGION G INITIALLY PREPARED PLAN – APPENDICES

Prepared for

BRAZOS G REGIONAL WATER PLANNING GROUP

March 3, 2025

Carollo Engineers, Inc.

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APPENDIX A

HISTORICAL SUPPLEMENTAL DATA

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Appendix A: Historical Supplemental Data

Table A.1. Historical Population. Table A-1 provides detailed historical population totals for each county in the BGRWPA for each decade from 1900 through 2020. Historical data provided was obtained from the U.S. Census Bureau. Table A-1 also provides region totals for each year listed, percent change in population from decade to decade, the State's total population, and its corresponding percent change from decade to decade.

Table A.2. Historical Population by Subregion. Table A-2 categorizes the data listed in Table A-1 by the subregions identified in the BGRWPA, including the Rolling Plains, IH-35 Corridor and Lower Basin. Population totals for each subregion are provided as the summation of the populations of the counties within that subregion.

Table A.3. Historical Use by Source. Table A-3 provides a listing of water use in the BGRWPA by source, either groundwater or surface water for 1980, 1990, 2000, 2010, 2016, and 2017. These data were obtained from the TWDB. The total water use for the region is also listed.

Table A.4. Historical Groundwater Pumpage by Aquifer. Table A-4 provides a detailed listing of groundwater use by aquifer for 1980, 1990, 2000, 2010, 2016, and 2017. These data are a summary of data obtained from the TWDB for groundwater use in the BGRWPA.

Table A.5. BGRWPA Reservoirs. Table A-5 provides a complete listing of the reservoirs in the BGRWPA with a permitted capacity of at least 2,500 acre-feet. This table is provided to supplement Table 1-5 in the report. Table A-6. Permitted Surface Water Diversions.

Table A.6 lists the permitted diversions by county obtained from the TCEQ water-rights database. Table A-6 provides supplemental information to Table 1-6 in the report.

Table A.7. Historical Use by County. Table A-7 provides detailed water-use data by county for the BGRWPA for 1980, 1990, 2000, 2010, 2016, and 2017. Region totals are also provided. The data were obtained from the TWDB.

Table A.8. Historical Water Use by Type. Table A-8 lists water use as municipal, manufacturing, power generation, mining, irrigation or livestock watering for 1980, 1990, 2000, 2010, 2016, and 2017. Region totals are included for each year. All data were obtained from the TWDB.

Table A.9. Historical Water Use by County, Source and Type. Table A-9 provides 2017 water use by source and type for each county in the BGRWPA. The percentage of use by source for each county is also included. The data were obtained from the TWDB.

Table A.1 BGRWPA Historical Population

Historical Population													
County	**1900**	**1910**	**1920**	**1930**	**1940**	**1950**	**1960**	**1970**	**1980**	**1990**	**2000**	**2010**	**2020**
Bell	45,535	49,186	46,412	50,030	44,863	73,824	94,097	124,483	157,889	191,088	237,974	310,235	370647
Bosque	17,390	19,013	18,032	15,750	15,761	11,836	10,809	10,966	13,401	15,125	17,204	18,212	18,235
Brazos	18,859	18,919	21,975	21,835	26,977	38,390	44,895	57,978	93,588	121,862	152,415	194,851	233849
Burleson	18,367	18,687	16,855	19,848	18,334	13,000	11,177	9,999	12,313	13,625	16,470	17,187	17642
Callahan	8,768	12,973	11,844	12,785	11,568	9,087	7,929	8,205	10,992	11,859	12,905	13,544	13708
Comanche	23,009	27,186	25,748	18,430	19,245	15,516	11,865	11,898	12,617	13,381	14,026	13,974	13594
Coryell	21,308	21,703	20,601	19,999	20,226	16,284	23,961	35,311	56,767	64,213	74,978	75,388	83093
Eastland	17,971	23,421	58,505	34,156	30,345	23,942	19,526	18,092	19,480	18,488	18,297	18,583	17725
Erath	29,966	32,095	28,385	20,804	20,760	18,434	16,236	18,141	22,560	27,991	33,001	37,890	42545
Falls	33,342	35,649	36,217	38,771	35,984	26,724	21,263	17,300	17,946	17,712	18,576	17,866	16968
Fisher	2,708	12,596	11,009	13,563	12,932	11,023	7,865	6,344	5,891	4,842	4,344	3,974	3672
Grimes	26,106	21,205	23,101	22,642	21,960	15,135	12,709	11,855	13,580	18,828	23,552	26,604	29268
Hamilton	13,520	15,315	14,676	13,523	13,303	10,660	8,488	7,198	8,297	7,733	8,229	8,517	8222
Haskell	2,637	16,249	14,193	16,669	14,905	13,736	11,174	8,512	7,725	6,820	6,093	5,899	5416
Hill	41,355	46,760	43,332	43,036	38,355	31,282	23,650	22,596	25,024	27,146	32,321	35,089	35874
Hood	9,146	10,008	8,759	6,779	6,674	5,287	5,443	6,368	17,714	28,981	41,100	51,182	61598
Johnson	33,819	24,460	37,286	33,317	30,384	31,390	34,720	45,769	67,649	97,165	126,811	150,934	179927
Jones	7,053	24,299	22,323	24,233	23,378	22,147	19,299	16,106	17,268	16,490	20,785	20,202	19663
Kent	899	2,655	3,335	3,851	3,413	2,249	1,727	1,434	1,145	1,010	859	808	753
Knox	2,322	9,625	9,240	11,368	10,090	10,082	7,857	5,972	5,329	4,837	4,253	3,719	3353
Lampasas	8,625	9,532	8,800	8,677	9,167	9,929	9,418	9,323	12,005	13,521	17,762	19,677	21627
Lee	14,595	13,132	14,014	13,390	12,751	10,144	8,949	8,048	10,952	12,854	15,657	16,612	17478
Limestone	32,573	34,621	33,283	39,497	33,781	25,251	20,413	18,100	20,224	20,946	22,051	23,384	22146
McLennan	59,772	73,250	82,921	98,682	101,898	130,194	150,091	147,553	170,755	189,123	213,517	234,906	260579
Milam	39,666	36,780	38,104	37,915	33,120	23,585	22,263	20,028	22,732	22,946	24,238	24,757	24754

Historical Population													
County	**1900**	**1910**	**1920**	**1930**	**1940**	**1950**	**1960**	**1970**	**1980**	**1990**	**2000**	**2010**	**2020**
Nolan	2,611	11,999	10,868	19,323	17,309	19,808	18,963	16,220	17,359	16,594	15,802	15,216	14738
Palo Pinto	12,291	19,506	23,431	17,576	18,456	17,154	20,516	28,962	24,062	25,055	27,026	28,111	28409
Robertson	31,480	27,454	27,933	27,240	25,710	19,908	16,157	14,389	14,653	15,511	16,000	16,622	16757
Shackelford	2,461	4,201	4,960	6,695	6,211	5,001	3,990	3,323	3,915	3,316	3,302	3,378	3105
Somervell	3,498	3,931	3,563	3,016	3,071	2,542	2,577	2,793	4,154	5,360	6,809	8,490	9205
Stephens	6,466	7,980	15,403	16,560	12,356	10,597	8,885	8,414	9,926	9,010	9,674	9,630	9101
Stonewall	2,183	5,320	4,086	5,667	5,589	3,679	3,017	2,397	2,406	2,013	1,693	1,490	1245
Taylor	10,499	26,293	24,081	41,023	44,147	63,370	101,078	97,853	110,932	119,655	126,551	131,506	143208
Throckmorton	1,750	4,563	3,589	5,253	4,275	3,618	2,767	2,205	2,053	1,880	1,850	1,641	1440
Washington	32,931	25,561	26,624	25,394	25,387	20,542	19,145	18,842	21,998	26,154	30,373	33,718	35805
Williamson	38,072	42,228	42,934	44,146	41,698	38,853	35,044	37,305	76,521	139,551	211,474	367,234	531124
Young	6,540	13,657	13,379	20,128	19,004	16,810	17,254	15,400	19,001	18,126	13,989	14,804	14,426
Region G Total	**680,093**	**802,012**	**849,801**	**871,571**	**833,387**	**821,013**	**855,217**	**895,682**	**1,130,823**	**1,350,811**	**1,621,961**	**1,975,834**	**2,330,899**
% change		17.93%	5.96%	2.56%	-4.38%	-1.48%	4.17%	4.73%	26.25%	19.45%	20.07%	21.82%	17.97%
Annual Growth Rate		1.66%	0.58%	0.25%	-0.45%	-0.15%	0.41%	0.46%	2.36%	1.79%	1.85%	1.99%	1.67%
State Total	**3048710**	**3896542**	**4663228**	**5824715**	**6414824**	**7711194**	**1E+07**	**1E+07**	**1.4E+07**	**1.7E+07**	**20851820**	**25145561**	**29145505**
% Change		27.81%	19.68%	24.91%	10.13%	20.21%	24.23%	16.88%	27.08%	19.38%	22.76%	20.59%	15.91%
Annual Growth Rate		2.48%	1.81%	2.25%	0.97%	1.86%	2.19%	1.57%	2.43%	1.79%	2.07%	1.89%	1.49%

Table A.2. Historical Population by Subregion

Sub-Region/ County	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	2020
Rolling Plains													
Bosque	17,390	19,013	18,032	15,750	15,761	11,836	10,809	10,966	13,401	15,125	17,204	18,212	18235
Callahan	8,768	12,973	11,844	12,785	11,568	9,087	7,929	8,205	10,992	11,859	12,905	13,544	13708
Comanche	23,009	27,186	25,748	18,430	19,245	15,516	11,865	11,898	12,617	13,381	14,026	13,974	13594
Coryell	21,308	21,703	20,601	19,999	20,226	16,284	23,961	35,311	56,767	64,213	74,978	75,388	83093
Eastland	17,971	23,421	58,505	34,156	30,345	23,942	19,526	18,092	19,480	18,488	18,297	18,583	17725
Erath	29,966	32,095	28,385	20,804	20,760	18,434	16,236	18,141	22,560	27,991	33,001	37,890	42545
Fisher	2,708	12,596	11,009	13,563	12,932	11,023	7,865	6,344	5,891	4,842	4,344	3,974	3672
Hamilton	13,520	15,315	14,676	13,523	13,303	10,660	8,488	7,198	8,297	7,733	8,229	8,517	8222
Haskell	2,637	16,249	14,193	16,669	14,905	13,736	11,174	8,512	7,725	6,820	6,093	5,899	5416
Hood	9,146	10,008	8,759	6,779	6,674	5,287	5,443	6,368	17,714	28,981	41,100	51,182	61598
Jones	7,053	24,299	22,323	24,233	23,378	22,147	19,299	16,106	17,268	16,490	20,785	20,202	19663
Kent	899	2,655	3,335	3,851	3,413	2,249	1,727	1,434	1,145	1,010	859	808	753
Knox	2,322	9,625	9,240	11,368	10,090	10,082	7,857	5,972	5,329	4,837	4,253	3,719	3353
Lampasas	8,625	9,532	8,800	8,677	9,167	9,929	9,418	9,323	12,005	13,521	17,762	19,677	21627
Nolan	2,611	11,999	10,868	19,323	17,309	19,808	18,963	16,220	17,359	16,594	15,802	15,216	14738
Palo Pinto	12,291	19,506	23,431	17,576	18,456	17,154	20,516	28,962	24,062	25,055	27,026	28,111	28409
Shackelford	2,461	4,201	4,960	6,695	6,211	5,001	3,990	3,323	3,915	3,316	3,302	3,378	3105
Somervell	3,498	3,931	3,563	3,016	3,071	2,542	2,577	2,793	4,154	5,360	6,809	8,490	9205
Stephens	6,466	7,980	15,403	16,560	12,356	10,597	8,885	8,414	9,926	9,010	9,674	9630	9101
Stonewall	2,183	5,320	4,086	5,667	5,589	3,679	3,017	2,397	2,406	2,013	1,693	1,490	1245
Taylor	10,499	26,293	24,081	41,023	44,147	63,370	101,078	97,853	110,932	119,655	126,551	131,506	143208
Throckmorton	1,750	4,563	3,589	5,253	4,275	3,618	2,767	2,205	2,053	1,880	1,850	1,641	1440
Young	6,540	13,657	13,379	20,128	19,004	16,810	17,254	15,400	19,001	18,126	13,989	14,804	14426
Totals	**213,621**	**334,120**	**358,810**	**355,828**	**342,185**	**322,791**	**340,644**	**341,437**	**404,999**	**436,300**	**480,532**	**505,835**	**538,081**

Sub-Region/ County	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	2020
IH-35 Corridor													
Bell	45,535	49,186	46,412	50,030	44,863	73,824	94,097	124,483	157,889	191,088	237,974	310,235	370647
Hill	41,355	46,760	43,332	43,036	38,355	31,282	23,650	22,596	25,024	27,146	32,321	35,089	35874
Johnson	33,819	24,460	37,286	33,317	30,384	31,390	34,720	45,769	67,649	97,165	126,811	150,934	179927
McLennan	59,772	73,250	82,921	98,682	101,898	130,194	150,091	147,553	170,755	189,123	213,517	234,906	260579
Williamson	38,072	42,228	42,934	44,146	41,698	38,853	35,044	37,305	76,521	139,551	211,474	367,234	531124
Totals	**218,553**	**235,884**	**252,885**	**269,211**	**257,198**	**305,543**	**337,602**	**377,706**	**497,838**	**644,073**	**822,097**	**1,098,398**	**1,378,151**
Lower Basin													
Brazos	18,859	18,919	21,975	21,835	26,977	38,390	44,895	57,978	93,588	121,862	152,415	194,851	233849
Burleson	18,367	18,687	16,855	19,848	18,334	13,000	11,177	9,999	12,313	13,625	16,470	17,187	17642
Falls	33,342	35,649	36,217	38,771	35,984	26,724	21,263	17,300	17,946	17,712	18,576	17,866	16968
Grimes	26,106	21,205	23,101	22,642	21,960	15,135	12,709	11,855	13,580	18,828	23,552	26,604	29268
Lee	14,595	13,132	14,014	13,390	12,751	10,144	8,949	8,048	10,952	12,854	15,657	16,612	17478
Limestone	32,573	34,621	33,283	39,497	33,781	25,251	20,413	18,100	20,224	20,946	22,051	23,384	22146
Milam	39,666	36,780	38,104	37,915	33,120	23,585	22,263	20,028	22,732	22,946	24,238	24,757	24754
Robertson	31,480	27,454	27,933	27,240	25,710	19,908	16,157	14,389	14,653	15,511	16,000	16,622	16757
Washington	32,931	25,561	26,624	25,394	25,387	20,542	19,145	18,842	21,998	26,154	30,373	33,718	35805
Totals	**247,919**	**232,008**	**238,106**	**246,532**	**234,004**	**192,679**	**176,971**	**176,539**	**227,986**	**270,438**	**319,332**	**371,601**	**414,667**
Region G Total	**680,093**	**802,012**	**849,801**	**871,571**	**833,387**	**821,013**	**855,217**	**895,682**	**1,130,823**	**1,350,811**	**1,621,961**	**1,975,834**	**2,330,899**

Table A.3. Historical Use by Source

Water Source	Year						
	1980	1990	2000	2010	2016	2017	2021
Groundwater	270,270	280,840	355,417	442,668	392,086	432,065	403,142
Surface Water	274,999	300,680	405,706	424,763	491,710	497,922	508,253
Region Total	**545,269**	**581,520**	**763,547**	**853,169**	**815,265**	**878,177**	**911,395**

Table A.4. Historical Groundwater Pumpage by Aquifer

Aquifer	Year						
	1980	1990	2000	2010	2016	2017	2021
Brazos River Alluvium	29,426	36,528	23,070	129,064	110,768	133,062	115,112
Carrizo-Wilcox	32,111	55,759	96,156	40,055	39,830	39,954	65,780
Dockum	2,067	2,071	4,884	8,440	13,515	16,083	15,700
Edwards-BFZ	9,428	12,314	34,372	18,744	15,585	13,697	16,958
Edwards-TP	1,607	1,486	303	2,545	356	411	670
Gulf Coast	3,326	4,870	7,251	4,162	2,750	2,696	4,619
Queen City	1,556	1,707	2,132	2,813	2,296	2,674	2,362
Seymour	94,996	60,795	101,710	62,601	66,932	76,404	67,199
Sparta	1,042	1,423	1,595	4,445	4,893	4,531	4,487
Trinity	80,601	92,655	90,180	61,816	69,878	71,574	75,366
Woodbine	1,635	1,024	1,363	912	566	479	385
Blaine				406	279	335	385
Ellenburger-San Saba				28	20	22	22
Marble Falls				20	19	20	13
Ogallala				7	1	1	3
Yegua-Jackson				3,600	2,909	3,080	2,931
Cross Timbers							66
Other-Undiff	13,472	9,757	6,999	84,948	62,927	71,400	63,311
Region Total	**271,267**	**280,389**	**370,015**	**424,606**	**393,524**	**436,423**	**435,369**

Table A.5. BGRWPA Reservoirs

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (Acft/yr)					Owner	Water Right Holders (Greater than 1,000 acft)
				Municipal	Industrial	Irrigation	Other	Total		
Abilene	Elm Creek	Taylor	11,868	1,675	0	0	0	1,675	City of Abilene	City of Abilene
Alcoa Lake	Sandy Creek	Milam	15,650	0	14,000	0	0	14,000	Aluminum Co. of America	Aluminum Co. of America
Alvarado	Turke Creek	Johnson	4,781	500	300	0	0	800	City of Alvarado	
Anson North	Thompson Creek	Jones	2,500	542	0	0	0	542	City of Anson	
Aquilla	Aquilla Creek	Hill	52,400	13,896	0	0	0	13,896	U.S. Army Corps of Engineers	Brazos River Authority
Belton	Leon River	Bell	469,600	130,257	0	0	0	130,257	U.S. Army Corps of Engineers	U.S. Army Corps of Engineers, Brazos River Authority
Brushy Creek	Brazos River	Falls	6,560	4,000	0	0	0	0	City of Marlin	
Camp Creek	Camp Creek	Robertson	8,400	0	0	0	0	0	Camp Creek Water Co.	
Cisco	Sandy Creek	Eastland	45,000	1,971	56	0	0	2,027	City of Cisco	City of Cisco
Cleburne	Nolan River	Johnson	25,600	5,760	0	240	0	6,000	City of Cleburne	City of Cleburne
Clyde	North Prong Pecan Creek	Callahan	5,748	1,000	0	0	0	1,000	City of Clyde	City of Clyde
Daniel	Gonzales Creek	Stephens	11,400	2,100	0	0	0	2,100	City of Breckenridge	City of Breckenridge
Dansby Power plant	Thompsons Creek	Brazos	15,227	0	850	0	0	850	City of Bryan	City of Bryan
Davis Catherine	Dutchmen Creek	Knox	7,479	0	0	2,031	0	2,031	League Ranch	League Ranch
E-Area End Lake	Yegua Creek	Milam	7,173	0		0	0	0	Aluminum Co. of America	Aluminum Co. of America
Fort Parker	Navasota River	Limestone	3,100	0	0	6	0	6	Texas Parks and Wildlife Dept.	
Fort Phantom Hill	Elm Creek	Jones	73,960	25,690	6,500	1,000		33,190	City of Abilene	City of Abilene, AEP Texas
Georgetown	North Fork San Gabriel River	Williamson	37,100	13,610	0	0	0	13,610	U.S. Army Corps of Engineers	Brazos River Authority
Gibbons Creek	Gibbons Creek	Grimes	32,084	0	9,740	0	0	9,740	Texas Municipal Power Agency	Texas Municipal Power Agency
Graham/Eddleman	Flint Creek	Young	52,386	11,000	8,400	100	500	20,000	City of Graham	City of Graham
Granbury	Brazos River	Hood	155,000	64,712	0	0	0	64,712	Brazos River Authority	Brazos River Authority

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (Acft/yr)					Owner	Water Right Holders (Greater than 1,000 acft)
				Municipal	Industrial	Irrigation	Other	Total		
Granger	San Gabriel River	Williamson	65,500	19,840	0	0	0	19,840	U.S. Army Corps of Engineers	Brazos Rive Authority
Hubbard Creek	Hubbard Creek	Stephens	317,750	56,000	0	0	0	56,000	West Central Texas MWD	West Central Texas MWD
Kirby	Cedar Creek	Taylor	8,500	3,880	0	0	0	3,880	City of Abilene	City of Abilene
Lake Brazos	Brazos River	McLennan	3,537	5,600	0	0	0	5,600	City of Waco	City of Waco
Lake Creek	Brazos River	McLennan	8,500	0	10,000	0	0	10,000	Luminant Generation Co.	Luminant Generation Co.
Leon	Leon River	Eastland	28,000	5,450	350	500	0	6,300	Eastland Co. WSD	Eastland Co. WSD
Limestone	Navasota River	Robertson	225,400	65,074	0	0	0	65,074	Brazos River Authority	Brazos River Authority
McCarty	Salt Prong	Shackelford	2,600	600	0	0	0	600	City of Albany	
Mexia	Navasota River	Limestone	9,600	2,887	65	0	0	2,952	Bistone MWSD	Bistone MWSD
Millers Creek Lake	Millers Creek	Baylor	30,696	3,500	1,000	0	500	5,000	North Central Texas MWD	North Central Texas MWD
New Marlin	Brazos River	Falls	3,135	6,000	2,000	0	0	8,000	City of Marlin	City of Marlin
Palo Pinto	Palo Pinto Creek	Palo Pinto	44,124	12,500	6,000	0	0	18,500	Palo Pinto MWD	Palo Pinto MWD
Possum Kingdom	Brazos River	Palo Pinto	724,739	230,750	0	0	0	230,750	Brazos River Authority	Brazos River Authority
Proctor	Leon River	Comanche	59,400	19,658	0	0	0	19,658	U.S. Army Corps of Engineers	Brazos Rive Authority
Robinson Off-Channel Reservoirs	Brazos River	McLennan	8,037	13,100	0	0	0	13,100	City of Robinson	City of Robinson
Somerville	Yegua Creek	Washington	160,110	48,000	0	0	0	48,000	U.S. Army Corps of Engineers	Brazos Rive Authority
Squaw Creek Reservoir	Squaw Creek	Somervell	151,500	0	23,180	0	0	23,180	TXU Electric Co.	TXU Electric Co.
Stamford	Paint Creek	Haskell	60,000	10,000	0	0	0	10,000	City of Stamford	City of Stamford
Stillhouse Hollow	Lampasas River	Bell	235,700	67,768	0	0	0	67,768	U.S. Army Corps of Engineers	Brazos River Authority
Sweetwater	Cottonwood Creek	Nolan	10,000	2,730	960	50	0	3,740	City of Sweetwater	City of Sweetwater
Tradinghouse	Brazos River	McLennan	37,800	0	15,000	0	0	15,000	Tradinghouse Power Co. LLC	Tradinghouse Power Co. LLC
Trammel	Sweetwater Creek	Nolan	2,500	2,000	0	0	0	2,000	City of Sweetwater	City of Sweetwater

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (Acft/yr)					Owner	Water Right Holders (Greater than 1,000 acft)
				Municipal	Industrial	Irrigation	Other	Total		
Truscott Brine	Bluff Creek	Knox	107,000	0	0	0	0	0	Red River Authority of Texas	
Twin Oak	Duck Creek	Robertson	30,319		13,200			13,200	TXU Electric Co.	TXU Electric Co.
Waco	Bosque River	McLennan	192,062	78,969	16,802	900	0	96,671	City of Waco	City of Waco
Wheeler Branch	Wheeler Branch	Somervell	4,118	2,000	0	0	0	2,000	Somervell County Water District	Somervell County Water District
Whitney	Brazos River	Hill	50,000	18,336	0	0	0	18,336	U.S. Army Corps of Engineers	Brazos River Authority
Mineral Wells		Parker	7,065	840	0	1680	0	2,520	Mineral Wells	City of Mineral Wells

Table A.6. lists the permitted diversions by county obtained from the TCEQ water-rights database.

County	Permitted Diversion (acft/yr)					
	Municipal	Industrial	Irrigation	Mining	Other	Total
Bell	45080	5152	5144.344	346	5	55727.34
Bosque	3940	9	5635		0	9584
Brazos		1169	12468.19	749	884.4	15270.59
Burleson		7398	2778	1900	0	12076
Callahan	550		1042		0	1592
Comanche	5035	11	11902.04		0	16948.04
Coryell			1994			1994
Eastland	8421	506	2010	1607	0	12544
Erath	280		3951.16		25	4256.16
Falls	6339	2078	7319	137	0	15873
Fisher		26	724			750
Grimes			1893		0	1893
Hamilton	614	2.5	3252.777			3869.277
Haskell			1309			1309
Hill			1756	1459	0	3215
Hood	690	39350	10424.78	350	400	51214.78
Johnson	500	300	3286.1	125	0	4211.1
Jones	33842		2028	378	0	36248
Kent	0		554	5900		6454
Knox	34		2233		0	2267
Lampasas	882	58	2369.8		0	3309.8
Lee			182	325		507
Limestone	5547	65	8	92	0	5712
McLennan	37089	43883	5192		0	86164

County	Permitted Diversion (acft/yr)					
	Municipal	Industrial	Irrigation	Mining	Other	Total
Milam	2792	69628	8284.2	1637	0	82341.2
Nolan	2000	45	636			2681
Palo Pinto	15374	109676	6909	1183.1	0	133142.1
Robertson		1396058	10710	1071.7	0	1407840
Shackelford	774		88		0	862
Somervell		23280	506	564	0	24350
Stephens	2100		1078		0	3178
Stonewall			8	235	0	243
Taylor	1905	649	1101.6	32	50	3737.6
Throckmorton	660		9			669
Washington	774	20	2.25	450	0	1246.25
Williamson	310	203	843.3	540	3620	5516.3
Young	11250	12003	1368	613	0	25234
Region Total	**186,782**	**1,711,570**	**121,000**	**19,693.8**	**4,984.4**	**2,044,029**

Table A.7. Historical Use by County

County	Year						
	1980	1990	2000	2010	2016	2017	2021
Bell	31,507	35,866	49,886	57,523	59,028	60,352	65548
Bosque	4,893	5,403	7,808	10,210	7,945	8,620	9556
Brazos	29,300	41,264	39,097	71,551	74,249	79,363	144353
Burleson	9,508	9,956	22,165	32,085	20,551	30,629	19831
Callahan	3,608	3,396	3,378	3,066	2,083	2,234	2802
Comanche	31,034	54,850	42,113	30,602	28,506	33,182	34807
Coryell	11,898	11,202	18,044	16,185	14,024	13,976	14952
Eastland	19,781	16,491	20,512	9,182	6,157	6,772	6437
Erath	21,190	19,902	24,991	18,486	16,095	18,309	20849
Falls	10,103	10,966	7,585	12,986	10,544	12,425	11556
Fisher	5,075	4,630	4,358	6,231	4,141	4,646	5692
Grimes	3,534	15,969	10,195	20,362	14,489	13,412	9375
Hamilton	4,090	4,476	3,818	4,059	3,304	4,186	4229
Haskell	43,140	24,172	52,851	37,570	42,051	46,366	42358
Hill	5,648	5,286	6,553	10,095	8,136	8,116	8595
Hood	8,513	15,605	12,864	19,315	16,272	17,815	17065
Johnson	12,672	15,182	26,025	28,517	24,334	24,867	29009
Jones	14,803	9,703	10,540	5,587	5,491	5,201	7814
Kent	1,607	1,916	1,649	1,344	1,098	1,151	1270
Knox	51,309	33,774	44,926	30,338	29,736	36,119	29545
Lampasas	3,983	3,350	5,557	3,853	4,672	4,620	5067
Lee	3,957	4,677	5,876	7,429	4,364	5,073	4632
Limestone	4,800	9,766	27,494	32,474	21,366	21,279	14829
McLennan	70,528	58,934	74,850	56,616	66,864	68,621	64635
Milam	19,935	32,134	59,275	42,897	32,465	30,337	16490

County	Year						
	1980	1990	2000	2010	2016	2017	2021
Nolan	9,719	7,389	10,170	10,847	14,773	16,614	16207
Palo Pinto	8,749	7,067	8,302	13,035	7,558	9,265	8695
Robertson	24,856	25,504	25,394	122,268	105,778	123,708	109377
Shackelford	1,963	2,072	2,413	1,585	1,335	1,203	1358
Somervell	1,578	11,424	20,101	24,879	67,795	68,495	70540
Stephens	9,094	3,597	10,231	3,230	1,920	1,964	1943
Stonewall	1,461	1,719	1,129	910	614	695	721
Taylor	32,040	31,573	43,122	23,999	24,756	25,550	27684
Throckmorton	838	1,475	1,145	805	665	946	1065
Washington	5,444	6,397	8,815	7,505	6,291	6,789	7355
Williamson	16,471	27,458	44,125	71,868	84,636	88,785	104868
Young	6,640	6,975	6,190	3,676	4,751	4,426	5030
Region Total	**545,269**	**581,520**	**763,547**	**853,170**	**838,837**	**906,111**	**946139**

Table A.8. Historical Water Use by Type

Use Type	Year					
	1980	1990	2000	2010	2017	2021
Municipal	216,782	238,260	312,169	333,404	362,937	387,752
Manufacturing	21,124	32,240	60,522	9,006	10,582	10,081
Power	28,686	57,657	97,921	113,553	205,181	199,296
Mining	11,413	6,944	4,382	57,644	13,730	9,246
Irrigation	229,387	200,954	232,911	298,754	315,648	284,769
Livestock	38,916	46,771	53,222	55,208	41,987	43,303
Total Use	**546,308**	**582,826**	**761,127**	**867,569**	**950,065**	**934,447**

Table A.9. Historical Water Use by County, Source and Type

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Mining	Power	Irrigation	Livestock		
Bell	G	3,047	2	31	0	726	221	4,027	6.6%
	S	53,959	551	2	0	2,299	516	57,327	93.4%
	Total	**57,006**	**553**	**33**	**0**	**3,025**	**737**	**61,354**	**100.0%**
Bosque	G	2,947	3	0	0	1,671	290	4,911	51.4%
	S	430	1	12	2,383	1,135	678	4,639	48.6%
	Total	**3,377**	**4**	**12**	**2,383**	**2,806**	**968**	**9,550**	**100.0%**
Brazos	G	35,268	1,706	118	63	28,853	410	66,418	46.5%
	S	1,079	0	0	73,801	876	761	76,517	53.5%
	Total	**36,347**	**1,706**	**118**	**73,864**	**29,729**	**1,171**	**142,935**	**100.0%**
Burleson	G	2,476	30	93	0	15,868	313	18,780	95.0%
	S	0	0	0	0	265	729	994	5.0%
	Total	**2,476**	**30**	**93**	**0**	**16,133**	**1,042**	**19,774**	**100.0%**
Callahan	G	467	0	0	0	482	218	1,167	41.6%
	S	980	0	0	0	1	654	1,635	58.4%
	Total	**1,447**	**0**	**0**	**0**	**483**	**872**	**2,802**	**100.0%**
Comanche	G	670	1	5	0	17,549	868	19,093	54.9%
	S	1,321	6	0	0	11,783	2,604	15,714	45.1%
	Total	**1,991**	**7**	**5**	**0**	**29,332**	**3,472**	**34,807**	**100.0%**
Coryell	G	522	0	0	0	438	151	1,111	7.5%
	S	12,718	3	2	0	180	856	13,759	92.5%
	Total	**13,240**	**3**	**2**	**0**	**618**	**1,007**	**14,870**	**100.0%**
Eastland	G	392	0	0	0	2,728	40	3,160	49.9%
	S	1,895	43	242	0	235	763	3,178	50.1%
	Total	**2,287**	**43**	**242**	**0**	**2,963**	**803**	**6,338**	**100.0%**

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Mining	Power	Irrigation	Livestock		
Erath	G	4,414	141	0	0	9,606	1,824	15,985	76.7%
	S	448	0	0	0	160	4,256	4,864	23.3%
	Total	**4,862**	**141**	**0**	**0**	**9,766**	**6,080**	**20,849**	**100.0%**
Falls	G	1,124	0	0	0	6,274	303	7,701	66.6%
	S	1,895	0	0	0	246	1,714	3,855	33.4%
	Total	**3,019**	**0**	**0**	**0**	**6,520**	**2,017**	**11,556**	**100.0%**
Fisher	G	359	106	86	0	4,133	136	4,820	89.8%
	S	345	0	0	0	0	205	550	10.2%
	Total	**704**	**106**	**86**	**0**	**4,133**	**341**	**5,370**	**100.0%**
Grimes	G	4,070	186	0	1	381	322	4,960	53.1%
	S	0	0	0	3,628	0	753	4,381	46.9%
	Total	**4,070**	**186**	**0**	**3,629**	**381**	**1,075**	**9,341**	**100.0%**
Hamilton	G	602	0	0	0	1,251	246	2,099	49.6%
	S	714	15	0	0	9	1,392	2,130	50.4%
	Total	**1,316**	**15**	**0**	**0**	**1,260**	**1,638**	**4,229**	**100.0%**
Haskell	G	155	0	0	0	41,055	139	41,349	97.6%
	S	684	1	0	0	0	324	1,009	2.4%
	Total	**839**	**1**	**0**	**0**	**41,055**	**463**	**42,358**	**100.0%**
Hill	G	3,835	0	2	0	336	62	4,235	49.3%
	S	2,921	4	0	0	259	1,176	4,360	50.7%
	Total	**6,756**	**4**	**2**	**0**	**595**	**1,238**	**8,595**	**100.0%**
Hood	G	5,592	4	65	15	3,244	192	9,112	53.4%
	S	3,467	0	1	1,834	2,417	234	7,953	46.6%
	Total	**9,059**	**4**	**66**	**1,849**	**5,661**	**426**	**17,065**	**100.0%**
Johnson	G	6,234	1,121	4	0	80	413	7,852	27.9%
	S	18,053	743	0	343	213	963	20,315	72.1%

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Mining	Power	Irrigation	Livestock		
	Total	**24,287**	**1,864**	**4**	**343**	**293**	**1,376**	**28,167**	**100.0%**
Jones	G	761	0	461	0	1,951	144	3,317	44.8%
	S	1,899	0	0	0	1,917	268	4,084	55.2%
	Total	**2,660**	**0**	**461**	**0**	**3,868**	**412**	**7,401**	**100.0%**
Kent	G	129	0	2	0	828	266	1,225	96.5%
	S	0	0	0	0	15	30	45	3.5%
	Total	**129**	**0**	**2**	**0**	**843**	**296**	**1,270**	**100.0%**
Knox	G	132	0	0	0	28,418	93	28,643	96.9%
	S	528	0	0	0	0	374	902	3.1%
	Total	**660**	**0**	**0**	**0**	**28,418**	**467**	**29,545**	**100.0%**
Lampasas	G	102	0	0	0	99	194	395	7.8%
	S	3,709	160	28	0	414	359	4,670	92.2%
	Total	**3,811**	**160**	**28**	**0**	**513**	**553**	**5,065**	**100.0%**
Lee	G	2,331	8	198	0	680	400	3,617	79.5%
	S	0	0	0	0	0	934	934	20.5%
	Total	**2,331**	**8**	**198**	**0**	**680**	**1,334**	**4,551**	**100.0%**
Limestone	G	2,377	33	349	521	23	15	3,318	22.4%
	S	806	7	291	8,973	0	1,421	11,498	77.6%
	Total	**3,183**	**40**	**640**	**9,494**	**23**	**1,436**	**14,816**	**100.0%**
McLennan	G	11,301	1,216	0	3	2,204	266	14,990	27.1%
	S	33,462	2,324	50	0	3,011	1,510	40,357	72.9%
	Total	**44,763**	**3,540**	**50**	**3**	**5,215**	**1,776**	**55,347**	**100.0%**
Milam	G	3,401	0	282	0	4,119	492	8,294	50.8%
	S	6,747	0	15	0	112	1,149	8,023	49.2%
	Total	**10,148**	**0**	**297**	**0**	**4,231**	**1,641**	**16,317**	**100.0%**

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Mining	Power	Irrigation	Livestock		
Nolan	G	1,514	376	7	0	13,472	150	15,519	96.7%
	S	156	174	0	0	96	100	526	3.3%
	Total	**1,670**	**550**	**7**	**0**	**13,568**	**250**	**16,045**	**100.0%**
Palo Pinto	G	384	0	0	0	408	79	871	10.1%
	S	4,905	10	664	265	400	1,510	7,754	89.9%
	Total	**5,289**	**10**	**664**	**265**	**808**	**1,589**	**8,625**	**100.0%**
Robertson	G	2,410	38	3,118	5,460	67,330	644	79,000	72.3%
	S	91	0	0	28,441	212	1,504	30,248	27.7%
	Total	**2,501**	**38**	**3,118**	**33,901**	**67,542**	**2,148**	**109,248**	**100.0%**
Shackelford	G	16	0	0	0	157	5	178	13.1%
	S	675	0	0	0	0	505	1,180	86.9%
	Total	**691**	**0**	**0**	**0**	**157**	**510**	**1,358**	**100.0%**
Somervell	G	745	2	484	1	157	41	1,430	2.0%
	S	774	0	98	67,880	92	97	68,941	98.0%
	Total	**1,519**	**2**	**582**	**67,881**	**249**	**138**	**70,371**	**100.0%**
Stephens	G	44	0	28	0	108	41	221	11.4%
	S	1,227	3	0	0	125	365	1,720	88.6%
	Total	**1,271**	**3**	**28**	**0**	**233**	**406**	**1,941**	**100.0%**
Stonewall	G	120	0	0	0	96	336	552	76.6%
	S	85	0	0	0	0	84	169	23.4%
	Total	**205**	**0**	**0**	**0**	**96**	**420**	**721**	**100.0%**
Taylor	G	68	4	9	0	737	110	928	3.8%
	S	21,679	474	0	0	940	623	23,716	96.2%
	Total	**21,747**	**478**	**9**	**0**	**1,677**	**733**	**24,644**	**100.0%**

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Mining	Power	Irrigation	Livestock		
Throckmorton	G	22	0	1	0	67	0	90	8.5%
	S	267	0	0	0	0	708	975	91.5%
	Total	**289**	**0**	**1**	**0**	**67**	**708**	**1,065**	**100.0%**
Washington	G	2,146	142	213	0	209	172	2,882	39.9%
	S	2,697	89	0	0	0	1,552	4,338	60.1%
	Total	**4,843**	**231**	**213**	**0**	**209**	**1,724**	**7,220**	**100.0%**
Williamson	G	18,828	42	1,097	0	343	429	20,739	20.2%
	S	80,439	298	0	0	22	1,001	81,760	79.8%
	Total	**99,267**	**340**	**1,097**	**0**	**365**	**1,430**	**102,499**	**100.0%**
Young	G	447	0	0	0	104	135	686	13.6%
	S	2,391	80	0	645	686	542	4,344	86.4%
	Total	**2,838**	**80**	**0**	**645**	**790**	**677**	**5,030**	**100.0%**

APPENDIX B

AQUIFER DESCRIPTIONS AND GROUNDWATER AVAILABILITY

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Appendix B: Aquifer Descriptions and Groundwater Availability

B.1 Method of Determination for Groundwater Availability

When available, the amount of groundwater available for development is based on the TWDB's determination of modeled available groundwater (MAG), which is based on desired future conditions (DFC), as established by members of Groundwater Conservation Districts within a Groundwater Management Area (GMA). If a groundwater availability model (GAM) is available for an aquifer, it is to be used by the TWDB in making the MAG determination.

The MAG determination is based upon the results of joint groundwater planning done by Groundwater Management Areas (GMAs) 6, 7, 8, 12, and 14. Each GMA developed desired future conditions (DFCs) for all of the aquifers within the GMA, and the TWDB determined the MAGs for these aquifers based on the DFCs adopted by each GMA

For aquifers without an adopted MAG, the TWDB provided "non-MAG" estimates for groundwater availability. Many of these non-MAG estimates are based on groundwater modeling conducted during the development of the MAGs for other aquifers. Some of the non-MAG availabilities were carried over from the last planning cycle. The Brazos G technical consultant reviewed the groundwater availability estimates and recommended some adjustments based on a variety of sources, including information from historical TWDB groundwater reports, the TWDB groundwater database, estimates of historic pumping, and information from Brazos G members and stakeholders. In many cases, the recommendations were to restore the non-MAG availabilities from the 2021 RWP cycle.

B.2 Blaine Aquifer

B.2.1 Location

The Blaine Aquifer is a minor aquifer that occurs in the extreme western part of Brazos G and east of the High Plains of Texas (Figure B-1).

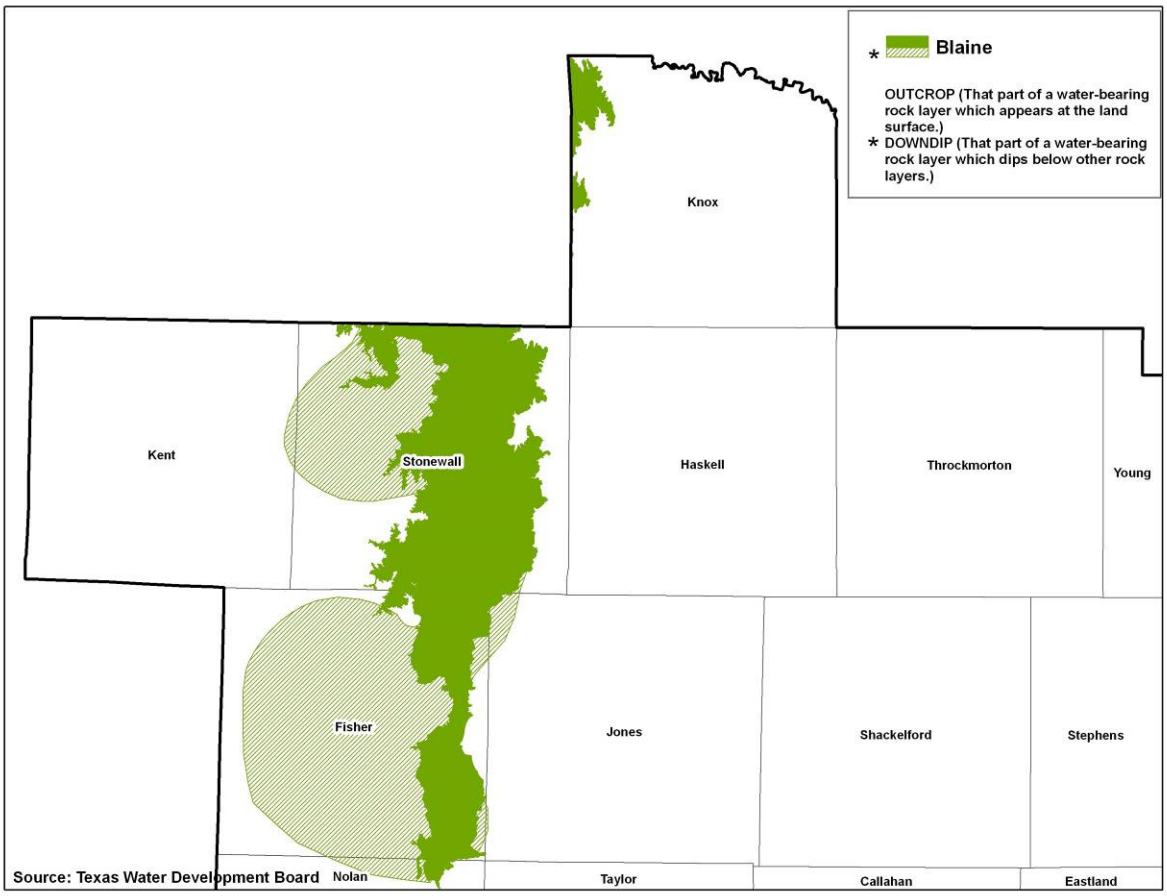

Figure B-1. Location of Blaine Aquifer in Brazos G

B.2.2 Geohydrology

The Blaine Formation of the Pease River Group of Permian age consists of beds of gypsum, anhydrite, halite, dolomite, sandstone, and shale. Although the individual beds of gypsum and dolomite are laterally continuous, not all beds are found throughout the formation. Recharge primarily occurs from precipitation on the outcrop, which is along the eastern edge of the formation. Discharge is to the wells, seepage to streams, or leakage to other formations. Saturated thickness reaches 300 feet in the aquifer, but freshwater saturated thickness averages about 135 feet. Groundwater occurs primarily in solution channels and caverns within the beds of anhydrite and gypsum that contribute to the overall poor quality of water that is typical for this aquifer. Although some wells contain slightly saline water, with total dissolved solids between 1,000 and 3,000 milligrams per liter, most contain moderately saline water, with total dissolved solids between 3,000 and 10,000 milligrams per liter, exceeding secondary drinking water standards for Texas. The aquifer is under water table conditions in the eastern part of the aquifer and under confined conditions to the west.

B.2.3 Development and Use

While the upper part of the Blaine provides irrigation supplies from gypsum and dolomite beds in adjacent planning areas, Ogilbee (1962) reports that similar conditions are not present in Knox County. They probably do not exist in Fisher, Nolan and Stonewall Counties either. The TWDB database shows only a few livestock and household wells in the Blaine Aquifer in the four counties. These data show inventoried Blaine wells be less than 200 ft deep. Water quality is highly variable. The TWDB estimated 2021 pumpage from Blaine Aquifer in Brazos G was 385 acft/yr, most of which was for irrigation use.

B.2.4 Availability

The Blaine Aquifer in Brazos G is in GMA-6. In November 2022, the TWDB produced a report titled GAM Run 21-011 MAG, which includes the MAG for the Blaine Aquifer in GMA-6 (Harding, 2022). The MAGs were determined using the Desired Future Conditions (DFCs) adopted by GMA-6 and the groundwater model of the Seymour and Blaine aquifers (Ewing et. al, 2004). Using the approach outlined by the TWDB, the MAGs were calculated for Fisher County, which was the only county in Brazos G with an adopted MAG for the Blaine Aquifer. Availability of the Blaine Aquifer in other counties was provided by the TWDB as a non-MAG availability. Several of the non-MAG availabilities were updated by the Brazos G technical consultant as discussed in the Technical Memorandum.

Blaine Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Fisher	12,820	12,820	12,820	12,820	12,820	12,820
Knox*	700	700	700	700	700	700
Nolan*	100	100	100	100	100	100
Stonewall*	8,700	8,700	8,700	8,700	8,700	8,700
Total	22,320	22,320	22,320	22,320	22,320	22,320

*Non-GAM estimate

B.2.5 Well Yields and Water Quality

Any extensive development of this aquifer is unlikely because of the frequent occurrence of poor-quality water and low well yields.

B.2.6 Resource Considerations

Counties in groundwater districts where the Blaine Aquifer is present in the region include Knox (Rolling Plains Groundwater Conservation District (GCD)), Fisher (Clear Fork GCD), and Nolan (Wes-Tex GCD).

B.2.7 References

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Ewing, J.D., Jones, T.L., Pickens, J.F. and others, 2004, Groundwater Availability for the Seymour Aquifer: Texas Water Development Board Contract Report. http://www.twdb.state.tx.us/gam/symr/symr.htm

Harding, J., 2022, Gam Run 21-011 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 6, Texas Water Development Board Groundwater Division.

B.3 Brazos River Alluvium Aquifer

B.3.1 Location

The Brazos River Alluvium Aquifer is a minor aquifer that occurs along the floodplain and terrace deposits of the Brazos River downstream of Hill and Bosque Counties. The width of the aquifer ranges from less than one to almost seven miles. The Brazos River Alluvium Aquifer in Brazos G occurs in parts of Hill, Bosque, McLennan, Falls, Milam, Robertson, Burleson, Brazos, Washington and Grimes Counties. It is limited to the valley area along the Brazos River (Figure B-2).

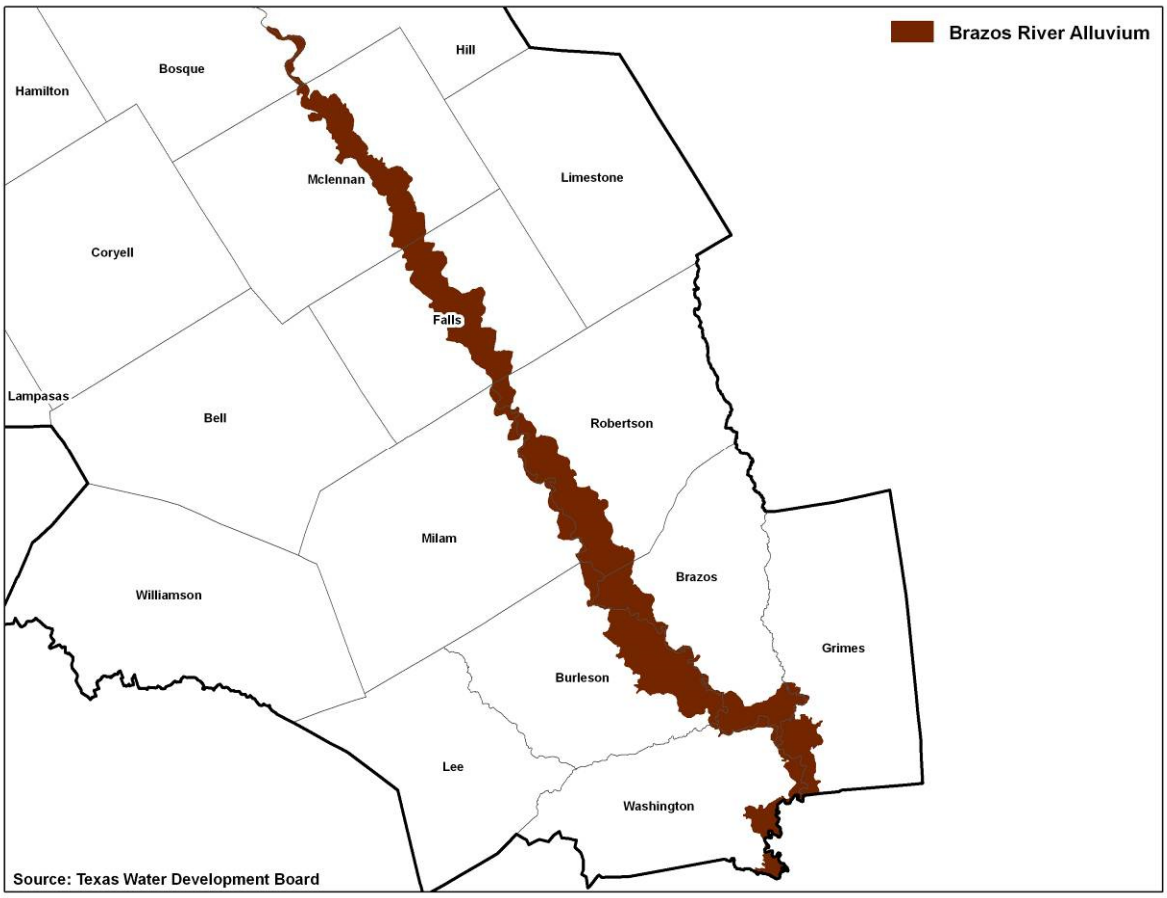

Figure B-2. Location of Brazos River Alluvium Aquifer in Brazos G

B.3.2 Geohydrology

The river alluvium along the Brazos River forms a floodplain and a series of terraces. The floodplain is the primary source of groundwater locally, although groundwater also may occur in the terrace deposits that are outside the floodplain. The alluvium consists of layers of clay, silt, sand and gravel. The coarsest and best water-bearing zones are in the lower part of the aquifer. Water in the floodplain alluvium exists under water table conditions in most areas. The maximum saturated thickness of the alluvium is nearly 170 feet (George and others, 2011). The primary source of recharge is precipitation on the floodplain and interaction with the Brazos River. Lesser amounts of recharge are losses of runoff in streams crossing the floodplain, groundwater discharge from adjacent aquifers and return flow from irrigation water. Discharge is mostly by seepage to the Brazos River, evapotranspiration, and wells.

B.3.3 Development and Use

The year 2021 Brazos G groundwater use for the Brazos River Alluvium Aquifer was estimated to be 115,112 acft with approximately 99 percent used for irrigation.

B.3.4 Availability

The Brazos River Alluvium Aquifer in Brazos G is in GMA-8 and GMA-12. In November 2022, the TWDB produced a report titled GAM Run 21-017 MAG, which includes the MAG for the Brazos River Alluvium Aquifer in GMA-12 (Shi and Harding, 2022). The MAG volume for the Brazos River Alluvium Aquifer was determined using the DFCs adopted by GMA-12 and the groundwater availability model for the Brazos River Alluvium, version 1.01 (Ewing and Jigmond, 2016). Using the approach outlined by the TWDB, the MAGs were calculated for each county for which a DFC was adopted. MAGs are only available for Brazos, Burleson, Milam, and Robertson Counties. Non-MAG availability was determined by the TWDB for Bosque, Falls, Grimes, Hill, McLennan, and Washington counties and are estimated based on modeling done for GMA-12 or were carried over from the previous planning cycle.

Brazos River Alluvium Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Bosque*	830	830	830	830	830	830
Brazos	76,978	76,393	76,195	76,100	76,039	76,039
Burleson	32,207	32,207	32,206	32,206	32,206	32,206
Falls*	16,684	16,684	16,684	16,684	16,684	16,684
Grimes*	5,112	5,112	5,112	5,112	5,112	5,112
Hill*	632	632	632	632	632	632
McLennan*	15,023	15,023	15,023	15,023	15,023	15,023
Milam	31,375	31,366	31,362	31,359	31,358	31,358
Robertson	55,424	55,157	54,839	54,723	54,618	54,618
Washington*	5,770	5,770	5,770	5,770	5,770	5,770
Total	240,035	239,174	238,653	238,439	238,272	238,272

*Non-GAM estimate

B.3.5 Well Yields

Yields from large irrigation wells are typically between 250 and 500 gallons per minute (gpm) but can be as high as 1,000 gpm (George and others, 2011). Well yields are considerably less at the edges of the alluvium, and where there is minimal sand thickness or a considerable amount of silt and/or clay is present.

B.3.6 Water Quality

Water quality from the Brazos River Alluvium Aquifer varies widely, even within short distances. Concentrations of dissolved solids exceed 1,000 milligrams per liter (mg/L) in many areas. But overall, water quality is fresh and meets drinking water standards. Areas with dissolved solids concentrations less than 500 mg/L or greater than 3,000 mg/L are of limited extent. Local groundwater contamination from agriculture chemicals is likely in intensively irrigated areas.

B.3.7 Resource Considerations

Any extensive development of this aquifer is likely to cause some reductions of streamflow in the Brazos and Little Brazos Rivers. Counties with groundwater conservation districts in the Brazos G region include Bosque (Middle Trinity GCD), Grimes (Bluebonnet GCD), Hill (Prairielands GCD), Robertson and Brazos (Brazos Valley GCD), McLennan (Southern Trinity GCD), and Milam and Burleson (Post Oak Savannah GCD).

B.3.8 References

Cronin, J.G., and Wilson, C.A., 1967, Groundwater in the flood-plain alluvium of the Brazos River, Whitney Dam to vicinity of Richmond, Texas: TWDB Report 41.

Ewing, J.E., and Jigmond, M., 2016, Final Numerical Model Report for the Brazos River Alluvium Aquifer Groundwater Availability Model: Contract report to the Texas Water Development Board.

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Shi, J. and J. Harding, 2022, GAM Run 21-17 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 12, Texas Water Development Board Groundwater Division.

B.4 Carrizo-Wilcox Aquifer

B.4.1 Location

The Carrizo-Wilcox is a major aquifer within the Brazos G region and is of major significance in water planning due to its relatively large supply of undeveloped water. It traverses a southeastern part of the region in a northeast-southwest-trending band and extends into adjoining planning areas (Figure B-3). It occurs within the region primarily in parts of Brazos, Burleson, Lee, Limestone, Milam, and Robertson Counties.

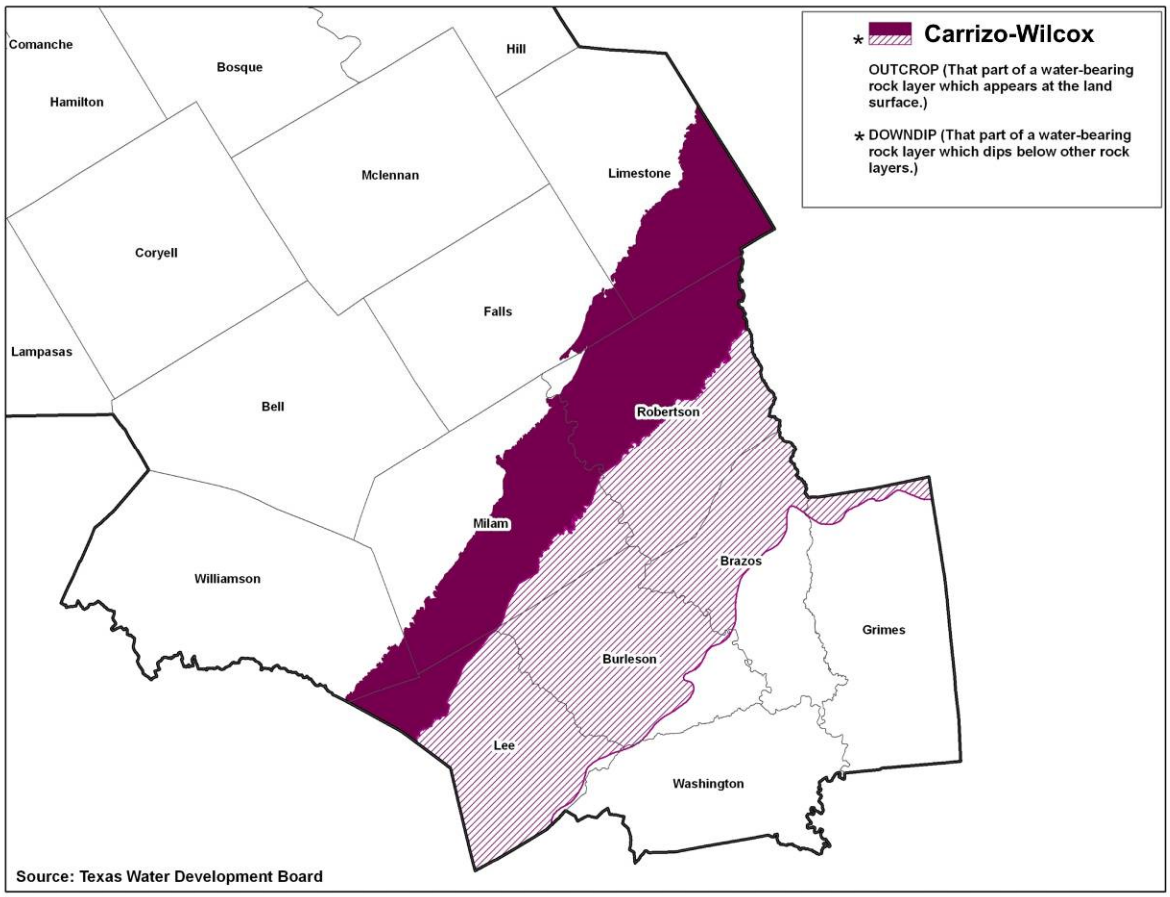

Figure B-3. Location of Carrizo-Wilcox Aquifer in Brazos G

B.4.2 Geohydrology

The Carrizo Formation and the underlying Wilcox Group, which is divided into the Calvert Bluff, Simsboro, and Hooper aquifer units, form the Carrizo-Wilcox Aquifer. The Simsboro is a major water-bearing unit across the region and also in neighboring planning areas. Between the Colorado and Trinity Rivers, the Simsboro sands are uniquely productive and are largely separated from overlying and underlying geologic units by clays of low permeability. The sands in the Simsboro and Carrizo are the two most significant water-bearing zones in the Carrizo-Wilcox. The Calvert Bluff and Hooper are generally tapped only by shallow wells and are not nearly as productive.

The Carrizo-Wilcox consists of a thick sequence of ancient river and delta deposits, consisting mostly of sand, silt, and clay. Total thickness is typically between 2,000 and 3,000 feet, and net sand thickness can exceed 50 percent of the total thickness. Some important coal (lignite) deposits occur primarily within the Calvert Bluff. From surface outcrops (recharge areas) the members of the Carrizo-Wilcox dip coastward beneath younger strata. Water table conditions occur in recharge areas and artesian conditions occur in downdip areas. Precipitation is the main source of recharge. Freshwater sands occur up to 30 miles south of recharge areas and to depths up to about 3,000 feet in the most permeable sands. Slightly saline water occurs just to the southeast (coastward) of the fresh water. Faulting within the Mexia-Talco Fault Zone occurs in an approximately 5-mile wide belt across parts of Lee, Burleson, Milam, and Robertson Counties. The faults affect position, continuity, and possibly water quality within the Carrizo-Wilcox zones in variable and mostly unknown ways.

B.4.3 Development and Use

The historic pumping in 2021 Brazos G from the Carrizo-Wilcox Aquifer was estimated to be 65,780 acft with approximately 77 percent used for municipal purposes. Relatively large amounts of water from the Carrizo-Wilcox is used by Bryan, College Station, Texas A&M, Hearne and Rockdale, several other public water suppliers, as well as some public water suppliers outside of the Brazos G region. Most of the irrigation use occurs in Milam and Robertson Counties.

B.4.4 Availability

The Carrizo-Wilcox in Brazos G primarily lies within the boundary of GMA-12; however, a small portion does extend across the northern part of Grimes County in GMA-14. In November 2022, the TWDB produced a report titled GAM Run 21-017 MAG, which includes the MAG for the Carrizo-Wilcox Aquifer in GMA-12 (Shi and Harding, 2022). The MAG volume for the Carrizo-Wilcox Aquifer was determined using the DFCs adopted by GMA-12 and the groundwater availability model for the central part of the Carrizo-Wilcox, Queen City, and Sparta aquifers, version 2.02 (Young and others, 2018; Young and Kushnereit, 2020). Using the approach outlined by the TWDB, the MAGs were calculated for each county. Non-MAG availability was determined by the TWDB for Grimes County were carried over from the previous planning cycle.

Carrizo-Wilcox Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Brazos	44,153	50,160	56,168	62,176	68,184	68,184
Burleson	56,468	65,638	69,407	69,579	69,750	69,750
Falls	46	50	56	62	69	69
Grimes*	4	4	4	4	12	4
Lee	29,283	30,948	32,683	34,517	36,187	36,187
Limestone	960	1,059	1,168	1,288	1,422	1,422
Milam	31,300	32,246	33,283	34,431	35,710	35,710
Robertson	49,164	58,979	68,795	78,609	88,424	88,424
Williamson	140	155	171	189	208	208
Total	211,518	239,239	261,735	280,855	299,966	299,958

*Non-GAM estimate

B.4.5 Well Yields

Wide variations occur in individual well yields for the four Carrizo-Wilcox hydrogeologic units, mostly depending on well depth and local sand thickness. Estimated ranges for maximum individual well yields are from 500 to 2,000 gpm for the Carrizo, from 100 to 300 gpm for the Calvert Bluff, from 500 to over 3,000 gpm for the Simsboro, and from 100 to 300 gpm for the Hooper.

B.4.6 Water Quality

Water generally meets drinking water standards, but local exceptions occur. Excessive iron concentrations is the most common water quality problem, particularly in the Carrizo, and some water supplies must be treated. Hydrogen sulfide and methane occurrences are occasionally reported. Water obtained near the outcrops of the water-bearing zones generally is higher in hardness and lower in total dissolved solids content. In downdip areas the water is commonly a sodium-bicarbonate-type water, with total dissolved solids content ranging from about 300 to 800 mg/L and averaging 400 to 500 mg/L. The dissolved solid concentrations tend to be greater at the downdip limit of the aquifer.

B.4.7 Resource Considerations

Few development problems have occurred to date. Significant water-level declines have occurred near large pumping centers. No significant pollution problems are evident. One potential impact of significant drawdown is dewatering existing shallow wells.

There are three groundwater conservation districts that oversee the development and management of the Carrizo-Wilcox Aquifer within the Brazos G region. The counties with a groundwater conservation district include; Lee (Lost Pines GCD), Robertson and Brazos (Brazos Valley GCD), and Milam and Burleson (Post Oak Savannah GCD). There are no known wells in the Carrizo-Wilcox Aquifer in Grimes County (Bluebonnet GCD).

B.4.8 References

Dutton, A.R., 1999, Assessment of groundwater availability in the Carrizo-Wilcox Aquifer in Central Texas--Results of numerical simulations of six groundwater-withdrawal projections (2000-2050), The University of Texas at Austin, Bureau of Economic Geology.

Dutton, A.R., Harden, B., Nicot, J.P., and O'Rourke, D., 2003. Groundwater availability model for the central part of the Carrizo-Wilcox Aquifer in Texas. TWDB Contract Report.

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Young, S. and R. Kushnereit, 2020, GMA 12 Update to the Groundwater Availability Model for the Central Portion of the Sparta, Queen City, and Carrizo-Wilcox Aquifers; report prepared for GMA 12

B.5 Cross-Timbers Aquifer

B.5.1 Location

The Cross Timbers Aquifer was designated as a minor aquifer in December 2017. The aquifer occurs in the Brazos G region in a band ranging in thickness from approximately 75 to 90 miles wide extending from the Red River at the Oklahoma-Texas border to the Colorado River in central Texas. With the exception of the westernmost counties, the Cross Timbers Aquifer is shown to underlie the counties of the Brazos G Upper Basin as well as portions of Hood and Lampasas County in the Brazos G Middle Basin (Figure B-4).

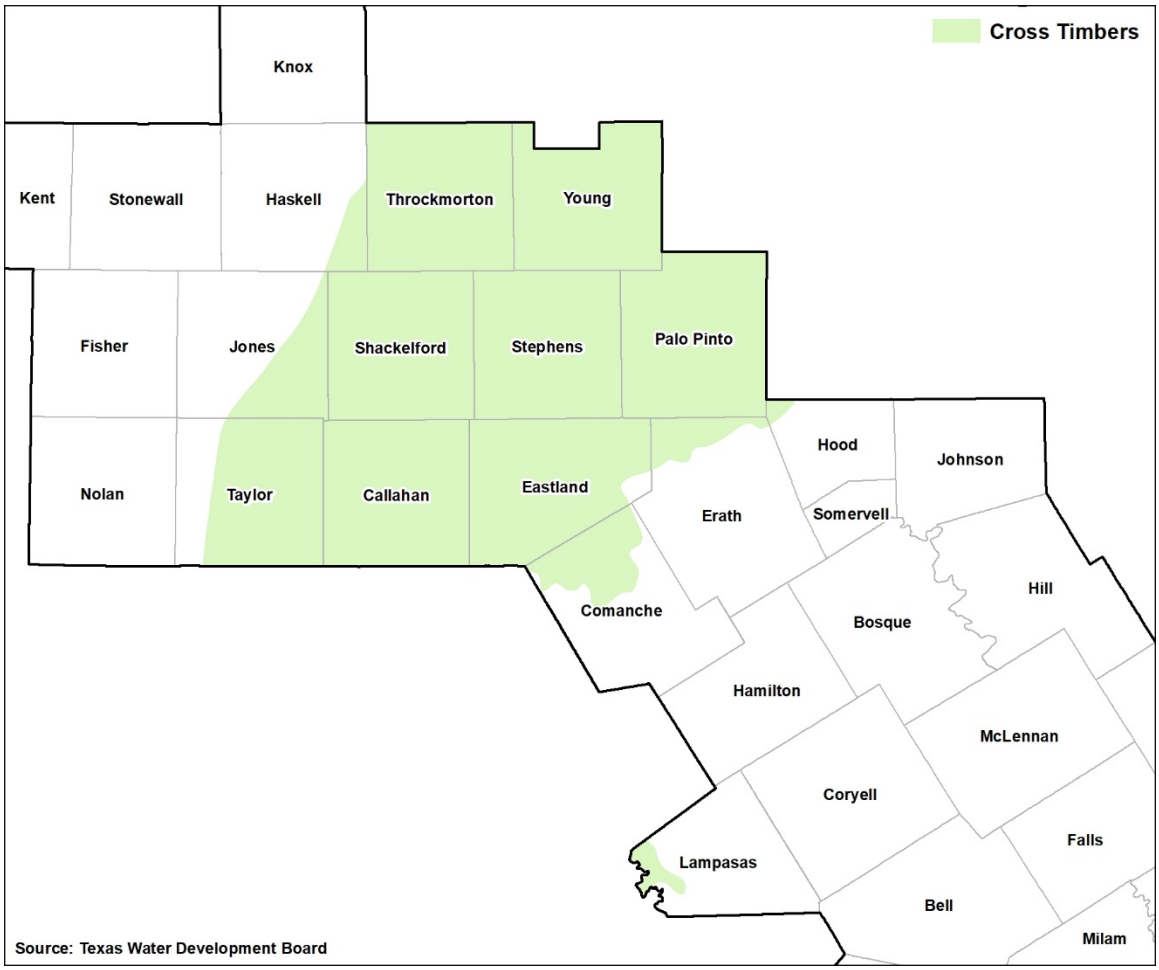

Figure B-4. Location of Cross-Timbers Aquifer in Brazos G

B.5.2 Geohydrology

Four separate formation groups comprise the Cross Timbers Aquifer; the Strawn, Canyon, Cisco-Bowie, and Wichita-Albany Groups. In general, the formation groups of the Cross Timbers Aquifer consist of limestone, shale, and sandstone which occur in layers or lenses indicating riverine and deltaic depositional environments (Ballew and French, 2019). The Strawn Group consists of shale, limestone, and sandstone with conglomerate and thin beds of coal. The Canyon Group overlays the Strawn Group and is comprised of massive too thin-bedded limestone, interbedded with shale, thin sandstone, and conglomerate. The Cisco Group, overlaying the Canyon Group, consists of shale, siltstone, sandstone, limestone, conglomerate, and some coal. The youngest of the formations, those in the Wichita Group, consists primarily of thin beds of limestone and fine grained sandstone; however, massive, saturated limestone beds have been located near the top of the group (Blandford and others, 2021; Ballew and French, 2019). Total aquifer thickness within the Brazos G region is anticipated to be one the order of 3,000 to 5,000 ft thick based on generalized cross sections (Nicot and others, 2013).

B.5.3 Development and Use

Development is mostly limited to local use for household and livestock purposes. Approximately 75 percent of the wells completed in the Cross Timbers formation are domestic wells and approximately 20 percent are stock wells (Ballew and French, 2019). The historic pumping in 2021 from the Cross Timbers Aquifer was estimated to be 66 acft, all of which is reportedly used for irrigation purposes (TWDB, 2025). However, because the Cross Timbers was only recently declared a minor aquifer, the data collection methods that are used to make estimates of historic pumping require refinement. Based on the types of wells that are present in the Cross Timbers, a significant amount of use is for domestic and livestock purposes.

B.5.4 Availability

The Cross Timbers Aquifer lies within the boundaries of GMA-6. The most recent round of planning and selection of Desired Future Conditions by each groundwater management area did not include an adopted MAG for the Cross Timbers Aquifer because a groundwater availability model is not available for this aquifer at this time. Non-MAG availability was determined by the TWDB for all counties where the Cross Timbers is present.

Cross-Timbers Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Shackelford*	712	712	712	712	712	712
Stephens*	620	620	620	620	620	620
Throckmorton*	364	364	364	364	364	364
Young*	1,018	1,018	1,018	1,018	1,018	1,018
Total*	2,714	2,714	2,714	2,714	2,714	2,714

*Non-GAM estimate

B.5.5 Well Yields

The geometry and aquifer properties vary widely within the Cross Timbers Aquifer and contribute to variability in well yields. Reported yield range as high as 57 to 189 gpm among the four formation groups with the Strawn Group being the most prolific; however, the majority of reported yields range are less than 30 to 45 gpm (Blandford and others, 2021; Ballew and French, 2019).

B.5.6 Water Quality

Groundwater produced from the Cross Timbers Aquifer ranges from fresh to brackish with high variability of water quality within and between individual formations. The majority of wells sampled are completed in the Cisco Group and were found to have total dissolved solids concentrations less than 3,000 milligrams per liter with a median concentration of 839 milligrams per liter (Ballew and French, 2019). Sample analyses from all formations in the Cross Timbers Aquifer indicate the native groundwater is mostly fresh to slightly saline. Evaluations concerning chloride concentrations (Nicot and others, 2013) indicate an average chloride concentration in the Cross Timbers Aquifer approximately twice as much as that in the adjacent Trinity Aquifer, likely influenced by surface contamination of halite dissolution.

B.5.7 Resource Considerations

Counties with groundwater conservation districts include Lampasas (Saratoga UWCD), Erath and Comanche (Middle Trinity GCD), Hood (Upper Trinity GCD), and Haskell (Rolling Plains GCD).

B.5.8 References

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TWDB, 2025, historic groundwater pumpage data accessed on February 5, 2025 at https://www.twdb.texas.gov/waterplanning/waterusesurvey/historical-pumpage.asp

B.6 Dockum Aquifer

B.6.1 Location

The Dockum is a minor aquifer that occurs only along in the far western parts of Nolan, Fisher, and Kent Counties within the Brazos G region (Figure B-5). It's important to note that there is a discrepancy in the occurrence of the Dockum as shown in Figure B-5 and in the Shamburger, 1967 report. The Shamburger report shows the Dockum extending into the mid-part of Nolan County, while the TWDB delineation is limited to the extreme western edge of the county.

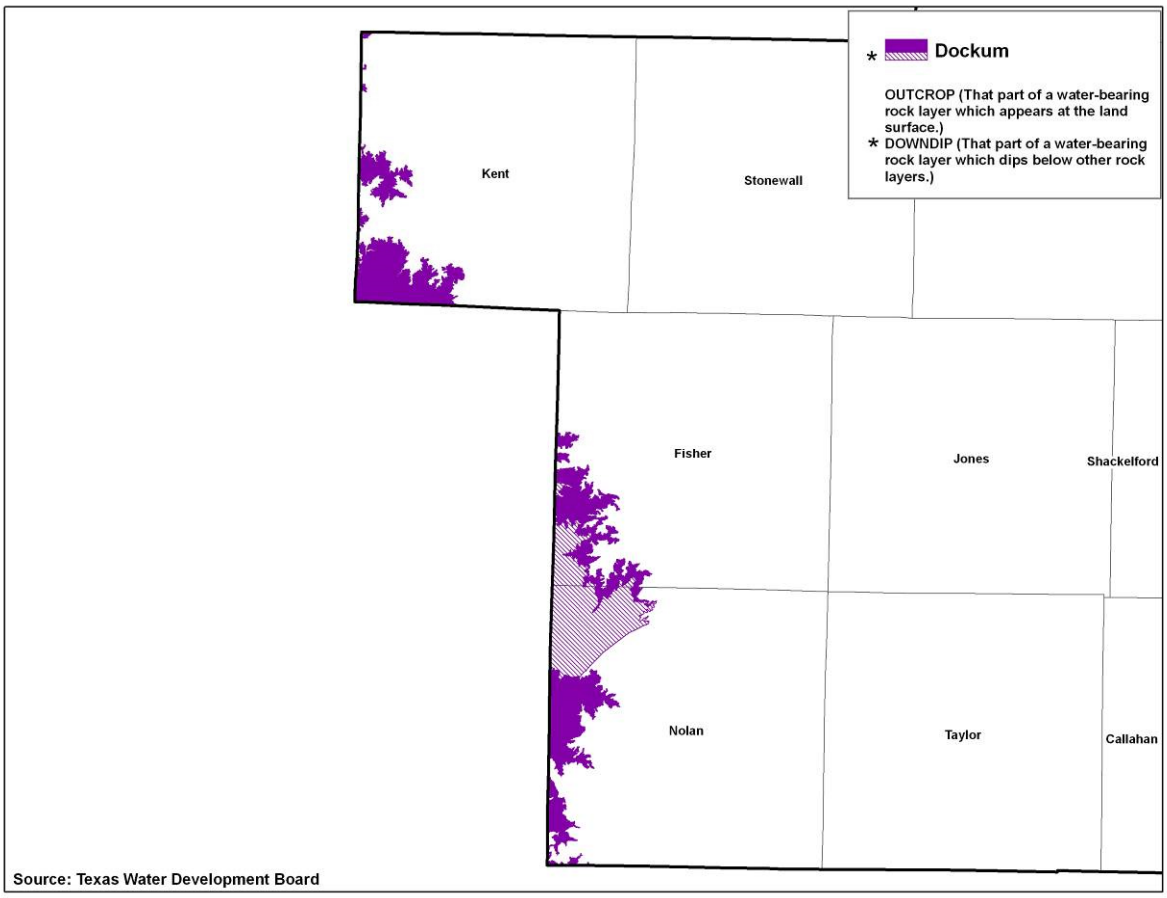

Figure B-5. Location of Dockum Aquifer in Brazos G

B.6.2 Geohydrology

Water is derived largely from sands and gravels in the Santa Rosa Formation of Permian age or from the Santa Rosa and the overlying Trinity Sands in the Brazos G region. Water table conditions mostly prevail in the Dockum Aquifer within the region.

B.6.3 Development and Use

The historic pumping in 2021 from the Dockum Aquifer within the Brazos G region was 15,700 acft. Almost 85 percent of the water produced from the Dockum Aquifer within the region is for irrigation in Nolan County.

B.6.4 Availability

The Dockum Aquifer in Brazos G is located in GMA-6 and GMA-7. In 2022 the TWDB produced two reports- GAM Run 21-011 MAG (Shi, 2022), which includes the MAGs for the Dockum Aquifer in GMA-6, and GAM Run 21-012 (Jones, 2022) which includes the MAGs for the Dockum Aquifer in GMA-7. The MAGs were determined using the DFCs adopted by GMA-6 and GMA-7 and the groundwater model of the High Plains Aquifer System (Deeds and Jigmond, 2015). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. Of the three counties in which the Dockum Aquifer is present, MAGs were only determined for Fisher County. Availability of the Dockum Aquifer in Kent and Nolan counties, as provided by the TWDB, was estimated based on modeling done for the relevant portions of the Dockum Aquifer in GMA-7. Several of the non-MAG availabilities were updated by the Brazos G technical consultant as discussed in the Technical Memorandum.

Dockum Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Fisher	79	79	79	79	79	79
Kent*	6,250	6,250	6,250	6,250	6,250	6,250
Nolan*	5,750	5,750	5,750	5,750	5,750	5,750
Total	12,079	12,079	12,079	12,079	12,079	12,079

*Non-GAM estimate

B.6.5 Well Yields and Water Quality

Well yields from the Dockum Aquifer vary widely, ranging from less than 10 gpm to 400 gpm and averaging 200 gpm within the Brazos G region. Water from the aquifer typically meets drinking water standards and contains 500 to 600 mg/L dissolved solids content. However, in heavily irrigated areas, elevated concentrations of nitrates have been reported.

B.6.6 Resource Considerations

There are three groundwater conservation districts in the Brazos G region where the Dockum Aquifer is present; Nolan County (Wes-Tex GCD), Kent County (Salt Fork UWCD), and Fisher County (Clear Fork GCD).

B.6.7 References

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Oliver, W. and Hutchinson, W.R., 2010 Modification and recalibration of the Groundwater Availability Model of the Dockum Aquifer: Texas Water Development Board, 114 p.

Shamburger, Victor M., Jr., 1967, Ground-water resources of Mitchell and Western Nolan Counties, Texas: TWDB Report 50.

B.7 Edwards (Balcones Fault Zone) Aquifer

B.7.1 Location

The Edwards (Balcones Fault Zone (BFZ)) Aquifer is a major aquifer in the Brazos G region and occurs in a narrow north-south-trending belt across parts of Williamson and Bell Counties (Figure B-6), essentially extending from Round Rock to Salado. This portion of the aquifer is the northern segment and is hydraulically separate from the Edwards (BFZ) occurring south of the Colorado River, referred to as the Barton Springs segment, and from the San Antonio segment of the Edwards (BFZ) located even further south. The northern segment of the Edwards (BFZ) appears to be overdeveloped except during average and wet times, and some supplies are subject to shortages in larger droughts.

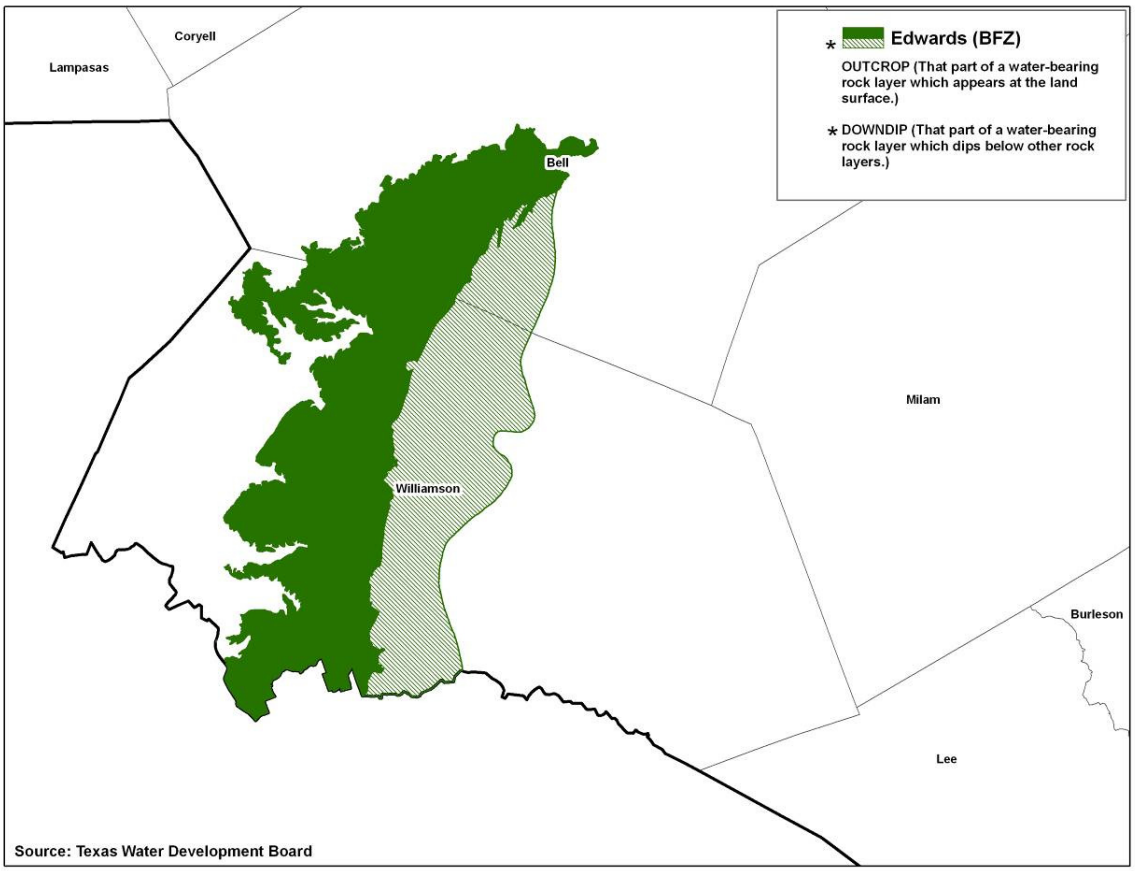

Figure B-6. Location of Edwards (BFZ) Aquifer (northern segment) in Brazos G

B.7.2 Geohydrology

The Edwards (BFZ) Aquifer consists of the Edwards and associated limestone, including the Comanche Peak, Kiamichi and Georgetown. However, significant water-bearing zones are normally restricted to the Edwards limestones, with the other associated limestones commonly yielding little to no water according to test drilling records (Harden, 1999). The source of the water is infiltration of rainfall and seepage from streams. The water moves primarily in honeycombed, solution-enlarged voids and other enlarged secondary porosity zones along joints and faults. The formation dips to the east beneath younger strata. Water table conditions occur in recharge areas (mostly west of IH-35), and artesian conditions occur further east. At the eastern boundary of the aquifer the water quality becomes more mineralized and eventually unusable for most purposes. The water moves from recharge areas to natural spring discharge points and to wells. The three largest springs (and their approximate high and low flows) include San Gabriel Springs at Georgetown (zero to 25 cubic feet per second (cfs)), Berry Springs north of Georgetown (zero to 48 cfs) and Salado Springs at Salado (5 to 59 cfs). The Edwards (BFZ) Aquifer responds more quickly than most other aquifers to drought and wet climatic cycles. With adequate rainfall, the aquifer is able to supply substantial water to current users and sustain substantial springflow at the three main locations. In times of below-average rainfall or drought, discharge exceeds recharge and most springflow decreases greatly or completely dries up, and some wells begin to fail. Over the years more and more wells have been drilled, resulting in increasingly diminished springflow. Introduction of surface water supplies to the area has slowed the trend, but competition for Edwards (BFZ) water in the area is continuing.

B.7.3 Development and Use

The historic pumping in 2021 from the Edwards (BFZ) Aquifer within the Brazos G region totaled 16,958 acft. Approximately 88 percent of the water is used for municipal supply, of which about 90 percent occurs in Williamson County.

B.7.4 Availability

The Edwards (BFZ) Aquifer in Brazos G is in GMA-8. In November 2022, the TWDB produced a report titled GAM Run 21-013 MAG, which includes the MAG for the Edwards (BFZ) Aquifer in GMA-8 (Shi and Harding, 2022). Groundwater Management Area 8 requested that the results from the first round of joint groundwater planning, documented in GAM Run 08-010 MAG (Anaya, 2008), be used-unchanged- for the current round of joint planning. The MAGs are presented in the following table.

Edwards (BFZ) Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Bell	6,469	6,469	6,469	6,469	6,469	6,469
Williamson	3,452	3,452	3,452	3,452	3,452	3,452
Total	9,921	9,921	9,921	9,921	9,921	9,921

B.7.5 Well Yields

Wide variations occur in individual well yields obtainable from the Edwards (BFZ). Well yields depend upon boreholes encountering secondary, solution-enlarged openings in the limestone. Wells used for public supply range from 200 to about 2,000 gpm.

B.7.6 Water Quality

Water, although hard, meets drinking water standards with dissolved solids content mostly less than 500 mg/L in developed areas. Further east, the water becomes more mineralized. The fluoride content is high in some of the downdip eastern areas.

B.7.7 Resource Considerations

Groundwater resources appear to be overdeveloped, resulting in decreased or zero springflow and low water levels in wells during drought conditions. Existing local plans of the larger users have long included conjunctive use plans with surface waters from Lakes Georgetown, Travis, and/or Stillhouse Hollow. Significant groundwater pumpage can reduce springflow, and the aquifer is locally subject to pollution from surface sources. The higher withdrawals by wells can directly affect springflow and downstream surface water supplies. A groundwater district exists in Bell County (Clearwater UWCD).

B.7.8 References

Anaya, R., 2008, GAM Run 08-010 MAG: Managed available groundwater for the Edwards (Balcones Fault Zone) Aquifer in Bell, Travis, and Williamson Counties. Texas Water Development Board Groundwater Division.

Duffin, G.L., and Musick, S.P., 1991, Evaluation of water resources in Bell, Burnet, Travis, Williamson, and parts of adjacent counties, Texas: TWDB Report 326.

Harden, R. W., 1999, personal communication.

Jones, I.C., 2003, Groundwater Availability Model: Northern Segment of the Edwards Aquifer, Texas: TWDB Report 358.

Kreitler, C.W., Senger, R.K., and Collins, E.W., 1987, Geology and hydrology of the northern segment of the Edwards aquifer with an emphasis on the recharge zone in the Georgetown, Texas, area: Prepared for the Texas Water Development Board, IAC (86-67)-1046; Univ. of Texas, Bureau of Economic Geology.

Shi, J. and J. Harding, 2022, GAM Run 21-013 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 8, Texas Water Development Board Groundwater Division.

William F. Guyton Associates, Inc., 1987, Ground-water availability update: consulting report to City of Georgetown.

Yelderman, Joe C., 1987, Hydrogeology of the Edwards Aquifer, Northern Balcones and Washita Prairie Segments: Austin Geological Society Guidebook 11.

B.8 Edwards-Trinity (Plateau) Aquifer

B.8.1 Location

The Edwards-Trinity (Plateau) Aquifer is a major aquifer in Texas due to its expansive coverage and large available water supplies. In the Brazos G region, this aquifer is present only in parts of Nolan and Taylor Counties (Figure B-7), where it provides only a very small water supply to the planning region.

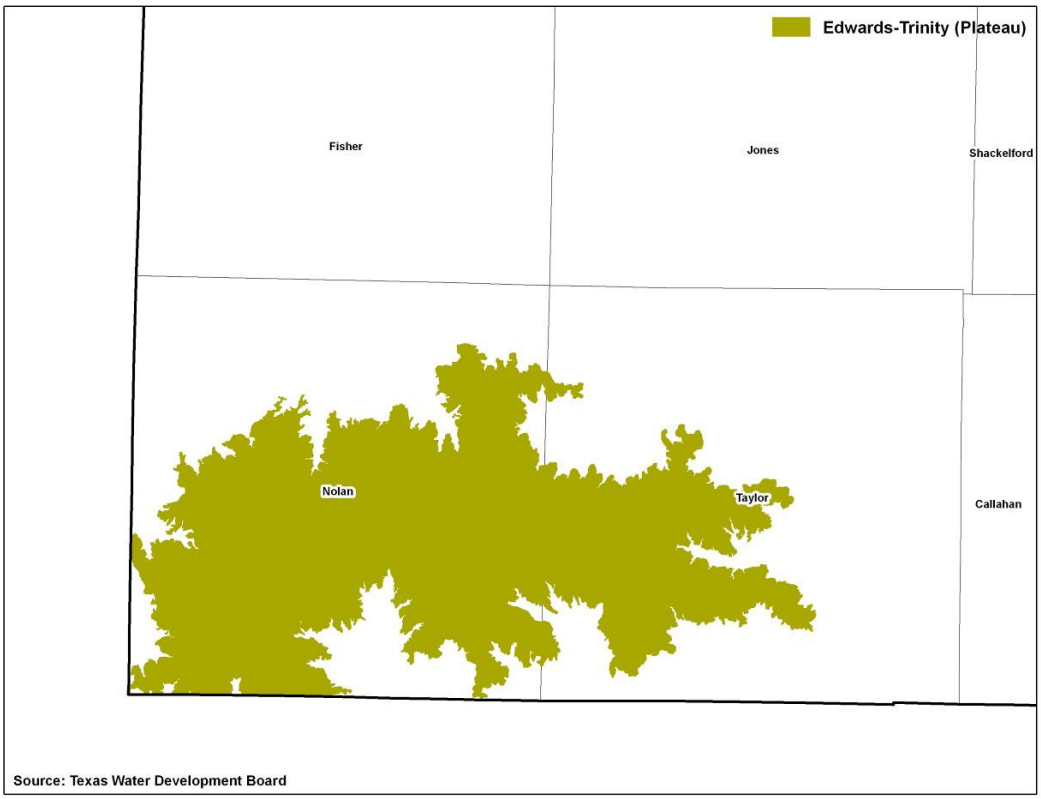

Figure B-7. Location of Edwards-Trinity (Plateau) Aquifer in Brazos G

B.8.2 Geohydrology

Water from the Edwards-Trinity (Plateau) Aquifer is derived largely from Cretaceous Trinty sands in Nolan County in combination with the underlying Dockum, where present. Water-table conditions are typical. Maximum well yields typically are less than 50 gallons per minute. In western Nolan County, much of the water production is associated with the Edwards-Trinity (Plateau) because of the surface geology, but the major water-bearing zone of higher capacity wells is the underlying Dockum.

B.8.3 Development and Use

The historic pumping in 2021 from the Edwards-Trinity (Plateau) Aquifer within the Brazos G region totaled 318 acft. Most of the groundwater produced from the aquifer in the region is used for irrigation and livestock supply, which account for more than 80 percent of the total pumping. The remaining water is used for municipal supply, mostly in Nolan County.

B.8.4 Availability

The Edwards-Trinity (Plateau) Aquifer in Brazos G is divided between GMA-7 and GMA-8. In 2022 the TWDB produced two reports- GAM Run 21-013 MAG (Shi and Harding, 2022), which includes the MAGs for the Dockum Aquifer in GMA-8, and GAM Run 21-012 (Jones, 2022) which includes the MAGs for the Dockum Aquifer in GMA-7. The MAGs were determined using the DFCs adopted by GMA-7 and GMA-8 and the groundwater model of the single-layer alternative groundwater flow model for the Edwards-Trinity (Plateau) and Pecos Valley aquifers (Hutchinson and Others, 2011) which is an update to the previously developed groundwater availability model (Anaya and Jones, 2009). No DFCs were adopted for the Edwards-Trinity (Plateau) Aquifer in GMA-8. In lieu of this, non-MAG groundwater availability in Nolan County was estimated by the TWDB based on modeling done by GMA-7.

Edwards-Trinity (Plateau) Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Nolan*	693	693	693	693	693	693
Taylor	489	489	489	489	489	489
Total	1,182	1,182	1,182	1,182	1,182	1,182

*Non-GAM estimate

B.8.5 Well Yields and Water Quality

Potential well yields are typically less than 100 gpm. Groundwater from the Edwards-Trinity (Plateau) Aquifer generally contains 400 to 500 mg/L dissolved solids content, which meets drinking water standards.

B.8.6 Resource Consideration

Most of the groundwater pumping from the Edwards-Trinity (Plateau) Aquifer is for irrigation and livestock purposes. A small amount is used for municipal purposes in Nolan County. Few undeveloped supplies appear available, and existing supplies appear to be susceptible to droughts.

Groundwater in Nolan County is regulated by Wes-Tex GCD.

B.8.7 References

Anaya, R. and Jones, I., 2004, Groundwater availability model of the Edwards-Trinity (Plateau) and Cenozoic Pecos Alluvium Aquifer systems, Texas: Texas Water Development Board.

Anaya, R., and Jones, I.C., 2009, Groundwater Availability Model for the Edwards-Trinity (Plateau) and Pecos Valley Aquifers of Texas. Texas Water Development Board Report 373.

Hutchinson, W.R., Jones, I.C., Anaya, R., 2011, Update of the Groundwater Availability Model for the Edwards-Trinity (Plateau) and Pecos Valley Aquifers of Texas.

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Taylor, Howard D., 1978, Occurrence, Quantity, and Quality of Ground Water in Taylor County, Texas: TWDB Report 224.

Shamburger, Victor M., Jr., 1967, Ground-Water Resources of Mitchell and Western Nolan Counties, Texas: TWDB Report 50.

Shi, J. and J. Harding, 2022, GAM Run 21-013 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 8, Texas Water Development Board Groundwater Division.

B.9 Ellenburger-San Saba Aquifer

B.9.1 Location

The Ellenburger-San Saba Aquifer is a minor aquifer that occurs in the Brazos G region, but only in the southwestern part of Lampasas County (Figure B-8). It primarily occurs in adjacent planning area to the south and west.

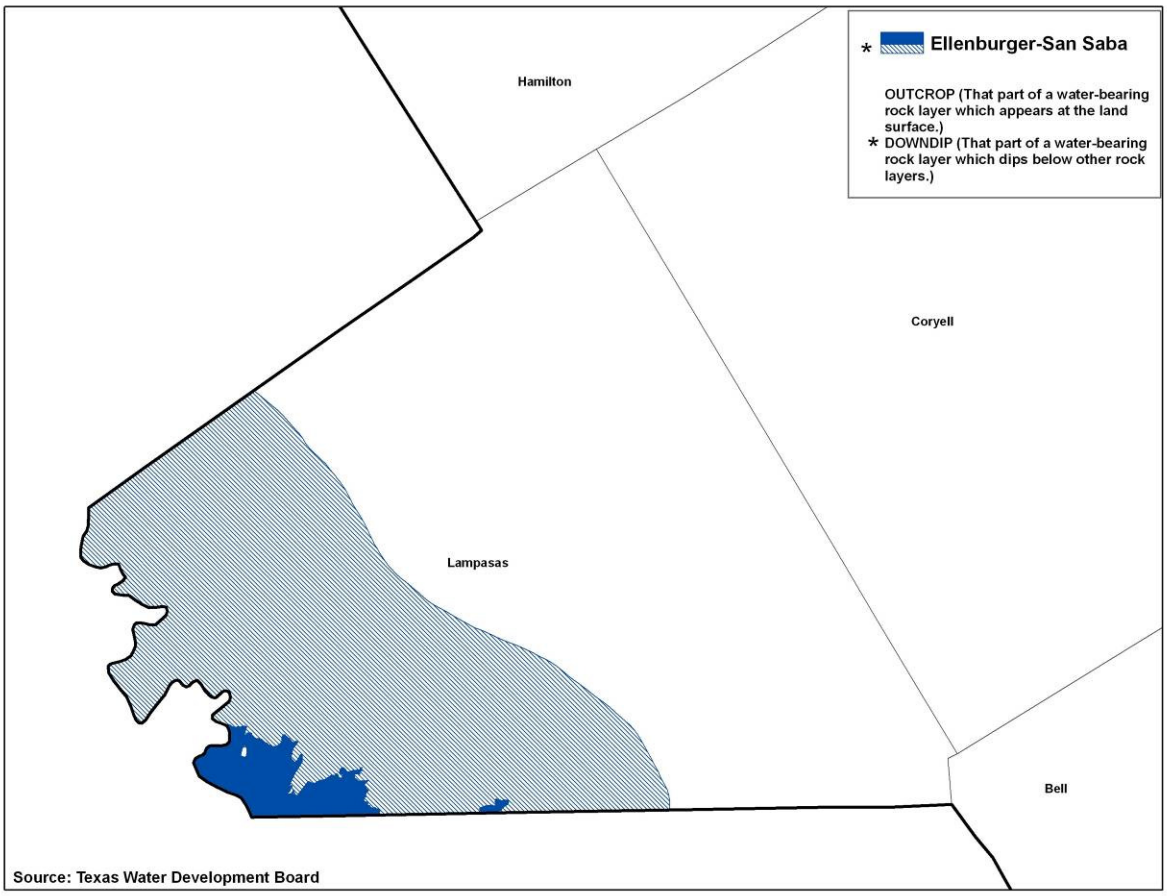

Figure B-8. Location of Ellenburger-San Saba Aquifer in Brazos G

B.9.2 Geohydrology

The Ellenburger-San Saba Aquifer consists of limestone and dolomites with secondary solutioning along fractures and faults. The aquifer extends from outcrops and dips to depths of perhaps 2,000 feet. Little is known about conditions in the deeper parts of the aquifer. In some areas the aquifer is believed to be connected to the Marble Falls Aquifer. Faults are believed to function as an important part in controlling groundwater flow and water levels. The aquifer supports numerous springs, is lightly used, and usually has less than 1,000 mg/L dissolved solids.

B.9.3 Development and Use

In 2021, the TWDB estimated pumpage of the Ellenburger-San Saba Aquifer in Brazos G to be 22 acft with approximately two-thirds of the use being for livestock and the remaining one-third for municipal use.

B.9.4 Availability

The Ellenburger-San Saba Aquifer in Brazos G is in GMA-8. In November 2022, the TWDB produced a report titled GAM Run 21-013 MAG, which includes the MAG for the Ellenburger-San Saba Aquifer in GMA-8 (Shi and Harding, 2022). The MAGs were determined using the DFCs adopted by GMA-8 and the groundwater model of the groundwater availability model for the minor aquifers in the Llano Uplift region of Texas (Shi and Others, 2016). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. The MAGs are presented in the following table.

Ellenburger-San Saba

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Lampasas	2,595	2,595	2,595	2,595	2,595	2,595
Total	2,595	2,595	2,595	2,595	2,595	2,595

B.9.5 Resource Considerations

The extent of the Ellenburger-San Sabe Aquifer in the Brazos G region is very limited. The Saratoga Underground Water Conservation District manages groundwater in Lampasas County.

B.9.6 References

Bluntzer, R.L., 1992, Evaluation of the ground-water resources of the Paleozoic and Cretaceous aquifers in the Hill Country of Central Texas: TWDB Report 339.

Preston, R.D., Pavlicek, D.J., Bluntzer, R.L., Derton, J., 1996, The Paleozoic and related aquifers of Central Texas: TWDB Report 346.

Williams, C.R., 2008. Adopted desired future conditions of the Ellenburger-San Saba, Hickory, and Marble Falls Aquifers: Memorandum dated June 9, 2008 and directed to Cheryl Maxwell, Administrative Agent for Groundwater Management Area 8.

Shi, J., Boghici, R., Kohlrenken, W., and Hutchinson, W.R., 20216, Numerical Model Report: Minor Aquifers of the Llano Uplift Region of Texas (Marble Falls, Ellenburger-San Saba, and Hickory).

Shi, J. and J. Harding, 2022, GAM Run 21-013 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 8, Texas Water Development Board Groundwater Division.

B.10 Gulf Coast Aquifer

B.10.1 Location

The Gulf Coast Aquifer is a major aquifer that occurs in a limited area in the southeastern part of the Brazos G region (Figure B-9). It occurs in a northeast-southwest-trending band and extends into adjoining planning areas. In the region the aquifer is present primarily in Washington and in the southern two-thirds of Grimes Counties. A small part of the aquifer exists in the extreme southernmost part of Brazos County but is not considered to be sufficiently productive for regional planning purposes.

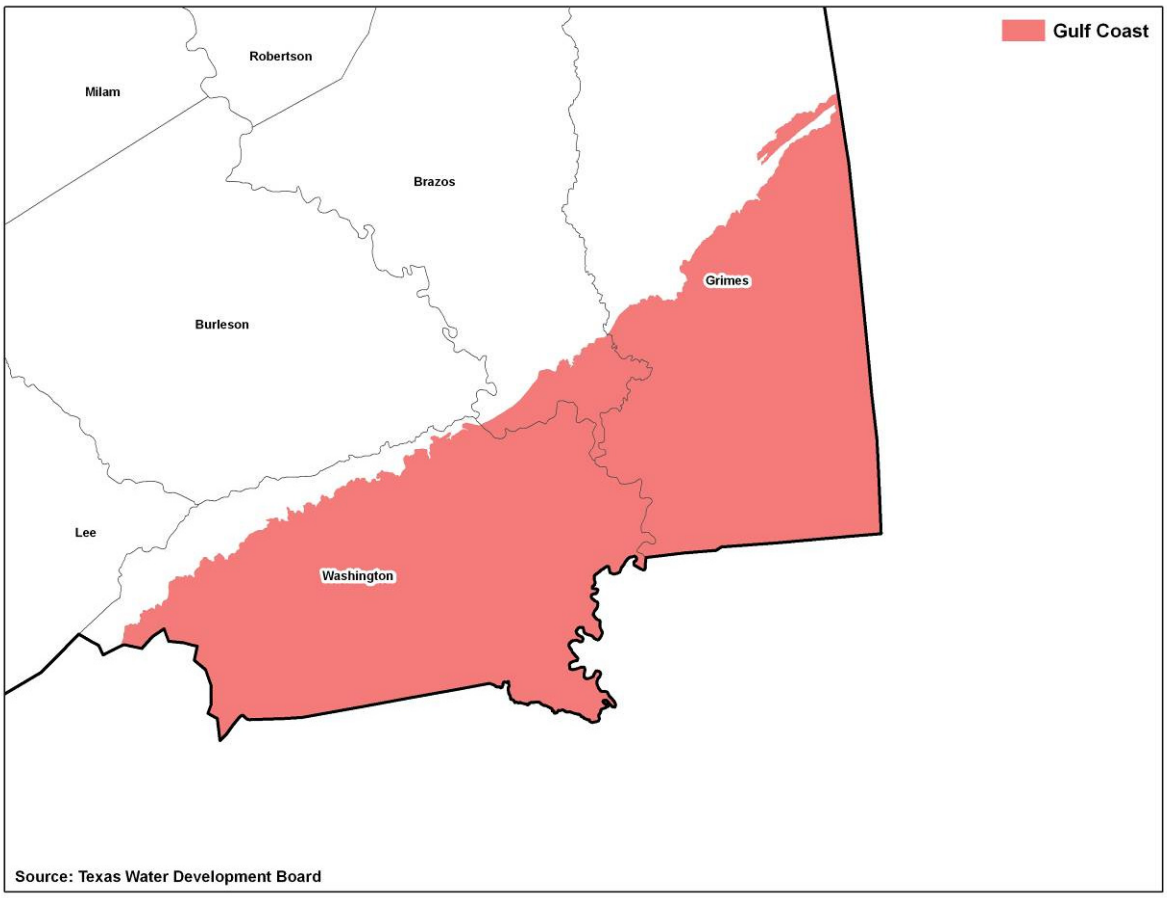

Figure B-9. Location of Gulf Coast Aquifer in Brazos G

B.10.2 Geohydrology

The Gulf Coast Aquifer consists primarily of four water-bearing zones; the Catahoula, Jasper, Evangeline, and Chicot aquifers. The deepest of these aquifers is the Catahoula, which is sometimes considered to be a part of the Jasper. The Catahoula is overlain by the Jasper Aquifer, which is present mostly within the Oakville Sandstone. The Burkeville confining layer separates the Jasper from the overlying Evangeline Aquifer, which is contained within the Fleming and Goliad Sands. The Chicot Aquifer overlies the Evangeline and is the uppermost aquifer of the Gulf Coast Aquifer. The Chicot consists of the Lissie, Willis and younger formations.

The water-bearing zones present consist of a complex sequence of ancient river and delta deposits, consisting mostly of interbedded and interfingering sands, silts and clays which thicken coastward. The strata form a leaky artesian aquifer system of large extent along the Texas Coastal Plain. Total thickness of the Gulf Coast Aquifer in the Brazos G region is up to 1,200 feet, with net sand thicknesses up to about 20 percent of the total thickness. From surface outcrops (recharge areas) the formations dip coastward beneath younger strata. Water table conditions occur in recharge areas and artesian conditions occur in downdip areas. Precipitation is the main source of recharge, and discharge is mostly to wells. Groundwater in the Gulf Coast Aquifer in Brazos G is mostly fresh. However, some slightly saline water sands occur in the deeper extents of the Catahoula.

B.10.3 Development and Use

The historic pumping in 2021 groundwater from the Gulf Coat Aquifer within the Brazos G region totaled 4,619 acft. Approximately 85 percent of the water was used for municipal and manufacturing supply.

B.10.4 Availability

The Gulf Coast Aquifer in Brazos G is primarily within GMA-14, though a small portion of the aquifer extends into southernmost part of Brazos County in GMA-12. In November 2022, the TWDB produced a report titled GAM Run 21-019 MAG, which includes the MAG for the Gulf Coast Aquifer in GMA-14 (Wade, 2022). The MAGs for the Gulf Coast Aquifer were determined using the DFCs adopted by GMA-14 and the groundwater availability model for the northern part of the Gulf Coast Aquifer System, Version 3.01 (Kasmarek, 2013). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. No DFC was adopted for the Gulf Coast Aquifer in GMA-12. Non-MAG availability was determined by the TWDB for Brazos County and was based on modeling done for GMA-14.

Gulf Coast Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Brazos*	1,189	1,189	1,189	1,189	1,189	1,189
Grimes	51,487	51,487	51,487	51,487	51,487	51,487
Washington	40,397	40,397	40,397	40,397	40,397	40,397
Total	93,073	93,073	93,073	93,073	93,073	93,073

*Non-GAM estimate

B.10.5 Well Yields

Wide variations occur in individual well yields obtainable from the primary water-bearing sands, depending on area, depth, and local sand thickness. Estimated ranges for maximum individual well yields are 300 to 800 gpm.

B.10.6 Water Quality

Water quality from the Gulf Coast Aquifer in the Brazos G region generally meets drinking water standards, but local exceptions occur. Iron content is occasionally a problem. Waters obtained near the outcrops of the water-bearing zones are generally higher in hardness and lower in total dissolved solids content. In downdip areas the water is commonly a calcium-bicarbonate-type water, with total dissolved solids content ranging up to 1,000 mg/L.

B.10.7 Resource Considerations

Groundwater resources in the Gulf Coast Aquifer in the Brazos G region are largely undeveloped. Few development problems have occurred to date and water-level declines are minimal to none. Few and limited water quality problems are apparent. Counties with groundwater conservation districts include; Grimes (Bluebonnet GCD) and Brazos (Brazos Valley GCD).

B.10.8 References

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Baker, E.T., Jr., 1979, Stratigraphic and hydrogeologic framework of part of the Coastal Plain of Texas: TDWR Report 236.

Kasmarek, M.C., 2013, Hydrogeology and Simulation of Groundwater Flow and Land-Surface Subsidence in the Northern Part of the Gulf Coast Aquifer System, Texas: USGS Scientific Report 2012-5154.

Muller, Daniel A., and Price, Robert D., 1979, Ground-water availability in Texas: TDWR Report 238.

Sandeen, W.M., 1972, Ground-water resources of Washington County, Texas: TWDB Report 162.

Wade, S.C., 2022, GAM Run 21-019 MAG: Modeled Available Groundwater for the Aquifers in the Gulf Coast Aquifer System in Groundwater Management Area 14, Texas Water Development Board Groundwater Division.

B.11 Hickory Aquifer

B.11.1 Location

The Hickory Aquifer is a minor aquifer that occurs in the southwest half of Lampasas County and the western tip of Williamson County in the Brazos G region. The aquifer primarily occurs in an adjacent planning area to the south and west of Brazos G.

B.11.2 Geohydrology

The Hickory Aquifer consists of sandstones which dip northeast away from the Llano Uplift. No pumpage is reported in Brazos G in TWDB water use survey for year 2021, and no Hickory wells are known to exist within the region. Geophysical log data suggest that the aquifer is deeper than 3,500 feet in the Brazos G region.

B.11.3 Development and Use

Water-bearing properties in the region are unknown, and water quality with excessive radiological parameters is likely. For these reasons, the Hickory Aquifer is not considered in planning for the Brazos G region.

The Saratoga Underground Water Conservation District encompasses Lampasas County.

B.11.4 Availability

The Hickory Aquifer in Brazos G is in GMA-8. In November 2022, the TWDB produced a report titled GAM Run 21-013 MAG, which includes the MAG for the Hickory Aquifer in GMA-8 (Shi and Harding, 2022). The MAGs were determined using the Desired Future Conditions (DFCs) adopted by GMA-8 and the groundwater model of the groundwater availability model for the minor aquifers in the Llano Uplift region of Texas (Shi and Others, 2016). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. The non-MAG availability for Williamson County is zero. The MAGs are presented in the following table.

Hickory Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Lampasas	113	113	113	113	113	113
Total	113	113	113	113	113	113

B.11.5 References

Bluntzer, R.L., 1992, Evaluation of the ground-water resources of the Paleozoic and Cretaceous aquifers in the Hill Country of Central Texas: TWDB Report 339.

Preston, R.D., Pavlicek, D.J., Bluntzer, R.L., Derton, J., 1996, The Paleozoic and related aquifers of Central Texas: TWDB Report 346.

Shi, J., Boghici, R., Kohlrenken, W., and Hutchinson, W.R., 20216, Numerical Model Report: Minor Aquifers of the Llano Uplift Region of Texas (Marble Falls, Ellenburger-San Saba, and Hickory).

Shi, J. and J. Harding, 2022, GAM Run 21-013 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 8, Texas Water Development Board Groundwater Division.

Williams, C.R., 2008. Adopted desired future conditions of the Ellenburger-San Saba, Hickory, and Marble Falls Aquifers: Memorandum dated June 9, 2008 and directed to Cheryl Maxwell, Administrative Agent for Groundwater Management Area 8.

B.12 Marble Falls Aquifer

B.12.1 Location

The Marble Falls Aquifer is a minor aquifer that occurs in the Brazos G region only in Lampasas County (Figure B-10). It primarily occurs in an adjacent planning area to the south and west.

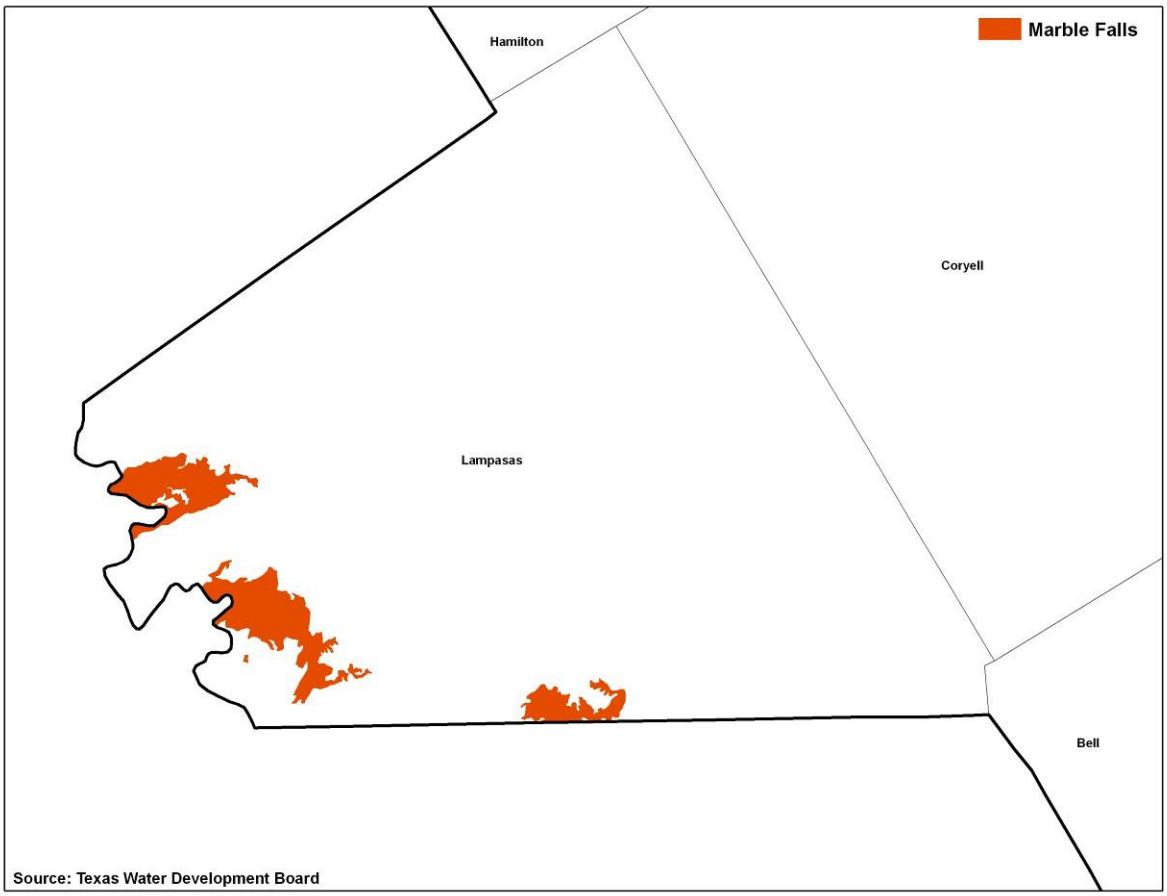

Figure B-10. Location of Marble Falls Aquifer in Brazos G

B.12.2 Geohydrology

The Marble Falls Aquifer occurs in discontinuous outcrops in the southwestern part of Lampasas County. Water occurs in secondary solution fractures, cavities and channels in the Marble Falls Limestone. The aquifer is connected to the Ellenburger-San Saba Aquifer where intervening beds are thin or absent and via faults. The aquifer supports numerous springs. The larger ones include the springs at Lampasas, which average about 9 cfs.

B.12.3 Development and Use

The TWDB estimates the historic pumping within Brazos G Region for year 2021 at 13 acft, of which 5 acft was for municipal use.

B.12.4 Availability

The Marble Falls Aquifer in Brazos G is in GMA-8. In November 2022, the TWDB produced a report titled GAM Run 21-013 MAG, which includes the MAG for the Marble Falls Aquifer in GMA-8 (Shi and Harding, 2022). The MAGs were determined using the DFCs adopted by GMA-8 and the groundwater model of the groundwater availability model for the minor aquifers in the Llano Uplift region of Texas (Shi and Others, 2016). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. The MAGs are presented in the following table.

Marble Falls Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Lampasas	2,839	2,839	2,839	2,839	2,839	2,839
Total	2,839	2,839	2,839	2,839	2,839	2,839

B.12.5 Well Yields and Water Quality

Aquifer use is limited to shallow, small wells. Water quality is suitable for most purposes near the outcrop area.

B.12.6 Resource Considerations

Groundwater resources in Lampasas County are regulated by the Saratoga Underground Water Conservation District.

B.12.7 References

Bluntzer, R.L., 1992, Evaluation of the ground-water resources of the Paleozoic and Cretaceous aquifers in the Hill Country of Central Texas: TWDB Report 339.

Muller, Daniel A., and Price, Robert D., 1979, Ground-water availability in Texas: TDWR Report 238.

Preston, R.D., Pavlicek, D.J., Bluntzer, R.L., Derton, J., 1996, The Paleozoic and related aquifers of Central Texas: TWDB Report 346.

Shi, J., Boghici, R., Kohlrenken, W., and Hutchinson, W.R., 20216, Numerical Model Report: Minor Aquifers of the Llano Uplift Region of Texas (Marble Falls, Ellenburger-San Saba, and Hickory).

Shi, J. and J. Harding, 2022, GAM Run 21-013 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 8, Texas Water Development Board Groundwater Division.

Williams, C.R., 2008. Adopted desired future conditions of the Ellenburger-San Saba, Hickory, and Marble Falls Aquifers: Memorandum dated June 9, 2008 and directed to Cheryl Maxwell, Administrative Agent for Groundwater Management Area 8.

B.13 Queen City Aquifer

B.13.1 Location

The Queen City Aquifer is a minor aquifer that occurs in the southeastern part of the Brazos G region and in adjoining planning areas. It forms a northeast-southwest-trending band primarily across parts of Robertson, Brazos, Grimes, Milam, Burleson and Lee Counties (Figure B-11).

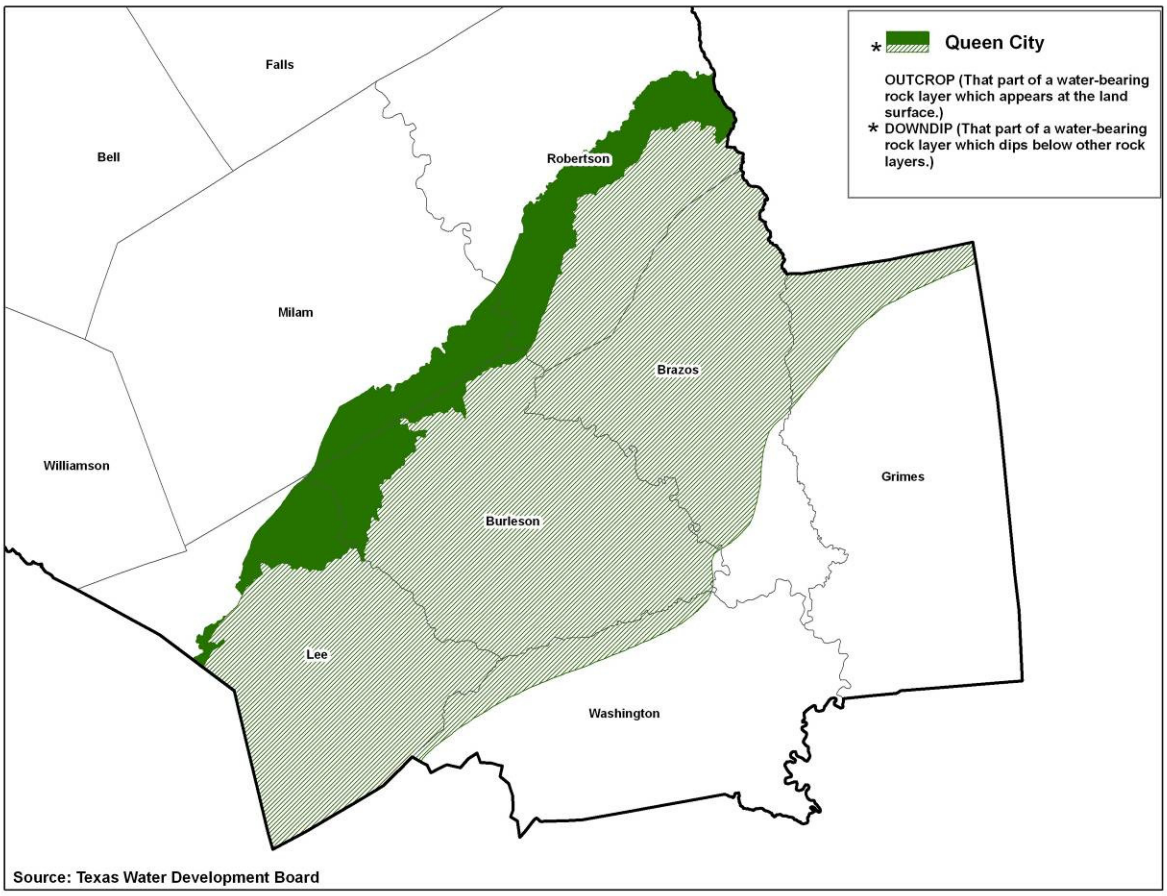

Figure B-11. Location of Queen City Aquifer in Brazos G

B.13.2 Geohydrology

The water-bearing zones in the Queen City Aquifer consist of sands interbedded with silts and clays. Total sand thickness ranges up to 300 feet. From their surface outcrop (recharge area) the sands dip coastward beneath younger strata. Freshwater occurs to depths up to 2,000 feet or more. Water table conditions occur in recharge areas, and artesian conditions exist in downdip areas. Precipitation and vertical leakage are the main sources of recharge.

B.13.3 Development and Use

The historic pumping in 2021 from the Queen City Aquifer within the Brazos G region totaled 2,362 acft. About 28 percent of that use occurred in Lee County followed by Milam (26%), Robertson (24%), and Burleson (20%) counties. Approximately 59 percent of the total pumping from the Queen City Aquifer was used for irrigation and 25 percent for municipal use. The relatively small use is partly due to the presence and development of the Sparta Aquifer at shallower depths over most of the area where the Queen City is present and the large amount of groundwater in the Carrizo-Wilcox Aquifer available beneath the Queen City.

B.13.4 Availability

The Queen City in Brazos G primarily lies within the boundary of GMA-12; however, a small portion does extend across the northern part of Grimes and Washington counties in GMA-14. In November 2022, the TWDB produced a report titled GAM Run 21-017 MAG, which includes the MAG for the Queen City Aquifer in GMA-12 (Shi and Harding, 2022). The MAG volume for the Queen City Aquifer was determined using the DFCs adopted by GMA-12 and the groundwater availability model for the central part of the Carrizo-Wilcox, Queen City, and Sparta aquifers, version 2.02 (Young and others, 2018; Young and Kushnereit, 2020). Using the approach outlined by the TWDB, the MAGs were calculated for each county within GMA-12. Non-MAG availability was determined by the TWDB to be zero for Grimes and Washington counties. The MAGs are presented in the following table.

Queen City Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Brazos	245	357	469	582	694	694
Burleson	3,090	3,467	3,883	4,344	4,863	4,863
Lee	700	767	839	917	1,000	1,000
Milam	1,348	1,643	2,003	2,441	2,976	2,976
Robertson	144	252	359	467	575	575
Total	5,527	6,486	7,553	8,751	10,108	10,108

B.13.5 Well Yields

Estimated ranges for maximum individual well yields are 200 to 500 gpm. Wide variations can occur in individual well yields obtainable from the Queen City sands, depending on area, depth and local sand thickness.

B.13.6 Water Quality

Water quality in the Queen City Aquifer in the Brazos G region typically meets drinking water standards, except for iron. High iron content is a common, but treatable, problem. Hydrogen sulfide and methane gas are reported occasionally. Water obtained near the outcrops of the water-bearing zones generally is higher in hardness and lower in total dissolved solids content. In downdip areas the water is commonly a calcium/sodium- or sodium-bicarbonate-type water with total dissolved solids content ranging from 300 mg/L up to 1,000 mg/L or more.

B.13.7 Resource Considerations

Groundwater resources are partly undeveloped, and few development problems have occurred to date. Water level declines are minimal to none. Few and limited water pollution problems are apparent. Counties with groundwater districts include; Grimes (Bluebonnet GCD), Robertson and Brazos (Brazos Valley GCD), Lee (Lost Pines GCD), and Milam and Burleson (Post Oak Savannah GCD).

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B.14 Seymour Aquifer

B.14.1 Location

The Seymour Aquifer is classified as a major aquifer in Texas and occurs in scattered, isolated areas in the western part of the Brazos G region and in three other planning areas in north Texas. The Seymour is a shallow, alluvial aquifer used almost exclusively for irrigation.

The largest area of the Seymour Aquifer in the Brazos G region is in Haskell and Knox Counties where nearly 90 percent of the Seymour pumpage in Brazos G occurs. Other scattered areas of the aquifer extend over parts of Jones, Fisher, Kent, Stonewall, and Throckmorton Counties (Figure B-12). While the Seymour has a large surficial extent in these four counties, the aquifer generally has a relatively thin saturated thickness, is less productive, and does not support widespread irrigation as it does in Knox and Haskell Counties.

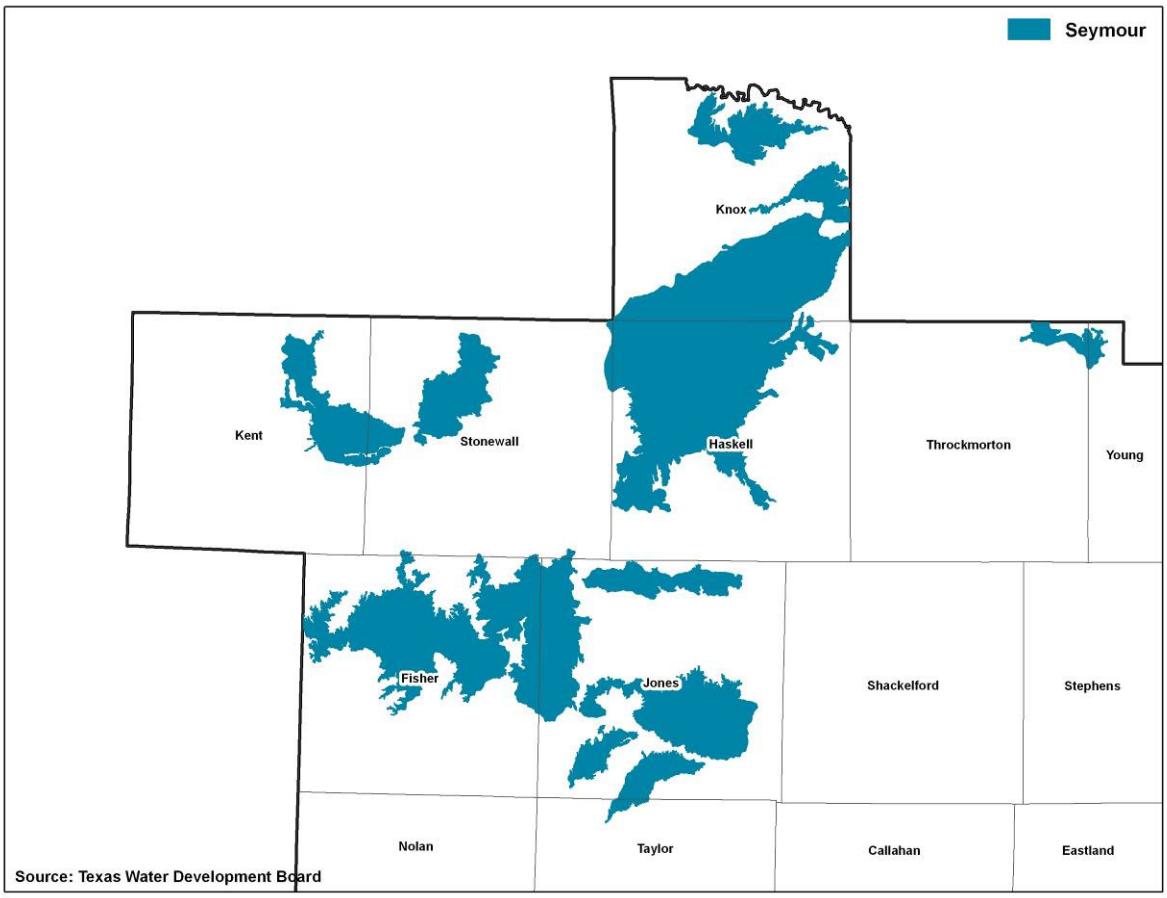

Figure B-12. Location of Seymour Aquifer in Brazos G

B.14.2 Geohydrology

The Seymour consists of isolated areas of alluvium and is composed of gravel, sand and silty clay. The gravels, deposited by eastward flowing streams in geologic times, are mostly in the lower part of the Seymour. Total formation thickness is generally less than 100 feet. Water table conditions predominate. Direct infiltration of precipitation is the main source of recharge and is reasonably high. Water levels have fluctuated mostly in response to variations in rainfall and irrigation pumpage. Continuing water level declines have not occurred in most areas in Haskell and Knox Counties, and some rises have been noted. In all the other counties most water levels show a stable or declining trend, although water levels have risen in a few areas.

B.14.3 Development and Use

Within the Brazos G region, the TWDB estimates total groundwater pumpage of the Seymour Aquifer in 2021 was 67,199 acft. About 98 percent was used for irrigation. However, this aquifer is an important resource for several municipal water users in the northern part of the region. In Kent County, groundwater from the Seymour accounts for approximately two-thirds all of the municipal groundwater supplies. Haskell and Knox Counties accounted for about 95 percent of the total withdrawals from the Seymour Aquifer in the Brazos G region in year 2021.

B.14.4 Availability

The Seymour Aquifer in Brazos G is in GMA-6 and a very small area in GMA-7. In November 2022, the TWDB produced a report titled GAM Run 21-011 MAG, which includes the MAG for the Seymour Aquifer in GMA-6 (Harding, 2022). The MAGs were determined using the DFCs adopted by GMA-6 and the groundwater model of the Seymour and Blaine aquifers (Ewing et. al, 2004). Using the approach outlined by the TWDB, the MAGs were calculated for each county in GMA-6 with an adopted DFC. Non-MAG availability for the Seymour Aquifer in other counties was determined by the TWDB based on modeling done for GMA-6 for the relevant portions of the aquifer. Several of the non-MAG availabilities were updated by the Brazos G technical consultant as discussed in the Technical Memorandum. The MAGs are presented in the following table.

Seymour Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Fisher	6,132	6,132	6,472	6,473	6,131	5,900
Haskell	41,638	41,752	41,638	41,752	41,638	41,752
Jones*	3,552	3,554	3,554	3,557	3,560	3,563
Kent*	1,180	1,180	1,179	1,179	1,179	1,179
Knox	26,640	26,222	26,530	29,157	26,973	26,807
Stonewall*	254	254	253	254	253	254
Throckmorton*	115	115	115	115	115	115
Young*	258	258	258	258	258	258
Total	79,769	79,467	79,999	82,745	80,107	79,828

*Non-GAM estimate

B.14.5 Well Yields

Well yields in the Seymour Aquifer average 270 gpm and are as high as 1,300 gpm. Wide variations occur in individual well yields obtainable from the Seymour, depending on area, depth and local character and thickness of gravels.

B.14.6 Water Quality

Water quality in the Seymour Aquifer is variable for many reasons. The dissolved solids content of natural water ranges from 300 to 3,000 mg/L with most values between 400 and 1,000 mg/L. Most water meets drinking water standards, except for nitrate content which commonly exceeds the drinking water standard of 10 mg/L for public supplies. Past oil field practices have impacted water quality locally. Many detailed maps of individual water quality parameters for Haskell and Knox Counties are included in the TDWR Report 226 (Harden, 1978).

B.14.7 Resource Considerations

Groundwater resources from the Seymour Aquifer in the Brazos G region, while significant, are essentially fully developed, although some added supplies could be developed in some areas.

Counties with groundwater conservation districts include Kent (Salt Fork UWCD) and Haskell and Knox (Rolling Plains GCD). There may be additional opportunities for conjunctive use or for recharge and conservation projects in the region, depending on surface water availability and cost effectiveness.

B.14.8 References

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B.15 Sparta Aquifer

B.15.1 Location

The Sparta Aquifer is a minor aquifer that occurs in the southeastern part of the Brazos G region and in adjoining planning areas. It occurs in a northeast-southwest-trending band primarily across parts of Brazos, Burleson, Grimes, Lee, Milam and Robertson Counties (Figure B-13). Its location is a short distance southeast of the Queen City Aquifer. Some users have wells screened across both aquifers.

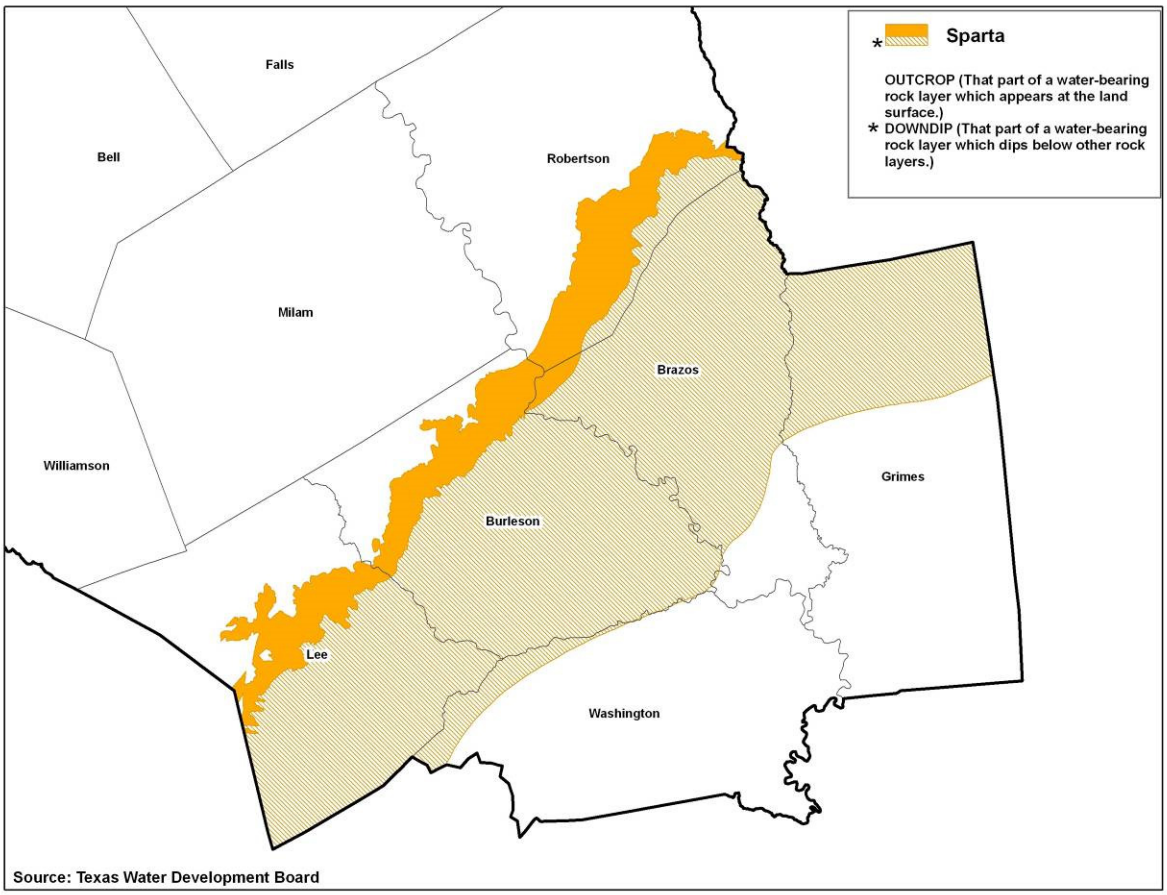

Figure B-13. Location of Sparta Aquifer in Brazos G

B.15.2 Geohydrology

The water-bearing zones of the Sparta Aquifer consist of sands interbedded with silts and clays. Total sand thickness ranges from about 100 to 200 feet. From their surface outcrop (recharge area) the sands dip coastward beneath younger strata. Freshwater occurs to depths up to 2,000 feet or more. Water table conditions occur in recharge areas, and artesian conditions occur in downdip areas. Precipitation and vertical leakage are the main sources of recharge.

B.15.3 Development and Use

The historic pumping 2021 groundwater from the Sparta Aquifer within the Brazos G region totaled 4,487 acft. About 57 percent that use was for municipal purposes, the majority of which occurred in Brazos County.

B.15.4 Availability

The Sparta Aquifer in the Brazos G region primarily lies within the boundary of GMA-12; however, a small portion does extend across the northern part of Grimes and Washington counties in GMA-14. In November 2022, the TWDB produced a report titled GAM Run 21-017 MAG, which includes the MAG for the Sparta Aquifer in GMA-12 (Shi and Harding, 2022). The MAG volume for the Sparta Aquifer was determined using the DFCs adopted by GMA-12 and the groundwater availability model for the central part of the Carrizo-Wilcox, Queen City, and Sparta aquifers, version 2.02 (Young and others, 2018; Young and Kushnereit, 2020). Using the approach outlined by the TWDB, the MAGs were calculated for each county within GMA-12. Non-MAG availability was determined by the TWDB to be zero for Grimes and Washington counties. The MAGs are presented in the following table.

Sparta Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Brazos	6,014	7,545	9,076	10,607	12,138	12,138
Burleson	2,840	3,131	3,437	3,760	4,105	4,105
Lee	809	975	1,181	1,434	1,751	1,751
Robertson	338	509	680	851	1,022	1,022
Total	10,001	12,160	14,374	16,652	19,016	19,016

*Non-GAM estimate

B.15.5 Well Yields

Estimated ranges for maximum individual well yields are 200 to 600 gpm. Wide variations can occur in individual well yields obtainable from the Sparta, depending on area, depth and local sand thickness.

B.15.6 Water Quality

Water quality in the Sparta Aquifer typically meets drinking water standards, except for iron. High iron content is a common problem, and hydrogen sulfide gas is reported occasionally. Groundwater in the Sparta near the outcrop generally is generally higher in hardness and lower in total dissolved solids content. In downdip areas the groundwater is commonly a calcium/sodium- or sodium-bicarbonate-type water with total dissolved solids content ranging from about 300 up to 1,000 mg/L or more.

B.15.7 Resource Considerations

Groundwater resources in the Sparta Aquifer in the Brazos G region are largely undeveloped, except in the vicinity of College Station, where College Station and Texas A&M well fields produce water for municipal use from the Sparta. Few development problems have occurred to date, and water level declines have been small, except near the College Station and Texas A&M well fields and the former Bryan well field. Few and limited water pollution problems are apparent. Counties with groundwater conservation districts include; Lee (Lost Pines GCD), Robertson and Brazos (Brazos Valley GCD) and Milam and Burleson (Post Oak Savannah GCD).

B.15.8 References

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B.16 Trinity Aquifer

B.16.1 Location

The Trinity Aquifer is a major aquifer and occurs in a north-south-trending band that extends in Brazos G from Williamson County in the south to Hood and Johnson Counties in the north. The outcrop of the Trinity Aquifer in Brazos G occurs mostly in Callahan, Eastland, Erath, Hood, Somervell, Comanche, Hamilton, Coryell and Lampasas Counties. The confined area is mostly located in Johnson, Hill, Bosque, McLennan, Coryell, Bell and Williamson Counties (Figure B-14). The aquifer supplies drinking water to numerous communities, homes and farms in Central Texas and irrigation water to many farms, especially in Comanche and Erath Counties. Based on water level declines that have occurred in the Trinity, the aquifer appears to be overdeveloped in a large part of the confined area.

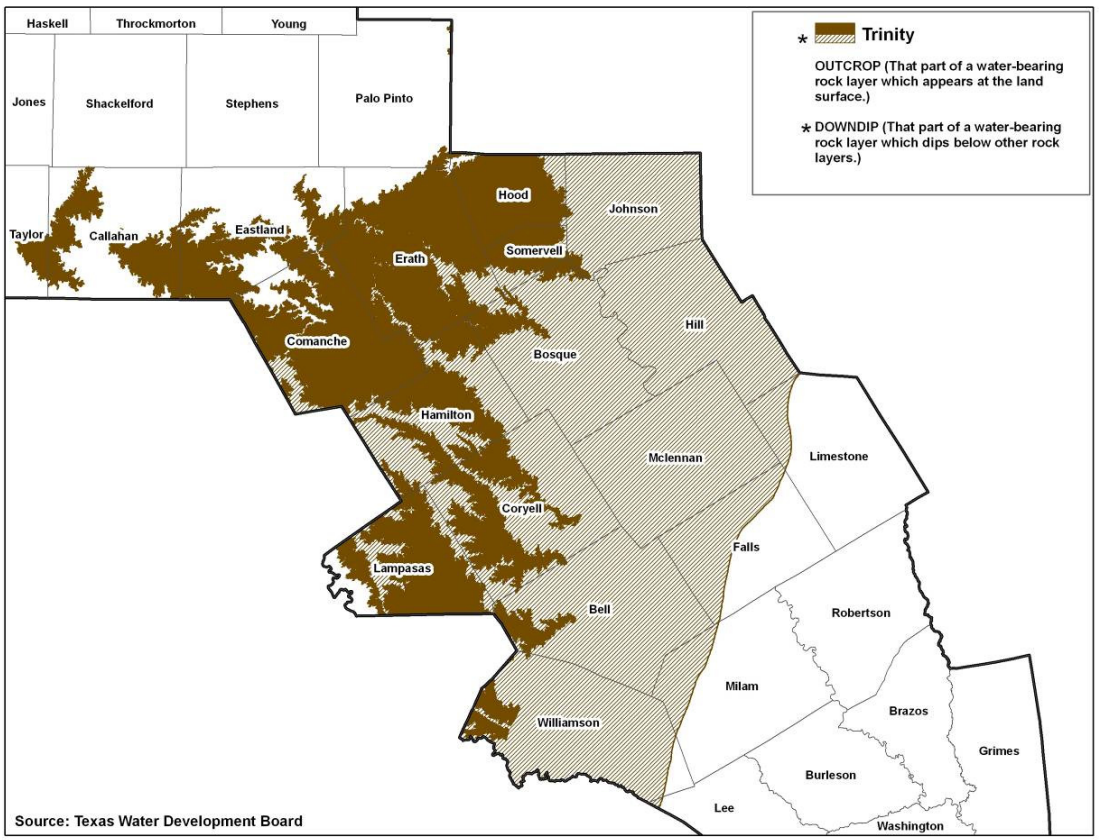

Figure B-14. Location of Trinity Aquifer in Brazos G

B.16.2 Geohydrology

The Trinity Aquifer is composed of the Paluxy, Glen Rose, Twin Mountains, Travis Peak, and Antlers Formations. The stratigraphy of the Trinity is very complicated and the names of the various aquifer units within the Trinity varies from region to region. The Travis Peak Formation is present in most of the Brazos G region and is subdivided into the Hensell, Pearsall/CowCreek/Hamett, and Hosston/Sligo members. The uppermost water-bearing zone of the Trinity Aquifer is the Paluxy Formation. In areas of the Trinity where the Glen Rose thins or is missing, the Paluxy and Travis Peak Formations coalesce to form the Antlers Formation. Groundwater is much more abundant in the lower zones of the Trinity than the upper zone.

The water-bearing zones of the Trinity Aquifer consist of a sand and limestone and are often interbedded with clay and shale. The aquifer outcrops in the western part of the north-south-trending band and is confined in the eastern part of the region. The formations that make up the Trinity Aquifer dip east-southeast at a rate of about 15 feet per mile in the northwest part of Brazos G, gradually increase in dip to 40 feet per mile in the central part, and then rapidly increase in dip to 80 to 100 feet per mile east of the Luling-Mexia-Talco Fault Zone. Water table conditions occur in outcrop (recharge) areas, and confined (artesian) conditions occur in downdip areas. The aquifer is naturally recharged by precipitation in the outcrop area where soils have layers of sand and sandy loam. In the downdip area, some recharge to the heavily pumped water-bearing zones probably includes a very modest amount of leakage from over- and underlying formations. Discharge is mostly to wells, springs, seeps and evapotranspiration in the outcrop area, and to wells in the confined zone.

B.16.3 Development and Use

The historic pumping in 2021 from the Trinity Aquifer in the Brazos G region totaled 75,366 acft, of which 43 percent was municipal use and 48 percent irrigation. Comanche, Erath, and McLennan Counties account for the highest percentage of total pumpage at 24 percent, 21 percent, and 13 percent, respectively.

B.16.4 Availability

The Trinity Aquifer in Brazos G is primarily located within GMA-8, though a small portion extends into Palo Pinto County in GMA-6 and Lee and Williamson counties in GMA-12. In November 2022, the TWDB produced a report titled GAM Run 21-013 MAG, which includes the MAG for the Trinity Aquifer in GMA-8 (Shi and Harding, 2022). The MAG volume for the Trinity Aquifer was determined using the DFCs adopted by GMA-8 and the groundwater availability model for the northern portion of the Trinity and Woodbine aquifers (Kelley and others, 2014). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. Non-MAG availability was determined by the TWDB for Lee, Palo Pinto, and part of Williamson counties and were determined based on modeling done for GMA-8. The non-MAG availability in Lee County is zero. The MAGs are presented in the following table.

Trinity Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Bell	9,275	9,275	9,275	9,275	9,275	9,275
Bosque	8,769	8,769	8,769	8,769	8,769	8,769
Callahan	1,726	1,726	1,726	1,726	1,726	1,726
Comanche	12,047	12,047	12,047	12,047	12,047	12,047
Coryell	4,494	4,494	4,494	4,494	4,494	4,494
Eastland	5,736	5,736	5,736	5,736	5,736	5,736
Erath	20,607	20,607	20,607	20,607	20,607	20,607
Falls	1,435	1,435	1,435	1,435	1,435	1,435
Hamilton	2,427	2,427	2,427	2,427	2,427	2,427
Hill	5,152	5,152	5,152	5,152	5,152	5,152
Hood	16,839	16,839	16,839	16,839	16,839	16,839
Johnson	8,825	8,825	8,825	8,825	8,825	8,825
Lampasas	1,661	1,661	1,661	1,661	1,661	1,661
McLennan	20,649	20,649	20,649	20,649	20,649	20,649
Palo Pinto*	1	1	1	1	1	1
Somervell	1,988	1,988	1,988	1,988	1,988	1,988
Taylor	14	14	14	14	14	14
Williamson	3,683	3,683	3,683	3,683	3,683	3,683
Total	125,328	125,328	125,328	125,328	125,328	125,328

*Non-GAM estimate

B.16.5 Well Yields

Well yields have a wide variation in the Trinity Aquifer. In general, yields for large supply wells in the western part of the aquifer where the outcrop occurs are between 50 and 250 gpm. In the confined portion of the aquifer, large wells usually produce between 200 and 700 gpm, although larger yields are possible. Well yields are mostly related to the cumulative thickness of sand layers and water level in the water-bearing zone at the well. Potential well yields have declined substantially in areas with large declines in water levels.

B.16.6 Water Quality

Water quality in the Trinity Aquifer is acceptable for most municipal and industrial purposes. However, excess concentrations of certain constituents in some areas exceed drinking water standards. One concern is relatively high concentrations of bacteria and nutrients that have been found in some wells in Callahan, Eastland, Erath and Comanche Counties. Another concern is contamination from brines associated with oil and gas operations. Finally, limited areas are impacted by leakage of poor-quality water from overlying formations.

B.16.7 Resource Considerations

Groundwater resources in the Trinity Aquifer are considered to be underdeveloped in the outcrop area and generally overdeveloped in the confined areas. The Trinity Aquifer in Brazos G is overseen by seven groundwater conservation districts, but these districts do not cover the entire aquifer area within the Brazos G region. Counties with groundwater conservation districts include: Lampasas (Saratoga UWCD), Bell (Clearwater UWCD), Bosque, Comanche, Coryell and Erath (Middle Trinity GCD), McLennan (Southern Trinity GCD), Milam (Post Oak Savannah GCD), Somerville, Johnson and Hill (Prairielands GCD) and Hood (Upper Trinity GCD).

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B.17 Woodbine Aquifer

B.17.1 Location

The Woodbine Aquifer is a minor aquifer that is found in the north-central part of the Brazos G region and in adjacent planning areas to the north. It occurs in a north-south-trending belt primarily across parts of Johnson and Hill Counties (Figure B-15).

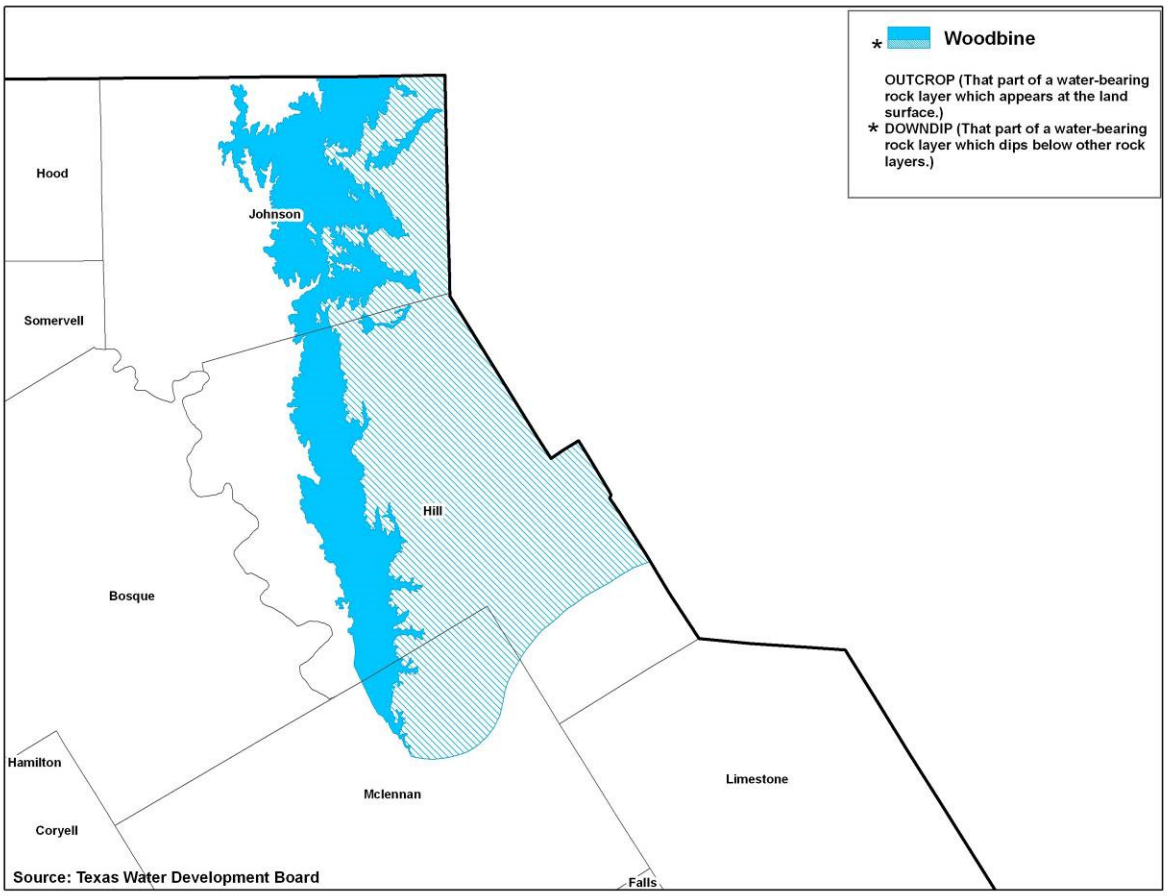

Figure B-15. Location of Woodbine Aquifer in Brazos G

B.17.2 Geohydrology

The Woodbine Aquifer consists of water-bearing sandstone interbedded with shale. The sandstone tends to be thicker in the lower part of the formation. The upper part of the Woodbine has distinctly poorer water quality. Total formation thickness ranges up to slightly over 200 feet with sand thicknesses of up to 100 feet. From their surface outcrop (recharge area) the water-bearing sands dip eastward beneath younger strata. Water table conditions occur in recharge areas, and artesian conditions occur in downdip areas. Precipitation is the main source of recharge.

B.17.3 Development and Use

Development in the Woodbine Aquifer is mostly limited to local use for domestic and livestock purposes. The TWDB estimates the total pumpage to be 385 acft in 2021 in the Brazos G region. About half of the pumpage was for livestock purposes, with about a third used for municipal purposes.

B.17.4 Availability

The Woodbine Aquifer in Brazos G is located within GMA-8. In November 2022, the TWDB produced a report titled GAM Run 21-013 MAG, which includes the MAG for the Trinity Aquifer in GMA-8 (Shi and Harding, 2022). The MAG volume for the Woodbine Aquifer was determined using the DFCs adopted by GMA-8 and the groundwater availability model for the northern portion of the Trinity and Woodbine aquifers (Kelley and others, 2014). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. Non-MAG availability was determined by the TWDB for McLennan County to be zero. The MAGs are presented in the following table.

Woodbine Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Hill	586	586	586	586	586	586
Johnson	1,981	1,981	1,981	1,981	1,981	1,981
Total	2,567	2,567	2,567	2,567	2,567	2,567

B.17.5 Well Yields

Estimated ranges for maximum individual well yields in the Woodbine Aquifer are 50 to 150 gpm. Wide variations occur in individual well yields obtainable from Woodbine sands, depending on area, depth, and local sand thickness.

B.17.6 Water Quality

Water quality in the Woodbine Aquifer typically meets drinking water standards. Groundwater obtained near the outcrop generally is higher in hardness and lower in total dissolved solids content. In confined areas the groundwater is commonly a sodium-bicarbonate-type water with total dissolved solids content ranging from 500 to over 1,000 mg/L. The higher mineralized groundwater contains appreciably higher sulfate content. High iron concentrations are common in the outcrop areas.

B.17.7 Resource Considerations

The Woodbine is a not a very productive aquifer, supports little development, has limited extent, and has minimal potential within the Brazos G region. Few development problems have occurred to date, but large water level declines can be expected from any significant added development. Care must be taken in well construction to seal off the higher mineralized water in the upper part of the formation and to screen the best water-bearing zones in the lower part. The groundwater conservation districts regulating the Woodbine in the Brazos G region are Southern Trinity GCD (McLennan County) and Prairielands GCD (Hill and Johnson Counties).

B.17.8 References

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B.18 Yegua-Jackson Aquifer

B.18.1 Location

The Yegua-Jackson Aquifer is a minor aquifer that occurs in the southeastern part of the Brazos G region and in adjoining planning areas. It occurs in a northeast-southwest trending band that is 15-20 miles wide and primarily cuts across parts of Brazos, Burleson, Grimes, Lee, and Washington Counties (Figure B-16). Its location is a short distance downdip of the Sparta Aquifer and is covered by younger sediments in much of the area.

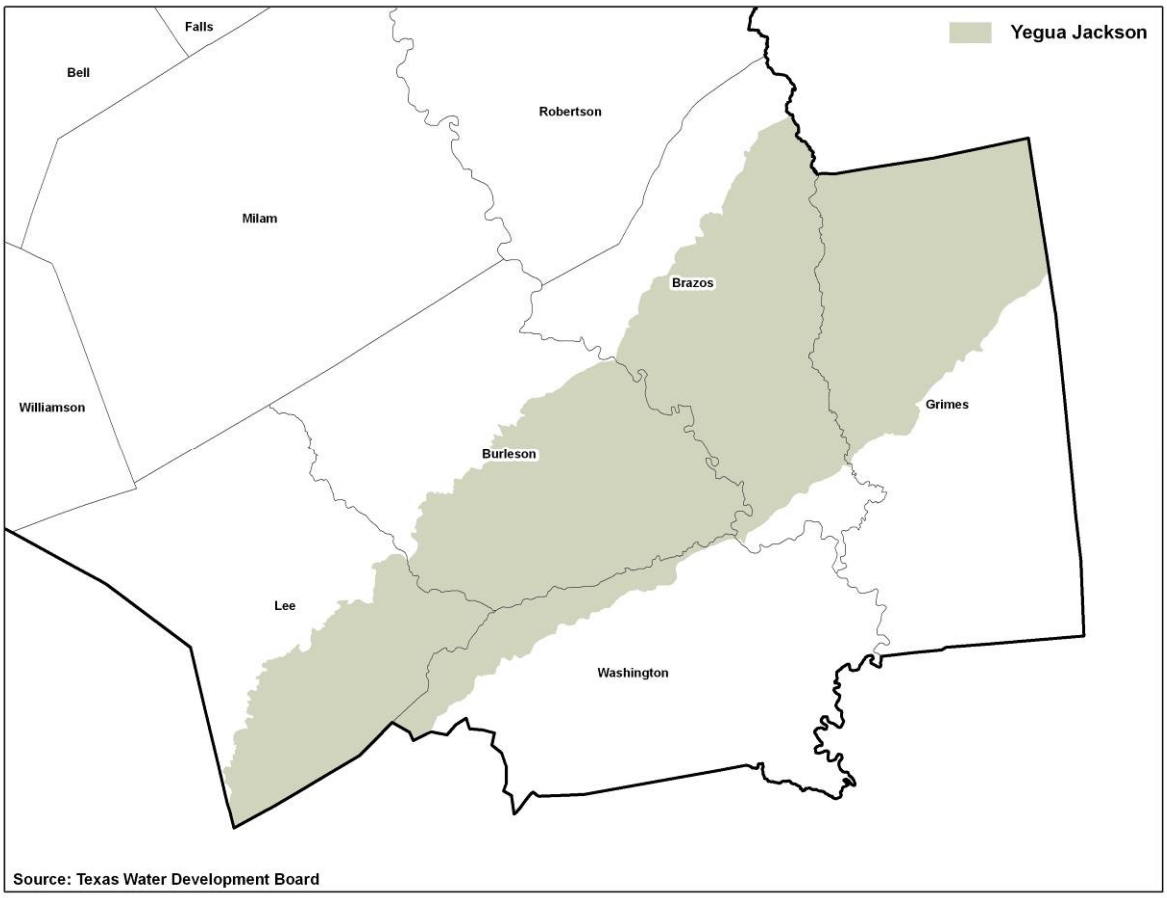

Figure B-16. Location of Yegua-Jackson Aquifer in Brazos G

B.18.2 Geohydrology

The Yegua-Jackson Aquifer consists of the Yegua Formation which overlies the units that make up the Jackson Group. The Yegua Formation consists of fine to medium sand that is interbedded with indurated fine-grained sandstone and clay. It has a maximum thickness in Grimes County of nearly 1,200 ft. The Jackson Group consists of fine to medium sand, clay, and siltstone. Its maximum thickness is about 1,600 ft. From their surface outcrop (recharge area) the sands dip coastward beneath younger strata. Water table conditions occur in recharge areas and artesian conditions occur in downdip areas. Precipitation is the main source of recharge.

B.18.3 Development and Use

Development in the Yegua-Jackson Aquifer is mostly limited to local use, mainly for domestic, irrigation, and livestock purposes. The TWDB estimates the historic pumping to be 2,931 acft in 2021 in the Brazos G region. Almost half of the pumpage occurred in Brazos County, the majority of which was for irrigation purposes.

B.18.4 Availability

The Yegua-Jackson Aquifer in Brazos G primarily lies within GMA-12 and GMA-14. In November 2022, the TWDB produced a report titled GAM Run 21-017 MAG, which includes the MAG for the Yegua-Jackson Aquifer in GMA-12 (Shi and Harding, 2022). The MAG volume for the Yegua-Jackson Aquifer was determined using the DFCs adopted by GMA-12 and the groundwater availability model for the Yegua-Jackson Aquifer (Deeds and others, 2010). Using the approach outlined by the TWDB, the MAGs were calculated for each county where DFCs were adopted. Non-MAG availability for Grimes and Washington counties were carried over from the previous planning cycle.

Yegua-Jackson Aquifer

Modeled Available Groundwater (acft/yr)						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Brazos	6,270	7,092	7,091	7,091	7,091	7,091
Burleson	5,315	7,004	7,004	7,000	6,058	6,058
Grimes*	787	787	787	787	787	787
Lee*	662	662	662	662	662	662
Washington*	157	157	157	157	157	157
Total	13,191	15,702	15,701	15,697	14,755	14,755

*Non-GAM estimate

B.18.5 Well Yields

Estimated maximum individual well yields are about 500 gpm. Wide variations can occur in individual well yields, depending on area, depth and local sand thickness.

B.18.6 Water Quality

Relatively shallow wells yield water that typically meets drinking water standards. Groundwater near the outcrop generally is higher in hardness and lower in total dissolved solids content. In downdip areas, water with total dissolved solids content ranges from about 300 up to 1,000 mg/L or more. Brackish groundwater is not uncommon in many areas of the Yegua-Jackson Aquifer.

B.18.7 Resource Considerations

Counties with groundwater conservation districts include Lee (Lost Pines GCD), Robertson and Brazos (Brazos Valley GCD), and Grimes (Bluebonnet GCD).

B.18.8 References

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APPENDIX C

PERMITTED AND REPORTED WATER USE

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Appendix C: Permitted and Reported Water Use

Table C-1 Permitted and Actual Use for Water Rights (>1,000 ac-ft/yr)

Basin	Water Right No.	County	Water Right Holder	Water Source	Permitted Amount (ac-ft/yr)	Use	Reported Use (ac-ft/yr)		
							2011	2012	2013
Colorado	1660	Callahan	City of Clyde	Lake Clyde	1,000	MUN	123	48	166
Brazos	2315	McLennan	City of Waco	Lake Waco	58,200	MUN	38,006	35,099	35,882
					16,802	IND	0	0	0
					900	IRR	704	666	538
Brazos	2936	Bell	U.S. Department of the Army	Lake Belton	12,000	MUN	6,914	5,925	5,201
Brazos	2938	Bell	City of Temple	Leon River	35,804	MUN	17,680	13,921	14,701
						IND	0	577	633
Brazos	2971	Lampasas	City of Lampasas	Sulphur Creek	3,760	MUN	0	0	90
Brazos	3440	Knox	Lago Grande LP	Lake Davis, Lake Catherine	2,031	IRR	0	0	0
Brazos	3458	Young	City of Graham	Lake Eddleman/Graham	11,000	MUN	5,358	2,274	3,273
					8,400	IND	0	0	0
					100	IRR	0	0	0
					500	MIN	0	0	0
Brazos	3468	Eastland	Eastland Industrial Foundation Inc., EBBA Iron Inc.	Lake Olden	1,607	MIN	0	0	265
Brazos	3470	Eastland	Eastland County Water Supply District	Lake Leon	5,450	MUN	0	0	0
					350	IND	0	0	0
					500	IRR	0	0	0
Brazos	3718	Kent	Occidental Permian Ltd.	Double Mountain Fork Brazos River	5,900	MIN	22	23	0
Brazos	3724	Haskell	Across the River Farm, LLC	Double Mountain Fork Brazos River	1,016	IRR	0	0	0
Brazos	3758	Milam	SLR Property I, LP	Lake Alcoa	18,000	IND	6,677	10,660	9,383
Brazos	3761	Milam	City Of Cameron	Little River	2,792	MUN	1,384	1,154	972
Brazos	3773	Milam	Hanover Ranch, L.P.	Little River	1,300	IRR	1,080	0	150
Brazos	3775	Milam	Betty and Lloyd Leifeste	Little River	1,767	IRR	128	176	66
Brazos	3936 (4235)	McLennan	Marecek Land & Cattle, LLC; Holy Land & Cattle; the Holy Family	Brazos River	2,600	IRR	62	606	1,717

Basin	Water Right No.	County	Water Right Holder	Water Source	Permitted Amount (ac-ft/yr)	Use	Reported Use (ac-ft/yr)		
							2011	2012	2013
Brazos	4013	Palo Pinto	Rocking W Ranch, LP; La Roca's Magic Valley Ranch, LP; Three Amigos Investment Group, LLC; Rio Roca Ranch, LP	Brazos River	1,229	IRR	304	288	329
Brazos	4013 (4276)	Falls	Robert L. Macha, et. al.	Brazos River	1,200	IRR	0	0	0
Brazos	4016 (4283)	Brazos	KR Sod - Brazos, LP; KHK Foggy Bottom Farms, Inc.; Ted Higgenbottom et al.	Brazos River	5,440	IRR	652	1,534	789
Brazos	4031	Palo Pinto	Palo Pinto County Municipal Water District 1	Lake Palo Pinto	12,500	MUN	4,497	4,189	3,948
					6,000	IND	0	0	0
Brazos	4080 (4398)	Robertson	Gathan Reistino	Brazos River	1,500	IRR	0	0	0
Brazos	4097	Somervell	Texas Utilities Electric Company, Inc.	Squaw Creek	23,180	IND	19,548	22,280	20,514
Brazos	4104	Bosque	Arcosa Aggregates, Inc.	Brazos River	3,811	IRR	1,370	370	320
Brazos	4106	Johnson	City of Cleburne	Lake Pat Clebburne	5,760	MUN	5,526	4,458	2,113
					240	IRR	126	212	164
						IND	0	0	0
Brazos	4014	Falls	Walsh Ranches Limited Partnership	Brazos River	1,851	IRR	0	0	0
Brazos	4128	Nolan	City of Sweetwater	Lake Trammel	2,000	MUN	0	0	0
Brazos	4130	Nolan	City of Sweetwater	Lake Sweetwater	2,730	MUN	0	0	0
					960	IND	0	0	0
					50	IRR	82	242	248
Brazos	4142	Taylor	City of Abilene	Lake Abilene	1,675	MUN	0	0	0
Brazos	4150	Taylor	City of Abilene	Lake Kirby	3,880	MUN	0	0	0
						IND	0	0	0
						IRR	1,422	113	37
Brazos	4151	Taylor	City of Clyde	Upper Lytle Lake	2,500	IND	0	0	0
Brazos	4161	Jones	City of Abilene	Fort Phantom Hill Reservoir	25,690	MUN	8,993	4,739	3,273
					4,000	IND	14	42	48

Basin	Water Right No.	County	Water Right Holder	Water Source	Permitted Amount (ac-ft/yr)	Use	Reported Use (ac-ft/yr)		
							2011	2012	2013
					1,000	IRR	8	4	3
Brazos	4165	Jones	City of Abilene	Deadman Creek	3,000	MUN	0	0	0
Brazos	4179	Haskell	City of Stamford	Lake Stamford	10,000	MUN	888	801	748
						IND	0	0	0
				College Lake		OTH	0	0	0
Brazos	4211	Eastland	City of Cisco	Lake Cisco	1,971	MUN	854	776	676
					56	IND	0	0	0
Brazos	4212	Eastland	City of Cisco	Battle Creek	1,000	MUN	12	167	10
Brazos	4213	Stephens	West Central Texas Municipal Water District	Hubbard Creek Lake	56,000	MUN	18,762	22,075	20,883
						IND	0	0	0
						IRR	0	0	0
						MIN	52	45	74
						D&L	0	0	817
Brazos	4214	Stephens	City of Breckenridge	Lake Daniel	2,100	MUN	6	119	0
Brazos	4266 (4589)	Jones	City of Abilene	Deadman Creek	4,330	IRR	381	169	55
Brazos	4318	Bosque	City of Waco; CHS Farms LTD; Lakeview Recreation Association, Inc; the Neuhaus Family	Brazos River	2,820	IRR	1,393	2,026	2,151
						IND	0	0	70
Brazos	4340	McLennan	City of Waco	Brazos River	5,600	MUN	5	0	0
Brazos	4342	McLennan	Tradinghouse Power Company LLC	Brazos River	27,000	IND	0	0	0
Brazos	4344	McLennan	DRR Family Properties, Turner Groves Limited Partnership, Lola Robinson	Tehuacana Crk	1,060	IRR	1,060	1,060	1,060
Brazos	4345	McLennan	BASF Corporation	Brazos River	10,000	IND	0	0	0
Brazos	4355	Falls	City of Marlin	New Marlin Lake	6,000	MUN	763	605	553
					2,000	IND	0	0	553
				Brushy Creek Reservoir		REC	0	0	0
Brazos	4363	Robertson	Joe Reistino Estate	Brazos River	1,500	IRR	500	1,500	0
Brazos	5085	McLennan	City of Robinson	Brazos River	13,100	MUN	824	567	388
Brazos	5094	McLennan	City of Waco	Lake Waco	20,770	MUN	0	0	0
Brazos	5155	Palo Pinto	Brazos River Authority	Possum Kingdom	230,750	MUN	2,736	998	1,323
						IND	60,445	5,454	12,322

Basin	Water Right No.	County	Water Right Holder	Water Source	Permitted Amount (ac-ft/yr)	Use	Reported Use (ac-ft/yr)		
							2011	2012	2013
						IRR	16,554	3,459	4,113
						MIN	2,083	1,601	2,595
						OTH	241	45	107
Brazos	5156	Hood	Brazos River Authority	Lake Granbury	64,712	MUN	8,263	5,849	5,752
						IND	45,006	45,000	44,939
						IRR	5,949	4,483	3,493
						MIN	479	200	0
Brazos	5157	Hill	Brazos River Authority	Lake Whitney	18,336	MUN	3,497	779	1,617
						IND	24,514	19,232	24,921
Brazos	5158	Hill	Brazos River Authority	Lake Aquilla	13,896	MUN	6,743	5,451	7,288
						IND	0	0	0
						MIN	0	0	0
Brazos	5159	Comanche	Brazos River Authority	Lake Proctor	19,658	MUN	3,306	2,868	2,607
						IND	0	0	0
						IRR	4,908	7,858	5,582
						MIN	0	0	0
Brazos	5160	Bell	Brazos River Authority	Lake Belton	100,257	MUN	59,548	53,637	55,734
						IND	9,726	7,176	26,453
						IRR	6,273	247	1,741
						MIN	0	0	0
Brazos	5161	Bell	Brazos River Authority	Lake Stillhouse Hollow	67,768	MUN	65,194	28,182	26,241
						IND	8,107	0	2
						IRR	27,841	360	12
						MIN	0	0	0
Brazos	5162	Williamson	Brazos River Authority	Lake Georgetown	13,610	MUN	13,441	13,444	13,443
						IND	0	0	0
						IRR	0	0	0
						MIN	0	0	0
Brazos	5163	Williamson	Brazos River Authority	Lake Granger	19,840	MUN	4,262	3,453	3,548
						IND	602	0	3,351
						IRR	0	0	0
						MIN	0	0	0
Brazos	5164	Washington	Brazos River Authority	Lake Somerville	48,000	MUN	7,033	3,271	3,251
						IND	29,459	4,069	15,523
						IRR	5,015	0	17,607
						MIN	0	12	8
Brazos	5165	Robertson	Brazos River Authority	Lake Limestone	65,074	MUN	2,680	1,091	994
						IND	60,118	43,838	41,575
						IRR	1,052	362	393
						MIN	28	16	37
Brazos	5271	Burleson	Texas A & M University	Middle Bayou	1,200	IRR	290	213	281
					420	IND	0	0	0
Brazos	5272	Milam	SLR Property I, LP	Alcoa Lake	14,000	IND	0	0	0
Brazos	5287	Limestone	Bi-Stone Municipal	Lake Mexia	2,887	MUN	125	0	0
					65	IND	0	0	0

Basin	Water Right No.	County	Water Right Holder	Water Source	Permitted Amount (ac-ft/yr)	Use	Reported Use (ac-ft/yr)		
							2011	2012	2013
			Water Supply District						
Brazos	5289	Limestone	City of Groesbeck	Navasota River	2,500	MUN	736	0	567
Brazos	5298	Robertson	Texas Utilities Electric Company, Inc.	Duck Creek	13,200	IND	12,346	10,933	11,603
Brazos	5307	Grimes	Gibbons Tract 1, LP	Navasota River	6,000	IND	3,277	3,245	5,044
Brazos	5311	Grimes	Gibbons Tract 1, LP	Gibbons Creek	9,740	IND	4,751	3,392	5,610
Brazos	5551	Bosque	City of Clifton	N Bosque River	2,004	MUN	567	483	209
Brazos	5744	Somervell	Somervell County Water District	Wheeler Branch	2,000	MUN	67.18	487.94	478.79
Brazos	5913	Brazos	City of College Station	Carters Crk, Lick Crk, Navasota River, Brazos Rive	12,881	MUN	0	0	0

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APPENDIX D

DESCRIPTIONS OF VEGETATIVE REGIONS AND BIOTIC REGIONS

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Appendix D: Descriptions of Vegetative Regions and Biotic Regions

Vegetative Regions

Rolling Plains. The original prairie vegetation included tall and mid-grasses such as little bluestem *(Schizachyrium scoparium var. frequens)*, big bluestem (Andropogon gerardii), sand bluestem *(Andropogon halli)*, side-oats grama *(Bouteloua curtipendula)*, Indian grass *(Sorghastrum nutans)*, switchgrass *(Panicum virgatum)*, hairy grama *(B. hirsuta)*, blue grama *(B. gracilis)*, Canada wildrye *(Elymus canadensis)* and western wheat *(Agropyron smithii)*.

Mesquite *(Prosopis glandulosa)* is a common invader on all soils, while shinnery oak *(Quercus harvardii)* and sand sage *(Artemisia filifolia)* invade only sandy soils. Juniper *(Juniperus spp.)* clings to steep slopes along rivers.

Blackland Prairies. Studies have shown that the native vegetation of the Blackland Prairies should be classified as true prairie with little bluestem being a climax dominant. Big bluestem, Indiangrass, switchgrass, hairy grama, sideoats grama, tall dropseed *(Sporobolus asper var. asper)*, silver bluestem *(Bothriochloa saccharoides)* and Texas wintergrass *(Stipa leucotricha)* represent other important grasses in the vegetational region. With heavy grazing practices, invading or increasing species such as buffalograss *(Buchloe dactyloides)*, Texas grama *(Bouteloua rigidiseta)* and smutgrass *(Sporobolus indicus)*, along with other annuals, may become prevalent. Improved pastures with the introduced grass species such as dallisgrass *(Paspalum dilatatum)* and bermudagrass *(Cynodon dactylon)* are common in the area. Asters *(Aster spp.)*, prairie bluet *(Hedyotis nigricans var. nigricans)*, prairie clover *(Dalea spp.)* and late coneflower *(Rudbeckia serotina)* are common forms of these prairies.

Wooded areas along riparian strips in the Blackland Prairies include such species as black willow *(Salix nigra)*, oaks *(Quercus spp.)*, pecan *(Carya illinoinensis)*, osage orange *(Maclura pomifera)*, elms *(Ulmus spp.)* and eastern cottonwood *(Populus deltoides)*. Woody invasive species that are commonly found in the vegetational area include post oak *(Quercus stellata)*, blackjack oak *(Q. marilandica)* and cedar elm *(Ulmus crassifolia)* in the north, with honey mesquite *(Prosopis glandulosa)* being a common invader in the southern portion of the region.

Post Oak Savannah. Typical native woody vegetation in this area includes post oak *(Quercus stellata)*, blackjack oak *(Q. marilandica)*, eastern juniper *(Juniperus virginiana)* and hackberries *(Celtis spp.)*. Yaupon *(Ilex vomitoria)*, American beautyberry *(Callicarpa americana)* and greenbriar *(Smilax bona-nox)* are common understory constituents of wooded areas. Common native grasses in this region include little bluestem *(Schizachyrium scoparium)*, Indiangrass *(Sorghastrum nutans)*, switchgrass *(Panicum virgatum)* and Texas wintergrass *(Stipa leucotricha)*. Forbs typical of the prairie portions include indigobush *(Amorpha fruiticosa v. angustifolia)*, senna *(Cassia sp.)*, tick-clover *(Desmodium spp.)*, prairie-clover *(Petalostemon spp.)*, western ragweed *(Ambrosia psilostachya)* and croton *(Croton spp.)*.

Cross Timbers and Prairies. Upland vegetation within this region may vary from open savannah consisting of such native grasses as little bluestem *(Schizachyrium scoparium)*, big bluestem *(Andropogon gerardi)*, Indian grass *(Sorghastrum nutans)*, switchgrass *(Panicum virgatum)*, Canada wild-rye *(Elymus canadensis)*, side-oats grama *(Bouteloua curtipendula)*, hairy grama *(B. hirsuta)*, tall dropseed *(Sporobolus sp.)* and Texas wintergrass *(Stipa leucotricha)*.

Much of this region has been utilized for agriculture, primarily in the form of ranchland. With the advent of overgrazing and land mismanagement, invading grasses such as hairy tridens *(Erioneuron pilosum)*, Texas grama *(B. rigidiseta)* and red lovegrass *(Eragrostis secundiflora)* have become common, along with dense brush consisting of post oak *(Quercus stellata)*, blackjack oak *(Q. marilandica)*, mesquite *(Prosopis glandulosa)* and junipers *(Juniperus sp.)*. Along streams, riparian vegetation is typically dominated by such hardwood tree species as cedar elm *(Ulmus crassifolia)* and pecan *(Carya illinoinensis)* and oaks, but mesquite is also a typical invader in these areas.

Edwards Plateau. Grasses that are typical of the Edwards Plateau region include switchgrass *(Panicum virgatum)*, Indian grass *(Sorghastrum nutans)*, beardgrass *(Bothriochloa spp.)*, little bluestem *(Schizachyrium scoparium)*, sideoats grama *(Bouteloua curtipendula)*, Canada wildrye *(Elymus canadensis)*, curly mesquite *(Hilaria belangeri)* and buffalograss *(Buchloe dactyloides)*. Other plants commonly found within this vegetational area include ashe juniper *(Juniperus ashei)*, plateau live oak *(Quercus fusiformis)*, Texas oak *(Q. texana)*, Texas persimmon *(Diospyros texana)*, elbowbush *(Forestiera pubescens)*, Texas mountain laurel (*Sophora secundiflora*), prickly-pear cactus (*Opuntia spp.*) and pencil cactus (*O. leptocaulis*).

Biotic Provinces

Kansan. The mixed-grass plains region is dominated by little bluestem, big bluestem (*Andropogon gerardii*) and western wheatgrass. The mesquite-grass association is dominated by mesquite (*prosopis grandulosa*), with various species of grama (*Bouteloua spp.*), three-awn (*Aristida spp.*) and broomweed (*Gutierrezia texana*). The short-grass plains are dominated by buffalograss (*Buchloe dactyloides*) with various species of grama grasses.

Characteristic mammals of the Kansan province include: black-footed ferret (*Mustela nigripes*), striped skunk (*Mephitis mephitis*), coyote (*Canis latrans*), northern grasshopper mouse (*Onychomys leucogaster*), southern plains woodrat (*Neotoma micropus*) and Ord's Kangaroo rat (*Dipodomys ordii*).

Austroriparian. Common Austroriparian province mammals within Texas include: Virginia opossum (*Didelphis virginaiana*), eastern mole (*Scalopus aquaticus*), eastern pipistrelle (*Pipistrellus subflavus*), eastern red bat (*Lasiurus borealis*), eastern gray squirrel (*Sciurus carolinesis*), eastern flying squirrel (*Glaucomys volans*), Baird's pocket gopher (*Geomys breviceps*), white-footed mouse (*Peromyscus leucopus*), hispid cotton rat (*Sigmodon hispidus*), eastern woodrat (*Neotoma floridana*), eastern cottontail (*Sylvilagus floridanus*) and swamp rabbit (*Sylvilagus aquaticus*).

Land turtles common to this province are ornate box turtle (*Terrapene ornata*) and eastern box turtle (*Terrapene carolina*). Common snake species found in this Texas region include: cottonmouth moccasin (*Agkistrodon piscivorus leucostoma*), copperhead (*Agkistrodon contortirx*), rough green snake (*Opheodrys aestivus*), rat snake (*Elaphe obsoleta*), coachwhip (*Masticophis flagellum*) and speckled kingsnake (*Lampropeltis geluta holbrooki*). Several Austroriparian species apparently reach their western limits in this Texas province, including the eastern harvest mouse (*Reithrodontomys humulis*), cotton mouse (*Peromyscus gossypinus*), spotted salamander (*Ambystoma maculatum*), marbled salamander (*Ambystoma opacum*), mole salamander (*Ambystoma talpoideum*), pig frog (*Rana grylio*) and pickerel frog (*Rana palustris*).

Balconian. Fifty-seven species of mammals are known from the Balconian province but no species is restricted to this province. The mammalian fauna of the Balconian contains a strong influence from the Chihuahuan species that range into the province from the west and the Austroriparian province from the east.

Some common mammals are the nine-banded armadillo (*Dasypus novimcinctus*), fox squirrel (*Sciurus niger*), white-footed mouse (*Peromyscus leucopus*), black rat (*Rattus rattus*), house mouse (*Mus musculus*), raccoon (*Procyon lotor*) and white-tailed deer (*Odocoileus virginiana*).

Approximately 400 avian species have been recorded as occurring in the Balconian Biotic Province. Common species include mourning dove (*Zenaida macroura*), yellow-billed cuckoo (*Coccyzus americanus*), chimney swift (*Chaetura pelagica*), black-chinned hummingbird (*Archilochus alexandri*), red-bellied woodpecker (*Melanerpes carolinus*), purple martin (*Progne subis*), cliff swallow (*Hirundo pyrrhonota*), blue jay (*Cyanocitta cristata*), Carolina chickadee (*Parus carolinensis*), tufted titmouse (*Parus bicolor*), Carolina wren (*Thryothorus ludovicianus*), Bewick's wren (*Thryomanes bewickii*), northern mockingbird (*Mimus polyglottos*), white-eyed vireo (*Vireo griseus*), black-and-white warbler (*Mniotilta varia*), northern cardinal (*Cardinalis cardinalis*), rufous-crowned sparrow (*Aimophila ruficeps*), lark sparrow (*Chodestes grammacus*), great-tailed grackle (*Quiscalus mexicanus*) and house sparrow (*Passer domesticus*).

Texan. Mammals typical of this province include the Virginia opossum (*Didelphis virginiana*), eastern mole (*Scalopus aquaticus*), fox squirrel (*Sciurus niger*), Louisiana pocket gopher (*Geomys breviceps*), fulvous harvest mouse (*Reithrodontomys fulvescens*), white-footed mouse (*Peromyscus leucopus*), hispid cotton rat (*Sigmodon hispidus*), eastern cottontail (*Sylvilagus floridanus*) and swamp rabbit (*S. aquaticus*). Animals typical of grasslands of this province include the thirteen-lined ground squirrel (*Spermophilus tridecemlineatus*), hispid pocket mouse (*Chaetodipus hispidus*), deer mouse (*Peromyscus maniculatus*) and black-tailed jackrabbit (*Lepus californicus*).

Typical anuran species to this province are the Hurter's spadefoot (*Scaphiopus holbrookii hurteri*), Gulf Coast toad (*Bufo valliceps*), Woodhouse's toad (*Bufo woodhousii*), gray treefrog (*Hyla versicolor/chrysoscelis*), green treefrog (*Hyla cinerea*), bullfrog (*Rana catesbeiana*), southern leopard frog (*Rana sphenocephala*) and eastern narrowmouth toad (*Microhylla carolinensis*).

Federal and State-Listed Threatened and Endangered Species of Potential Occurrence in the BGRWPA

Common Name	Scientific Name	USFWS/ State	County of Occurrence
Amphibians			
Barton Springs Salamander	Eurycea sosorum	E / E	Wi
Georgetown salamander	Eurycea naufragia	T / T	Wi
Houston toad	Anaxyrus houstonensis	E / E	Br, Bu, Gr, Le, Mi, Ro, Wa
Jollyville Plateau salamander	Eurycea tonkawae	T / T	Wi
Salado Springs salamander	Eurycea chisholmensis	T / T	Be, Wi
Arachnids			
Bone Cave Harvestman	Texella reyesi	E / --	Wi
Reddell harvestman	Texella reddelli	E / --	Wi
Birds			
Black Rail	Laterallus jamaicensis	T / T	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
golden-cheeked warbler	Setophaga chrysoparia	E / E	Be, Bo, Cr, Er, Ha, Hi, Ho, Jo, La, Mc, Pa, So, St, Wi, Yo
interior least tern	Sternula antillarum athalassos	-- / E	Be, Bo, Br, Bu, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hi, Ho, Jo, La, Le, Li, Mc, Mi, Pa, Ro, Sh, So, St, Th, Wa, Wi, Yo
piping plover	Charadrius melodus	T / T	Be, Bo, Br, Bu, Fa, Fi, Gr, Hi, Ho, Jo, Le, Li, Mc, Mi, Ro, So, Wa, Wi
red-cockaded woodpecker	Dryobates borealis	E, PT / E	Gr
rufa red knot	Calidris canutus rufa	T / T	Be, Bo, Br, Bu, Fa, Fi, Gr, Hi, Jo, Le, Li, Mc, Mi, Ro, Wa, Wi
swallow-tailed kite	Elanoides forficatus	-- / T	Br, Bu, Fa, Fi, Gr, Le, Li, Mi, Ro, Wa, Wi
white-faced ibis	Plegadis chihi	-- / T	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
whooping crane	Grus americana	E / E	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, La, Le, Li, Mc, Mi, Pa, Ro, Sh, So, St, Sn, Th, Wa, Wi, Yo
wood stork	Mycteria americana	-- / T	Be, Br, Bu, Fa, Fi, Gr, Le, Li, Mc, Mi, Ro, Wa, Wi
yellow-billed cuckoo	Coccyzus americanus	T / --	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
zone-tailed hawk	Buteo albonotatus	-- / T	La
Fish			
Chub Shiner	Notropis potteri	-- / T	Bo, Br, Bu, Fa, Fi, Hs, Hi, Jn, Ke, Kn, Mc, Mi, Pa, Ro, Sn, Wa, Yo
paddlefish	Polyodon spathula	-- / T	Gr
Red River pupfish	Cyprinodon rubrofluviatilis	-- / T	Ke, Kn, Sn

Common Name	Scientific Name	USFWS/ State	County of Occurrence
sharpnose shiner	Notropis oxyrhynchus	E / E	Hs, Ke, Kn, Pa, Sn, Th, Yo
smalleye shiner	Notropis buccula	E / E	Be, Bo, Br, Bu, Fa, Fi, Hs, Hi, Ke, Kn, Mc, Mi, Pa, Ro, Sn, Wa, Yo
western creek chubsucker	Erimyzon claviformis	-- / T	Br, Gr
Insects			
Coffin Cave Mold Beetle	Batrisodes texanus	E / --	Wi
Kretschmarr Cave mold beetle	Texamaurops reddelli	E / --	Be, Wi
migratory monarch butterfly	Danaus plexippus plexippus	C / --	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
Tooth Cave ground beetle	Rhadine persephone	E / --	Wi
Mammals			
Rafinesque's big-eared bat	Corynorhinus rafinesquii	-- / T	Gr
tricolored bat	Perimyotis subflavus	PE / --	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
Mollusks			
Balcones Spike	Fusconaia iheringi	E / E	Be, Br, Bu, Cr, Mi, Ro, Wi
Brazos Heelsplitter	Potamilus streckersoni	-- / T	Be, Bo, Br, Bu, Cr, Er, Fa, Fi, Gr, Ha, Hi, Ho, Jo, Le, Li, Mc, Mi, Pa, Ro, Sh, So, St, Th, Wa, Wi, Yo
false spike	Fusconaia mitchelli	E / E	Be, Br, Bu, Cr, Mi, Ro, Wi
Texas fawnsfoot	Truncilla macrodon	T / T	Be, Bo, Br, Bu, Cr, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, La, Le, Li, Mc, Mi, Pa, Ro, Sh, So, St, Th, Wa, Wi, Yo
Texas pimpleback	Cyclonaias petrina	E / E	La, Le, No
Plants			
earth fruit	Geocarpon minimum	T / T	Pa
large-fruited sand-verbena	Abronia macrocarpa	E / E	Ro
Navasota ladies'-tresses	Spiranthes parksii	E / E	Br, Bu, Gr, Li, Mi, Ro, Wa
small-headed pipewort	Eriocaulon koernickianum	-- / T	Br, Li
Reptiles			
Alligator Snapping Turtle	Macrochelys temminckii	PT / T	Gr, Li
American Alligator	Alligator mississippiensis	SAT / --	Br, Bu, Fa, Fi, Gr, Ha, Hi, Jo, Le, Li, Mc, Mi, Ro, Wa, Wi
Brazos Water Snake	Nerodia harteri	-- / T	Bo, Er, Hs, Ho, Jo, Jn, Pa, Sh, So, St, Th, Yo
Texas horned lizard	Phrynosoma cornutum	-- / T	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo

United States Fish and Wildlife Service Listing Abbreviations (USFWS):

LE: Endangered (in danger of extinction throughout all or a significant portion of its range)

LT: Threatened (likely to become endangered within the foreseeable future)

PE, PT: Proposed endangered/threatened

LE/SA,LT S/A: Endangered/threatened by similarity of appearance

DL, PDL: Delisted, proposed delisted

C: Candidate for listing, with biological vulnerability and threats to support listing

LT w/CH: Threatened with Critical Habitat in Texas

--: Not Federally Listed

Texas Parks and Wildlife Department (TPWD) Listing Abbreviations:

E: Listed as Endangered by the State of Texas

T: Listed as Threatened by the State of Texas

--: Rare, but with no regulatory listing status

County Name Abbreviations

Be: Bell

Bo: Bosque

Br: Brazos

Bu: Burleson

Ca: Callahan

Co: Comanche

Cr: Coryell

Ea: Eastland

Er: Erath

Fa: Falls

Fi: Fisher

Gr: Grimes

Ha: Hamilton

Hs: Haskell

Hi: Hill

Ho: Hood

Jo: Johnson

Jn: Jones

Ke: Kent

Kn: Knox

La: Lampasas

Le: Lee

Li: Limestone

Mc: McLennan

Mi: Milam

No: Nolan

Pa: Palo Pinto

Ro: Robertson

Sh: Shackelford

So: Somervell

St: Stephens

Sn: Stonewall

Ta: Taylor

Th: Throckmorton

Wa: Washington

Wi: Williamson

Yo: Young

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APPENDIX E

DETAILED INFORMATION FOR AGRICULTURAL RESOURCES

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E.1 Irrigation

Surveys of the BGRWPA counties were completed in 1994 by the TWDB and in 1997, and every five years thereafter, by the US Department of Commerce (Census of Agriculture). The total irrigated acreage for the BGRWPA was 214,096 acres in the 1994 survey, 186,955 acres in the 2007 survey, 171,052 acres in the 2017 survey, and 159,795 acres in the 2022 survey.

Irrigated acreage has declined from 1994 to the present time in the Cross Timbers Region by 27,889 acres. Still, this region contains the greatest quantity of irrigated acreage in the BGRWPA at approximately 31 percent of all irrigated acreage. Comanche County contains the most irrigated acreage among the counties in the Brazos G area, with 23,210 acres.

In the East Texas South and South Central Regions, total irrigated acreage decreased by 7,826 acres between 1994 and present day. Acreage in Burleson and Robertson Counties comprise the majority of total irrigated acreage in the region at 28 and 35 percent, respectively.

For the Southern Low Plains Region, irrigated acreage decreased by 41,684 during the same period. The region is continuing in its trend toward dry land crops such as small grains, hay and silage. Haskell and Knox Counties contain the largest portions of total irrigated acreage in the region at 41 and 23 percent, respectively.

The Blackland Region is the only region for which irrigated acreage has increased between 1994 and now; the total increase across this period within the region is 23,098 acres. Almost half of the total irrigated acreage in the Blackland Region is within Falls and Hill Counties.

E.2 Livestock

The Cross Timbers region is a major dairy area of the state. Erath County is the leading county in the Cross Timbers region as well as the Brazos G RWPA as a whole in terms of the number of dairy cows; Comanche County ranks second followed by Hamilton County in the Blacklands region at a distant third. Almost 80 percent of the total number of dairy cows in the Brazos G RWPA are located in Erath and Comanche Counties.

Dairy water requirements vary widely, depending on the types of waste removal and cow washing systems. Surveys of 11 dairies in Erath County in the early 1990s showed a daily water use of about 100 gallons per milking cow on dairies with sprinklers for washing cow udders prior to milking. The water use included about 30 gallons of drinking water, 40 gallons for manure removal and 30 gallons for washing cow udders prior to milking. If the dairy does not use a cow washing system, the daily water use averaged about 80 gallons per milking cow. For an average of 100 gallons of water per day per milking cow, the BGRWPA dairy water use for 110,659 milking cows is 1,019 acre feet per month. The source of this water is virtually all ground water from the Trinity Aquifer as each dairy has its own water supply. With farm numbers declining and size increasing, more producers are adopting the latest technology to increase profitability. The evolution from pasture and dry lot to free stall barns will require greater water use. Misting and evaporative systems for summer months will be needed for animal cooling purposes. Manure removal, sanitation, and disinfection will elevate water use as well.

Other significant livestock raised in the BGRWPA in 2022 were cattle and calves, beef cattle, swine, and sheep. Total number of swine and sheep of all ages were 15,783 and 98,663, respectively. Beef cows numbered 394,566 head and all cattle and calves totaled 1,975,431.

Table E-1 2017 Agricultural Production Statistics

Agricultural District	*Market Value ($1,000)*			*Livestock % Value*	*Area (Acres)*			
	Crops	*Livestock*	*Total*		*Farmland*	*Cropland*	*Harvested*	*Irrigated*
Blacklands								
Bell	49,734	40,364	90,098	45%	496,484	156,364	128,266	1,337
Bosque	21,771	47,386	69,157	69%	586,420	72,399	28,781	2,923
Coryell	16,052	57,456	73,508	78%	511,451	121,551	58,849	2,563
Falls	56,898	131,970	188,868	70%	488,283	253,061	138,170	4,713
Hamilton	4,327	96,377	100,704	96%	515,913	68,145	30,046	1,979
Hill	95,298	34,644	129,942	27%	566,852	246,249	207,740	11,024
Johnson	25,113	40,882	65,995	62%	287,921	109,535	84,036	1,494
Lampasas	1,607	31,510	33,117	95%	448,284	40,992	11,950	918
Limestone	11,047	84,598	95,645	88%	458,104	59,023	35,095	1,280
Mclennan	58,299	151,810	210,109	72%	552,280	222,668	171,222	2,897
Milam	32,682	123,750	156,432	79%	492,739	133,510	104,065	3,120
Williamson	45,113	50,574	95,687	53%	380,184	159,219	126,142	865
Subtotal, Blacklands	417,941	891,321	1,309,262	69%	5,784,915	1,642,716	1,124,362	35,113
Cross Timbers								
Callahan	1,999	20,702	22,701	91%	468,449	73,592	18,248	69
Comanche	23,627	244,767	268,394	91%	596,256	169,567	75,880	23,210
Eastland	4,339	32,637	36,976	88%	519,189	87,490	28,730	2,871
Erath	43,591	446,421	490,012	91%	675,439	140,689	66,256	15,397
Hood	12,953	9,598	22,551	43%	124,769	36,354	23,407	3,451
Palo Pinto	4,199	44,366	48,565	91%	608,448	62,486	25,992	1,601
Shackelford	980	15,421	16,401	94%	497,940	48,665	*	1,650
Somervell	4,091	3,182	7,273	44%	99,570	29,788	9,721	1,410
Stephens	950	8,347	9,297	90%	387,474	28,903	4,763	*
Throckmorton	5,469	32,504	37,973	86%	583,977	100,079	*	*
Young	5,008	24,812	29,820	83%	483,160	88,121	38,140	88
Subtotal, Cross Timbers	107,206	882,757	989,963	81%	5,044,671	865,734	291,137	49,747
East Texas South and South Central								
Brazos	10,098	112,819	122,917	92%	277,682	26,326	20,868	3,946
Burleson	25,068	79,322	104,390	76%	300,620	75,544	55,301	9,770
Grimes	15,847	67,389	83,236	81%	502,510	55,748	44,523	5,859
Lee	14,945	74,251	89,196	83%	341,764	47,350	28,379	967
Robertson	20,376	197,286	217,662	91%	459,840	122,555	68,563	12,139

Agricultural District	*Market Value ($1,000)*			*Livestock % Value*	*Area (Acres)*			
	Crops	*Livestock*	*Total*		*Farmland*	*Cropland*	*Harvested*	*Irrigated*
Washington	17,914	33,875	51,789	65%	374,608	57,270	45,664	1,804
Subtotal, East Texas South & South Central	104,248	564,942	669,190	81%	2,257,024	384,793	263,298	34,485
Southern Low Plains								
Fisher	23,218	28,335	51,553	55%	387,119	206,781	56,567	4,072
Haskell	37,825	11,834	49,659	24%	542,383	332,574	108,885	16,601
Jones	16,349	57,423	73,772	78%	564,608	313,674	76,877	4,246
Kent	1,741	8,108	9,849	82%	589,592	62,879	7,052	563
Knox	14,820	11,921	26,741	45%	544,231	175,071	56,558	9,323
Nolan	8,533	14,639	23,172	63%	403,121	107,186	25,783	2,130
Stonewall	2,460	12,001	14,461	83%	476,804	67,425	8,823	2,920
Taylor	8,735	11,810	20,545	57%	365,679	161,022	49,658	595
Subtotal, Southern Low Plains	113,681	156,071	269,752	61%	3,873,537	1,426,612	390,203	40,450
Region Total	**743,076**	**2,495,091**	**3,238,167**	**73%**	**16,960,147**	**4,319,855**	**2,069,000**	**159,795**

Source: 2022 Census of Agriculture: https://quickstats.nass.usda.gov/

*Information withheld to avoid disclosing data for individual farms.

Table E-2 Livestock Numbers - 2022 Census of Agriculture

Agricultural District	*Cattle and Calves*	*Beef Cows*	*Dairy Cows*	*Swine*	*Sheep*
Blacklands					
Bell	51,483	20,347	0	1,129	6,284
Bosque	47,253	*	*	898	2,705
Coryell	63,294	28,043	0	722	8,928
Falls	129,740	*	*	103	1,526
Hamilton	64,695	25,084	12,279	149	9,093
Hill	51,427	*	*	556	5,253
Johnson	39,647	22,674	2,489	592	3,679
Lampasas	27,057	*	*	1,295	7,273
Limestone	76,331	*	*	680	3,596
Mclennan	86,476	34,371	3,606	453	5,406
Milam	99,601	*	*	669	2,498
Williamson	44,765	*	*	493	4,113
Subtotal, Blacklands	781,769	130,519	18,374	7,739	60,354
Cross Timbers					
Callahan	33,909	17,302	0	171	4,067
Comanche	117,228	40,702	30,843	95	11,713
Eastland	37,464	*	*	398	2,220
Erath	171,459	37,211	57,418	1,025	5,273
Hood	15,773	9,700	0	339	1,385
Palo Pinto	47,357	*	*	147	1,088
Shackelford	23,795	14,056	0	60	*
Somervell	6,787	*	*	20	296
Stephens	18,280	*	*	26	310
Throckmorton	44,997	20,988	0	0	0
Young	41,200	*	*	720	728
Subtotal, Cross Timbers	558,249	139,959	88,261	3,001	27,080
East Texas South and South Central					
Brazos	51,794	*	*	1,188	2,506
Burleson	61,788	*	*	469	1,093
Grimes	104,709	*	*	582	483
Lee	91,280	*	*	217	510
Robertson	96,180	52,855	4,024	154	613
Washington	57,182	*	*	903	665
Subtotal, East Texas South & South Central	462,933	52,855	4,024	3,513	5,870

Agricultural District	*Cattle and Calves*	*Beef Cows*	*Dairy Cows*	*Swine*	*Sheep*
Southern Low Plains					
Fisher	18,749	6,703	0	33	1,194
Haskell	19,706	8,785	0	*	*
Jones	45,271	13,761	0	371	1,181
Kent	11,954	8,614	0	46	0
Knox	21,063	8,369	0	60	1,215
Nolan	22,865	7,224	0	111	79
Stonewall	19,415	9,051	0	218	160
Taylor	13,457	8,726	0	691	1,530
Subtotal, Southern Low Plains	172,480	71,233	0	1,530	5,359
Region Total	**1,975,431**	**394,566**	**110,659**	**15,783**	**98,663**
Source: 2022 Census of Agriculture: https://quickstats.nass.usda.gov/ *Information withheld to avoid disclosing data for individual farms.					

Agricultural District	*Cattle and Calves*	*Beef Cows*	*Dairy Cows*	*Swine*	*Sheep*
Blacklands					
Bell	51,483	20,347	0	1,129	6,284
Bosque	47,253	*	*	898	2,705
Coryell	63,294	28,043	0	722	8,928
Falls	129,740	*	*	103	1,526
Hamilton	64,695	25,084	12,279	149	9,093
Hill	51,427	*	*	556	5,253
Johnson	39,647	22,674	2,489	592	3,679
Lampasas	27,057	*	*	1,295	7,273
Limestone	76,331	*	*	680	3,596
Mclennan	86,476	34,371	3,606	453	5,406
Milam	99,601	*	*	669	2,498
Williamson	44,765	*	*	493	4,113
Subtotal, Blacklands	781,769	130,519	18,374	7,739	60,354
Cross Timbers					
Callahan	33,909	17,302	0	171	4,067
Comanche	117,228	40,702	30,843	95	11,713
Eastland	37,464	*	*	398	2,220
Erath	171,459	37,211	57,418	1,025	5,273
Hood	15,773	9,700	0	339	1,385
Palo Pinto	47,357	*	*	147	1,088
Shackelford	23,795	14,056	0	60	*

Agricultural District	*Cattle and Calves*	*Beef Cows*	*Dairy Cows*	*Swine*	*Sheep*
Somervell	6,787	*	*	20	296
Stephens	18,280	*	*	26	310
Throckmorton	44,997	20,988	0	0	0
Young	41,200	*	*	720	728
Subtotal, Cross Timbers	558,249	139,959	88,261	3,001	27,080
East Texas South and South Central					
Brazos	51,794	*	*	1,188	2,506
Burleson	61,788	*	*	469	1,093
Grimes	104,709	*	*	582	483
Lee	91,280	*	*	217	510
Robertson	96,180	52,855	4,024	154	613
Washington	57,182	*	*	903	665
Subtotal, East Texas South & South Central	462,933	52,855	4,024	3,513	5,870
Southern Low Plains					
Fisher	18,749	6,703	0	33	1,194
Haskell	19,706	8,785	0	*	*
Jones	45,271	13,761	0	371	1,181
Kent	11,954	8,614	0	46	0
Knox	21,063	8,369	0	60	1,215
Nolan	22,865	7,224	0	111	79
Stonewall	19,415	9,051	0	218	160
Taylor	13,457	8,726	0	691	1,530
Subtotal, Southern Low Plains	172,480	71,233	0	1,530	5,359
Region Total	**1,975,431**	**394,566**	**110,659**	**15,783**	**98,663**

Source: 2022 Census of Agriculture: https://quickstats.nass.usda.gov/

*Information withheld to avoid disclosing data for individual farms.

Table E-3 Selected Crop Acreages—2017 Census of Agriculture

Agricultural District	*Grains*		*Wheat*	*Cotton*	*Soybeans*	*All Hay & Silage*	*Peanuts*	*Total in County*
	Corn	*Sorghum*						
Blacklands								
Bell	69,171	3,305	16,783	6,215	714	29,681	*	125,869
Bosque	490	*	2,277	*	0	23,999	0	26,766
Coryell	6,018	3,735	13,163	*	*	25,972	0	48,888
Falls	55,919	5,369	18,359	5,609	4,296	43,175	0	132,727
Hamilton	*	1,785	2,545	*	*	20,896	0	25,226
Hill	56,080	2,487	57,141	16,486	*	44,837	0	177,031
Johnson	24,159	3,048	14,873	2,126	*	43,566	0	87,772
Lampasas	*	0	675	0	0	10,033	0	10,708
Limestone	*	*	*	3,961	0	27,164	0	31,125
Mclennan	45,873	4,193	34,065	4,174	60	53,645	0	142,010
Milam	29,961	3,419	5,730	6,581	*	52,960	0	98,651
Williamson	70,274	2,235	11,810	10,480	*	30,242	0	125,041
Subtotal, Blacklands	357,945	29,576	177,421	55,632	5,070	406,170	0	1,031,814
Cross Timbers								
Callahan	0	*	4,917	0	0	13,094	0	18,011
Comanche	*	1,152	3,517	3,330	0	44,626	510	53,135
Eastland	*	*	3,355	337	0	24,371	*	28,063
Erath	744	1,020	3,123	579	0	52,629	335	58,430
Hood	0	0	*	0	0	20,203	0	20,203
Palo Pinto	0	*	2,712	0	*	19,056	0	21,768
Shackelford	0	518	1,898	*	0	4,981	0	7,397
Somervell	0	*	*	0	0	9,287	0	9,287
Stephens	435	0	516	0	601	3,207	0	4,759
Throckmorton	0	*	22,700	4,203	*	7,566	0	34,469
Young	0	0	21,604	*	0	16,379	0	37,983
Subtotal, Cross Timbers	1,179	2,690	64,342	8,449	601	215,399	845	293,505
East Texas South and South Central								
Brazos	*	*	0	*	0	16,229	0	16,229
Burleson	11,693	2,553	941	6,486	*	30,674	0	52,347
Grimes	*	*	0	*	0	41,386	0	41,386
Lee	348	0	*	0	0	27,355	0	27,703
Robertson	8,712	2,823	*	8,009	*	45,205	0	64,749
Washington	*	0	0	0	0	44,821	0	44,821
Subtotal, East Texas South & South Central	20,753	5,376	941	14,495	0	205,670	0	247,235

Agricultural District	*Grains*		*Wheat*	*Cotton*	*Soybeans*	*All Hay & Silage*	*Peanuts*	*Total in County*
	Corn	*Sorghum*						
Southern Low Plains								
Fisher	*	*	17,783	31,861	0	5,369	0	55,013
Haskell	*	3,097	43,745	43,681	*	9,240	1,594	101,357
Jones	0	2,102	46,899	12,720	*	13,776	0	75,497
Kent		*	*	772	*	2,054	0	2,826
Knox	*	*	41,369	9,419	0	6,630	0	57,418
Nolan	*	*	12,348	7,776	*	5,007	0	25,131
Stonewall	0	*	1,164	5,343	0	2,252	0	8,759
Taylor	*	*	29,203	6,164	0	12,886	0	48,253
Subtotal, Southern Low Plains	0	5,199	192,511	117,736	0	57,214	1,594	374,254
Region Total	**379,877**	**42,841**	**435,215**	**196,312**	**5,671**	**884,453**	**2,439**	**1,946,808**

Source: 2022 Census of Agriculture: https://quickstats.nass.usda.gov/

*Information withheld to avoid disclosing data for individual farms.

Table E-4 Summary of Irrigation Surveys

Agricultural District	*Irrigated Acreage*						
	1994 TWDB Survey	*1997 US Agricultural Census*	*2002 US Agricultural Census*	*2007 US Agricultural Census*	*2012 US Agricultural Census*	*2017 US Agricultural Census*	*2022 US Agricultural Census*
Blacklands							
Bell	1,212	956	2,690	2,746	3,084	2,305	1,337
Bosque	2,136	1,999	1,592	1,043	656	1,366	2,923
Coryell	330	363	1,050	767	420	1,372	2,563
Falls	5,057	4,763	1,424	4,361	5,069	3,964	4,713
Hamilton	775	1,092	1,064	763	619	1,509	1,979
Hill	283	259	3,864	1,189	920	1,197	11,024
Johnson	0	0	1,004	1,907	2,386	3,735	1,494
Lampasas	243	380	445	437	166	447	918
Limestone	0	0	539	759	330	479	1,280
Mclennan	1,180	2,613	3,194	2,937	3,509	2,232	2,897
Milam	799	638	2,631	2,784	2,486	2,680	3,120
Williamson	0	0	3,810	964	1,281	1,586	865
Subtotal, Blacklands	12,015	13,063	23,307	20,657	20,926	22,872	35,113
Cross Timbers							
Callahan	1,355	761	1,331	633	704	228	69
Comanche	42,411	44,972	21,283	12,627	18,101	17,388	23,210
Eastland	13,280	13,280	14,594	5,141	8,930	1,862	2,871
Erath	14,155	15,094	14,505	12,101	12,337	14,310	15,397
Hood	3,919	4,064	3,433	4,336	2,821	2,746	3,451
Palo Pinto	537	371	1,902	601	712	4,383	1,601
Shackelford	299	212	550	*	*	315	1,650
Somervell	810	474	129	473	59	348	1,410
Stephens	870	393	195	226	*	274	*
Throckmorton	0	0	*	1,358	*	384	*
Young	0	0	114	*	229	1,863	88
Subtotal, Cross Timbers	77,636	79,621	58,036	37,496	43,893	44,101	49,747
East Texas South and South Central							
Brazos	10,250	8,542	14,001	9,027	7,291	12,059	3,946
Burleson	13,512	8,410	17,415	14,480	19,598	17,941	9,770
Grimes	277	431	2,659	1,991	1,609	3,981	5,859
Lee	703	565	2,377	1,433	940	788	967
Robertson	17,381	17,381	19,179	21,541	19,679	20,356	12,139
Washington	188	92	1,041	1,438	1,438	2,318	1,804

Agricultural District	*Irrigated Acreage*						
	1994 TWDB Survey	***1997 US Agricultural Census***	***2002 US Agricultural Census***	***2007 US Agricultural Census***	***2012 US Agricultural Census***	***2017 US Agricultural Census***	***2022 US Agricultural Census***
Subtotal, East Texas South & South Central	42,311	35,421	56,672	49,910	50,555	57,443	34,485
Southern Low Plains							
Fisher	1,785	1,838	3,284	4,569	2,553	10,483	4,072
Haskell	30,402	34,313	30,894	35,058	27,500	14,799	16,601
Jones	8,975	5,431	3,701	3,877	3,576	4,584	4,246
Kent	1,133	905	1,300	815	1,092	*	563
Knox	35,500	28,347	23,033	21,929	21,583	11,204	9,323
Nolan	2,562	2,581	2,987	5,158	3,307	3,500	2,130
Stonewall	647	605	1,454	2,399	741	829	2,920
Taylor	1,130	317	2,434	5,087	1,095	1,237	595
Subtotal, Southern Low Plains	82,134	74,337	69,087	78,892	61,447	46,636	40,450
Region Total	**214,096**	**202,442**	**207,102**	**186,955**	**176,821**	**171,052**	**159,795**
*Information withheld to avoid disclosing data for individual farms.							

APPENDIX F

SURFACE WATER SUPPLIES

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Appendix F: Surface Water Supplies

Table F-1 Brazos River Basin Water Rights

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2201		COPELAND, A B JR	197.00	AGRICULTURE - IRRIGATION	03/18/1968			197.00
2202		Alice Anne Everett Brown	98.72	AGRICULTURE - IRRIGATION	08/21/1972			252.00
2202		Alice Anne Everett Brown Robin L. Brown	1.28	AGRICULTURE - IRRIGATION	08/21/1972			
2203		JONES, LARRY R		DOMESTIC AND LIVESTOCK	08/21/1972			252.00
2204		RANKIN, JERRY J RANKIN, SALLY FRANCINE		DOMESTIC AND LIVESTOCK	08/21/1972			252.00
2205		J&C Bachus Family Trust	147.62	AGRICULTURE - IRRIGATION	12/21/1970			307.00
2205		BERRY, ANGELA BERRY, ROBERT	2.38	AGRICULTURE - IRRIGATION	12/21/1970			
2206		BRANCH, LINDA SUE BRANCH, RONNIE DUANE	60.00	AGRICULTURE - IRRIGATION	01/03/1972			185.00
2207		STONE, ELVIS RAY JR STONE, ELVIS RAY SR	23.00	AGRICULTURE - IRRIGATION	01/03/1972			185.00
2208		ELIZABETH ANN MOCEK JOHN MOCEK	20.00	AGRICULTURE - IRRIGATION	07/06/1971			
2208		B. Fanning	18.52	AGRICULTURE - IRRIGATION	07/06/1971			
2208		Oak Dale Farms	14.92	AGRICULTURE - IRRIGATION	07/06/1971			121.00
2208		Jade Corkill	5.54	AGRICULTURE - IRRIGATION	07/06/1971			
2208		Robin Fanning FANNING, TODD M	0.73	AGRICULTURE - IRRIGATION	07/06/1971			
2208		Gregory Fanning	0.28	AGRICULTURE - IRRIGATION	07/06/1971			
2209		Melanie Lane Steven Gary Lane	1.49	AGRICULTURE - IRRIGATION	09/12/1977			7.00
2209		Steven Gary Lane	1.45	AGRICULTURE - IRRIGATION	09/12/1977			7.00
2209		Rope 'N Rod, LLC	0.06	AGRICULTURE - IRRIGATION	09/12/1977			7.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2210		JARRATT, RAYMOND L	92.00	AGRICULTURE - IRRIGATION	04/01/1953			
2211		HAH Land and Cattle LLC	85.00	AGRICULTURE - IRRIGATION	01/24/1977			147.00
2215		Great Southern Ranch, Inc.	54.00	AGRICULTURE - IRRIGATION	02/26/1968			160.00
2216		Gloria Ray Carpenter Linda Ray Henderson Albert C. Ray Barbara L. Ray Clayton W. Ray	54.00	AGRICULTURE - IRRIGATION	02/26/1968			160.00
2217		Marilyn Braun Casey Oscar Frazier Jr.		DOMESTIC AND LIVESTOCK	02/05/1973			200.00
2219		G & J Banks Investments, LLC	13.00	AGRICULTURE - IRRIGATION	12/31/1964			
2220		PACK, HAROLD	12.00	AGRICULTURE - IRRIGATION	05/31/1963			
2221		Betty Yvon Lesley LESLEY, KENNETH	82.00	AGRICULTURE - IRRIGATION	11/04/1999			
2221	B	Betty Yvon Lesley LESLEY, KENNETH	18.00	AGRICULTURE - IRRIGATION	12/31/1962			
2222		MAYO, BEAU MAYO, LAURA	110.00	AGRICULTURE - IRRIGATION	10/31/1962			
2223		Jason T. Lovell Virginia A. Lovell		AGRICULTURE - IRRIGATION	08/15/1977			
2223		William Gregory Thaggard		AGRICULTURE - IRRIGATION	08/15/1977			
2224		HICKIE, VALERIE JANE		DOMESTIC AND LIVESTOCK RECREATION	03/11/1974			280.00
2225		MURRAY, TY	34.00	AGRICULTURE - IRRIGATION	06/30/1966			
2226		OSINGA, JOSEPH WILSON VELSEN, BERT MARCEL	61.00	AGRICULTURE - IRRIGATION	07/31/1960			
2227		Barrie Lynn Smith Bradford R. Smith	49.73	AGRICULTURE - IRRIGATION	11/18/1965			
2227		G. Kyle Everett Kerri Lynn Everett	9.34	AGRICULTURE - IRRIGATION	11/18/1965			87.50
2227		Estate of Charles S. Everett and Waynell Barham Everett	0.93	AGRICULTURE - IRRIGATION	11/18/1965			
2228		Erma Richardson	60.00	AGRICULTURE - IRRIGATION	02/26/1968			272.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2229		Bonnie Dee Crumley WILLIAM T CRUMLEY	44.00	AGRICULTURE - IRRIGATION	05/31/1953			
2230		MURRAY, TY	76.00	AGRICULTURE - IRRIGATION	10/24/1966			200.00
2231		BOUCHER, MARY RUTH	42.00	AGRICULTURE - IRRIGATION	10/24/1966			200.00
2232		E BAR RANCH REAL ESTATE, LLC	16.00	AGRICULTURE - IRRIGATION	03/25/1968			172.00
2233		MOELLER, ARNOLD T	18.00	AGRICULTURE - IRRIGATION	07/31/1957			
2234		Cili, LLC	125.00	AGRICULTURE - IRRIGATION	12/31/1963			
2235		7 M Ranch Trust	8.00	AGRICULTURE - IRRIGATION	04/30/1963			
2236		Cili, LLC	24.00	AGRICULTURE - IRRIGATION	12/31/1961			
2237		Blankenship Family Trust	90.00	AGRICULTURE - IRRIGATION	06/04/1958			181.00
2238		Jon David Mayfield Trust	106.02	AGRICULTURE - IRRIGATION	07/31/1955			60.00
2238		MAYFIELD, LYNDA KIKER	89.98	AGRICULTURE - IRRIGATION	07/31/1955			149.00
2239		LINNE, A H LINNE, JOHN WEBB	27.58	AGRICULTURE - IRRIGATION	06/27/1955			164.00
2239		LINNE, JOHN WEBB	4.42	AGRICULTURE - IRRIGATION	06/27/1955			
2240		MAYFIELD, A DWAIN MAYFIELD, JON DAVID MAYFIELD, LYNDA K	137.00	AGRICULTURE - IRRIGATION	10/13/1970			137.00
2241		TULLEY, JERI LENAI	33.00	AGRICULTURE - IRRIGATION	12/22/1969			148.00
2242		HAMPTON, BARBARA	40.00	AGRICULTURE - IRRIGATION	12/22/1969			148.00
2243		Judith Jean Robbins Lemons Betty E. Robbins Carol Jane Robbins	90.00	AGRICULTURE - IRRIGATION	09/08/1958			188.00
2244		MCLEAN, DONALD	27.00	AGRICULTURE - IRRIGATION	02/02/1965			54.00
2245		Maunell Baker	12.72	AGRICULTURE - IRRIGATION	02/02/1965			54.00
2245		HEIZER, DORIS S	5.32	AGRICULTURE - IRRIGATION	02/02/1965			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2245		Dustin Arrott Mandy Arrott	1.96	AGRICULTURE - IRRIGATION	02/02/1965			
2246		MITCHELL, DON MITCHELL, LOLA	152.00	AGRICULTURE - IRRIGATION	03/30/1966			199.00
2247		Bar To Lo Corporation	35.00	AGRICULTURE - IRRIGATION	04/08/1968			179.00
2247		Bar To Lo Corporation		DOMESTIC AND LIVESTOCK	07/13/1995			27.00
2248		Luciano Haros Maria Dolores Haros	62.00	AGRICULTURE - IRRIGATION	09/30/1957			179.00
2249		BENSON, DOLORES C BENSON, THOMAS H	19.00	AGRICULTURE - IRRIGATION	04/08/1968			179.00
2250		SHADDEN, JAMES ALLEN	4.00	AGRICULTURE - IRRIGATION	07/31/1967			
2251		Tommy Trimble Jr.	28.00	AGRICULTURE - IRRIGATION	07/18/1963			
2252		J. Putty Trustee PUTTY, JB	30.00	AGRICULTURE - IRRIGATION	12/31/1963			
2253		J P Cattle Company		DOMESTIC AND LIVESTOCK	07/30/1973			270.00
2254		PUTTY, W E	65.00	AGRICULTURE - IRRIGATION	12/31/1955			
2255		DUNCAN, GARY W DUNCAN, GEORGETTA E	84.52	AGRICULTURE - IRRIGATION	12/31/1962			
2255		DUNCAN, ANN S DUNCAN, WAYNE V	47.65	AGRICULTURE - IRRIGATION	12/31/1962			
2255		BOYKIN, PAULA S BOYKIN, ROBERT L	26.83	AGRICULTURE - IRRIGATION	12/31/1962			
2258		Amelia Spolec Robert Spolec	32.00	AGRICULTURE - IRRIGATION	12/31/1966			
2259		Four Z Family Limited Partnership	112.00	AGRICULTURE - IRRIGATION	12/31/1965			
2260		William F. Garrison Dianne Stone	56.00	AGRICULTURE - IRRIGATION	07/31/1950			
2261		PARKS, CECIL	8.00	AGRICULTURE - IRRIGATION	12/31/1967			
2262		BEAIRD, VERNON CLARK	30.00	AGRICULTURE - IRRIGATION	12/31/1967			
2263		SLOAN, JUNE P SLOAN, WILLIAM VAN ZANDT	65.00	AGRICULTURE - IRRIGATION	12/31/1959			
2264		SLOAN, JUNE P SLOAN, WILLIAM VAN ZANDT	45.00	AGRICULTURE - IRRIGATION	12/31/1955			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2265		FILLINGIM, DEREL	165.48	AGRICULTURE - IRRIGATION	12/31/1955			
2265		Investments Twenty Five, Inc.	102.52	AGRICULTURE - IRRIGATION	12/31/1955			
2266		BUTZ, KARL T JR	18.00	AGRICULTURE - IRRIGATION	12/31/1966			
2267		BATTERSHELL, MARGO JOY PARTAIN TIMOTHY J. PARTAIN WAYNE E. PARTAIN	6.00	AGRICULTURE - STOCKRAISING	12/31/1947			
2267		BATTERSHELL, MARGO JOY PARTAIN	0.75	AGRICULTURE - IRRIGATION	12/31/1947			
2267		TIMOTHY J. PARTAIN	0.24	AGRICULTURE - IRRIGATION	12/31/1947			
2267		WAYNE E. PARTAIN	0.02	AGRICULTURE - IRRIGATION	12/31/1947			
2268		MT Camp B Ranch, LLC	11.00	AGRICULTURE	12/31/1963			
2269		LOTT, MICHAEL J LOTT, MYRNA	4.00	AGRICULTURE - IRRIGATION	12/31/1966			
2270		J. Pat Turner Wilda E. Turner	24.00	AGRICULTURE - IRRIGATION	05/31/1967			26.00
2271		4SES, LLC	15.00	AGRICULTURE - IRRIGATION	12/31/1950			
2272		KKW2, Ltd.	42.00	AGRICULTURE - IRRIGATION	12/31/1966			
2273		LONG, W F	75.39	AGRICULTURE - IRRIGATION	11/06/1979			
2273		FAIN FAMILY FIRST LIMITED PARTNERSHIP	22.61	AGRICULTURE - IRRIGATION	11/06/1979			
2273		FAIN FAMILY FIRST LIMITED PARTNERSHIP LONG, W F		AGRICULTURE - IRRIGATION	11/06/1979			528.00
2276		Double Springs Partnership, Ltd.	155.00	AGRICULTURE - IRRIGATION	10/20/1969			3,309.00
2276		Double Springs Partnership, Ltd.	90.00	AGRICULTURE - IRRIGATION	12/31/1954			90.00
2276		Double Springs Partnership, Ltd.	81.00	AGRICULTURE - IRRIGATION	10/20/1969			
2277		PETERS, RAMONA R PETERS, THOMAS G	10.00	AGRICULTURE - IRRIGATION	12/31/1951			
2278		Ann Moody Tommy Moody	114.00	AGRICULTURE - IRRIGATION	12/31/1966			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2279		John David Bell Tracey A. Bell	9.00	AGRICULTURE - IRRIGATION	12/31/1967			
2280		John David Bell Tracey A. Bell	69.00	AGRICULTURE - IRRIGATION	07/31/1955			
2281		MILLER, RAY J	7.00	AGRICULTURE - IRRIGATION	04/30/1960			
2282		C.R. Eason, Jr. Investments, L.P. Hoppy Eason's Rocking E Ranch, L.P. Johnson County Road 312, L.P.	253.00	AGRICULTURE - IRRIGATION	12/31/1958			
2283		WESTBROOK, EVA SUE	6.40	AGRICULTURE - IRRIGATION RECREATION	12/31/1964			
2283		RUSSELL, STACEY ST CLAIR	1.60	AGRICULTURE - IRRIGATION RECREATION	12/31/1964			
2284		Diane Howard E. Howard Iola Faye Howard L. C. Howard Jr.	25.00	AGRICULTURE - IRRIGATION	12/31/1939			
2285		Berg's River Ridge Ranch, Ltd.	35.00	AGRICULTURE - IRRIGATION	12/31/1949			
2287		HODGES, BILLY G HODGES, IRIS SORLEY	7.00	AGRICULTURE - IRRIGATION	12/31/1965			13.00
2288		HODGES, KERRYE FAYE HODGES, SHANNON LAIRD HODGES, SIDNEY LEE	3.50	AGRICULTURE - IRRIGATION	12/31/1965			
2289		Texas Parks And Wildlife Department		RECREATION	09/22/1969			360.00
2290		CROSLEY, JAMES CROSLEY, LINNIE B	28.90	AGRICULTURE - IRRIGATION	12/31/1956			
2290		JENSON, J L	16.10	AGRICULTURE - IRRIGATION	12/31/1956			
2291		City of Clifton	600.00	MUNICIPAL/DOMESTIC	03/14/1963			100.00
2291		City of Clifton	7.00	AGRICULTURE - IRRIGATION	12/31/1963			
2292		GLOFF, W O	261.00	AGRICULTURE - IRRIGATION	12/31/1949			
2293		Casaundra Lea Talbott	7.00	AGRICULTURE - IRRIGATION	12/31/1905			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2294		LUNDBERG, J LES LUNDBERG, MIRIAM L LUNDBERG, RICHARD D	80.00	AGRICULTURE - IRRIGATION	06/30/1946			
2295		LINDBERG, NALLIE LINDBERG, REGINALD W	49.00	AGRICULTURE - IRRIGATION	06/30/1953			
2298		STEVENS, CHARLES E	104.00	AGRICULTURE - IRRIGATION	04/05/1965			
2299		BULLION, D I	22.00	AGRICULTURE - IRRIGATION	12/31/1960			
2300		David Hopson PAMELA ANN HOPSON	57.57	AGRICULTURE - IRRIGATION	12/31/1967			
2300		HIX, JIM S HIX, W T HIX, WILLIAM J	42.43	AGRICULTURE - IRRIGATION	12/31/1967			
2301		KAMM, ABIGAIL HALBERT	70.00	AGRICULTURE - IRRIGATION	05/31/1958			
2302		CAPERTON, STEVEN K Sue Ann Caperton	122.00	AGRICULTURE - IRRIGATION	12/31/1966			
2303		Shemane A. Nugent Theodore Nugent	30.00	AGRICULTURE - IRRIGATION	06/30/1955			
2304		Shemane A. Nugent Theodore Nugent	43.87	AGRICULTURE - IRRIGATION	06/30/1955			
2304		DAVIS, HUGH WHITFIELD	3.13	AGRICULTURE - IRRIGATION	06/30/1955			
2305		S & S Ranch Holdings, L.L.C.	40.00	AGRICULTURE - IRRIGATION	07/31/1963			
2306		Tommy L. Hooker Jr. Karina Loya	4.05	AGRICULTURE - IRRIGATION	12/31/1899			
2306		Lynda Gail Powers	0.89	AGRICULTURE - IRRIGATION	12/31/1899			
2306		Sterling Trust Company	0.06	AGRICULTURE - IRRIGATION	12/31/1899			
2307		CARROLL, SAMUEL N CARROLL, TESSIE B	23.00	AGRICULTURE - IRRIGATION	12/31/1963			
2308		WESTERFIELD, IRA H	10.00	AGRICULTURE - IRRIGATION	07/31/1966			
2309		CLEMMONS, JERRY CLEMMONS, JOY	10.00	AGRICULTURE - IRRIGATION	12/31/1967			
2310		HERING, JIM	16.00	AGRICULTURE - IRRIGATION	12/31/1946			18.00
2311		HIX, W T		DOMESTIC AND LIVESTOCK	05/16/1977			740.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2312		Swann Family Ranch, LLC	83.12	AGRICULTURE - IRRIGATION	12/31/1950			55.00
2312		BALCONES CROSSING LLC	78.88	AGRICULTURE - IRRIGATION	12/31/1950			55.00
2313		WESTERFIELD, IRA H	14.00	AGRICULTURE - IRRIGATION	07/31/1965			5.00
2314		Rainbow Lake		RECREATION	12/31/1930			105.00
2315	E	City of Waco	39,100.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC WATER QUALITY	01/10/1929			104,100.00
2315	E	City of Waco	19,100.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC WATER QUALITY	04/16/1958			
2315		City of Waco	16,802.00	INDUSTRIAL	01/10/1929			
2315		City of Waco	900.00	AGRICULTURE - IRRIGATION	02/21/1979			
2316		C. L. Sligh Farms	184.00	AGRICULTURE - IRRIGATION	10/30/1925			
2316		C. L. Sligh Farms	9.00	AGRICULTURE - IRRIGATION	09/01/1953			
2317	B	City of Waco	248.00	AGRICULTURE AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	11/20/1918			
2318	A	Confluence Partners, Ltd.	35.00	AGRICULTURE - IRRIGATION	12/31/1957			
2813		HOLLY RAE SOHNS RYAN MICHAEL SOHNS	153.00	AGRICULTURE - IRRIGATION	07/22/1965			
2814	A	Natural Dairy Grower Land, LP	198.60	AGRICULTURE - IRRIGATION	12/31/1953			
2814		Charlie Thomas	170.00	AGRICULTURE - IRRIGATION	12/31/1953			
2814		ADAMS, LARRY WAYNE	3.00	AGRICULTURE - IRRIGATION	12/31/1953			
2814		Grace Olena Adams	0.00	AGRICULTURE - IRRIGATION	12/31/1953			3.00
2814	B	ADAMS, LARRY WAYNE		AGRICULTURE	01/26/2017			1.24

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2814	B	ADAMS, LARRY WAYNE		AGRICULTURE	01/26/2017			0.71
2814	B	ADAMS, LARRY WAYNE		AGRICULTURE	01/26/2017			0.29
2815		ALLEN, JIMMIE FRANK ALLEN, NANCY PAGE	69.00	AGRICULTURE - IRRIGATION	12/31/1968			
2816		Rodney Stephens, LP	36.00	AGRICULTURE - IRRIGATION	12/31/1968			
2818		Gunter Bros., Inc.	18.00	AGRICULTURE - IRRIGATION	08/31/1950			
2819		Gunter Bros., Inc.	32.00	AGRICULTURE - IRRIGATION	08/31/1950			
2820		Artesian Ranch, LLC	46.00	AGRICULTURE - IRRIGATION	12/31/1966			
2822	A	Artesian Ranch, LLC	403.25	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK				
2822	A	Artesian Ranch, LLC	135.00	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK	12/31/1965			
2822	A	Artesian Ranch, LLC		AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK	08/22/2014			5.37
2823		KUNKEL, LOUISE TATUM TATUM, JAMES DOUGLAS	22.00	AGRICULTURE - IRRIGATION	12/31/1957			
2824		THOMAS, CHARLES S THOMAS, LYNELLE	50.58	AGRICULTURE - IRRIGATION	12/31/1963			
2824		ABB Ranches, LLC	39.42	AGRICULTURE - IRRIGATION	12/31/1963			
2825		CARMICHAEL, MONTE E CARMICHAEL, MONTE JR	80.00	AGRICULTURE - IRRIGATION	03/31/1967			
2826		DENMAN, TRENT	46.00	AGRICULTURE - IRRIGATION	07/31/1966			
2827		JONES, GAYLON D JR JONES, TERESA	4.06	AGRICULTURE - IRRIGATION	12/31/1957			
2828		JONES, GAYLON D JR JONES, TERESA	24.00	AGRICULTURE - IRRIGATION	12/31/1957			
2829		JONES, GAYLON D JR JONES, TERESA	55.85	AGRICULTURE - IRRIGATION	03/31/1960			
2830		O.J. Blakey	87.00	AGRICULTURE - IRRIGATION	08/31/1954			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2830	B	ANDREWS, RONNIE ANDREWS, TERI	47.72	AGRICULTURE	12/31/1955			
2830		ANDREWS, RONNIE ANDREWS, TERI	30.00	AGRICULTURE - IRRIGATION	08/31/1954			
2831		Vernell Bertha Crow	57.00	AGRICULTURE - IRRIGATION	12/31/1960			
2832		Lee Moore Melinda Rose	47.00	AGRICULTURE - IRRIGATION	12/31/1966			
2833		WIGGS LAND AND CATTLE, LLC	24.00	AGRICULTURE - IRRIGATION	07/31/1966			
2834		Rodney Stephens, LP	25.38	AGRICULTURE - IRRIGATION	12/31/1961			
2834		Kelly C. Backhaus Stephen J. Backhaus	17.62	AGRICULTURE - IRRIGATION	12/31/1961			
2835		William Milton North	293.62	AGRICULTURE - IRRIGATION	05/31/1958			
2836		Frederick West Shave	87.00	AGRICULTURE - IRRIGATION	12/31/1967			
2837		David and Leslie De Jong Family Limited Partnership	135.92	AGRICULTURE - IRRIGATION	05/31/1958			
2837		David and Leslie De Jong Family Limited Partnership	47.46	AGRICULTURE - IRRIGATION	05/31/1967			
2838		Chris Craig	37.00	AGRICULTURE - IRRIGATION	12/31/1961			
2839		ANDREWS, RONNIE ANDREWS, TERI	38.52	AGRICULTURE - IRRIGATION	12/31/1961			
2839		ROSS, ED A ROSS, MARGARET	1.48	AGRICULTURE - IRRIGATION	12/31/1961			
2840		ANDREWS, RONNIE ANDREWS, TERI		AGRICULTURE - IRRIGATION	11/06/1978			13.00
2841		SWINDLE, JOYCE	26.70	AGRICULTURE - IRRIGATION	08/31/1965			71.00
2842		TYUS, BILLY JACK TYUS, PATSY	4.30	AGRICULTURE - IRRIGATION	08/31/1965			71.00
2843		Willis B. Simmons Inc.	29.00	AGRICULTURE - IRRIGATION	01/30/1967			
2844		Willis B. Simmons Inc.	29.00	AGRICULTURE - IRRIGATION	01/30/1967			59.00
2845		Willis B. Simmons Inc.	27.50	AGRICULTURE - IRRIGATION	06/10/1968			55.00
2846		Shirley Hall Couch	27.50	AGRICULTURE - IRRIGATION	06/10/1968			55.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2846		Shirley Hall Couch	10.50	AGRICULTURE - IRRIGATION	06/14/1971			15.00
2847		Nancy Hall Cowan	13.00	AGRICULTURE - IRRIGATION	12/31/1966			2.60
2848		STEPHEN, CARMELA STEPHEN, DAMON	31.50	AGRICULTURE - IRRIGATION	04/05/1971			71.00
2849		Henk Postmus	28.93	AGRICULTURE - IRRIGATION	04/05/1971			71.00
2849		Joseph S. Tomaski TOMASKI, MAUREEN CHARLOTTE	2.57	AGRICULTURE - IRRIGATION	04/05/1971			71.00
2850		Michael J. Barr Tammy Barr Jerry Hulsey	29.00	AGRICULTURE - IRRIGATION	12/31/1966			
2850		Michael J. Barr Tammy Barr Jerry Hulsey		AGRICULTURE - IRRIGATION	02/24/1969			24.00
2851		Vivian L. Barbee	87.00	AGRICULTURE - IRRIGATION	08/01/1966			
2851		Vivian L. Barbee	72.00	AGRICULTURE - IRRIGATION	12/31/1945			164.00
2852		AG TRS ONE LLC	149.00	AGRICULTURE - IRRIGATION	12/31/1964			
2853		JONES, CLARA JONES, GAYLON D	52.00	AGRICULTURE - IRRIGATION	12/31/1957			
2854		NEWSOM, ROY L NEWSOM, VERNON N	25.20	AGRICULTURE - IRRIGATION	12/31/1963			
2854		Cleta J. Stapp	18.80	AGRICULTURE - IRRIGATION	12/31/1963			
2855		THOMAS, CHARLIE THOMAS, LYNELLE	91.00	AGRICULTURE - IRRIGATION	12/31/1946			
2856		Jack Graham	1.00	AGRICULTURE - IRRIGATION	12/31/1954			
2857		HENDRIK KLAAS POSTMUS	105.28	AGRICULTURE - IRRIGATION	12/31/1955			
2858		HENDRIK KLAAS POSTMUS	18.00	AGRICULTURE - IRRIGATION	12/31/1967			
2859		DUNN, BOBBIE L DUNN, LARRY A	98.00	AGRICULTURE - IRRIGATION	12/31/1965			
2860		KAVANAUGH, EARL KAVANAUGH, ORENA WATTS, MAURINE K	15.00	AGRICULTURE - IRRIGATION	12/31/1936			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2861		WATSON, ACY L	1.00	AGRICULTURE - IRRIGATION	12/31/1967			5.00
2862		ANDERS, JUANITA MARTHA Melvin R. Anders	15.00	AGRICULTURE - IRRIGATION	10/31/1955			
2863		Riverside Ranch, LP	43.00	AGRICULTURE - IRRIGATION	12/31/1961			
2864		SPARKS, K A	185.00	AGRICULTURE - IRRIGATION	12/31/1934			
2865		Riverside Ranch, LP	169.00	AGRICULTURE - IRRIGATION	12/31/1934			
2866		Riverside Ranch, LP	82.00	AGRICULTURE - IRRIGATION	12/31/1939			
2867		WARREN, KIRBY J WARREN, KIRBY JACK	4.00	AGRICULTURE - IRRIGATION	12/31/1889			
2868		Nathan Carrol Abernathy Alyce Ann Poteet	50.00	AGRICULTURE - IRRIGATION	12/31/1908			
2869		ESTILL, JIMMIE Four Thirteen Incorporated TOOLEY, BETTY JEAN HARRIS	70.73	AGRICULTURE - IRRIGATION	12/31/1962			
2869		Four Thirteen Incorporated	29.25	AGRICULTURE - IRRIGATION	12/31/1962			
2869		Estate of Betty Jean Harris Tooley	5.02	AGRICULTURE - IRRIGATION	12/31/1962			
2870		City of Hamilton	614.00	MUNICIPAL/DOMESTIC	01/22/1923			614.00
2871		VMK Ranch, LLC	72.00	AGRICULTURE - IRRIGATION	12/31/1944			15.00
2872		VMK Ranch, LLC	2.50	INDUSTRIAL	12/31/1944			15.00
2873		MANNING, R F	20.00	AGRICULTURE - IRRIGATION	12/31/1964			
2874		Paula Meade Kunetka Jimmy Meade	85.00	AGRICULTURE - IRRIGATION	12/31/1954			75.00
2875		WARLICK, LEONARD T WARLICK, MATTIE Y	54.00	AGRICULTURE - IRRIGATION	12/31/1958			75.00
2876		David M. Kruger	15.00	AGRICULTURE - IRRIGATION	12/31/1963			
2877		Anice Chesebrough James Chesebrough Johnny O. Harper Mary F. Harper Joseph H. McGowen Mary H. McGowen	126.54	AGRICULTURE - IRRIGATION	12/31/1954			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2877		Anice Chesebrough James Chesebrough	14.03	AGRICULTURE - IRRIGATION	12/31/1954			
2877		Joseph H. McGowen Mary H. McGowen	9.43	AGRICULTURE - IRRIGATION	12/31/1954			
2878		WIGGS LAND AND CATTLE, LLC	37.00	AGRICULTURE - IRRIGATION	12/31/1957			
2879		WIGGS LAND AND CATTLE, LLC	93.00	AGRICULTURE - IRRIGATION	12/31/1960			
2879		WIGGS LAND AND CATTLE, LLC	46.00	AGRICULTURE - IRRIGATION	12/31/1960			12.00
2880		Texas Stardance Holdings, LP	19.00	AGRICULTURE - IRRIGATION	12/31/1945			
2881		COURTNEY, MOODY E	124.00	AGRICULTURE - IRRIGATION	12/31/1963			
2882		Texas Stardance Holdings, LP	196.00	AGRICULTURE - IRRIGATION	12/31/1950			
2883		COURTNEY, DAVID C	5.00	AGRICULTURE - IRRIGATION	12/31/1960			
2884		Texas Stardance Holdings, LP	200.00	AGRICULTURE - IRRIGATION	12/31/1954			
2885		COURTNEY, MOODY E	71.00	AGRICULTURE - IRRIGATION	12/31/1966			
2886		Leon Bend Ranch, LLC	10.00	AGRICULTURE - IRRIGATION	12/31/1966			
2887		Elizabeth A. Taylor John Taylor	30.00	AGRICULTURE - IRRIGATION	07/31/1964			
2888		George T. Reynolds Jocelyn Adams Reynolds	2.00	AGRICULTURE - IRRIGATION	12/31/1929			
2890		ROGERS, DON THOMAS	8.00	AGRICULTURE - IRRIGATION	12/31/1963			
2891		W. Moreland By Pass Trust	57.00	AGRICULTURE - IRRIGATION	08/31/1964			
2892		WHISENHUNT, MARY JANE WHISENHUNT, W N	32.00	AGRICULTURE - IRRIGATION	12/31/1957			
2893		ASHBY, SEABORN L	10.00	AGRICULTURE - IRRIGATION	08/01/1918			
2894		San Pablo Corporation	1.73	AGRICULTURE - IRRIGATION	12/31/1965			
2894		Aaron Bedell ELAINE BEDELL Diane DePrang	0.27	AGRICULTURE - IRRIGATION	12/31/1965			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2895		LAXSON, WILLIAM TRAVIS	29.00	AGRICULTURE - IRRIGATION	12/31/1959			
2896		HILSBERG, DAVID	94.00	AGRICULTURE - IRRIGATION	12/31/1965			
2896		CALLAWAY, MARGARET	30.00	AGRICULTURE - IRRIGATION	12/31/1965			
2897		David William Jenny Dorothy Ann Jenny	8.00	AGRICULTURE - IRRIGATION	12/31/1967			
2898		Sharon Egger Paxton	14.95	AGRICULTURE - IRRIGATION	12/31/1925			
2898		MACKIE, DONALD J MACKIE, SARA L	6.88	AGRICULTURE - IRRIGATION	12/31/1925			
2898		Patricia I. Johnson Tim Franklin Orwig	0.87	AGRICULTURE - IRRIGATION	12/31/1925			
2898		Jennifer J. Wood Nathanial D. Wood	0.30	AGRICULTURE - IRRIGATION	12/31/1925			
2899		Texas Department of Criminal Justice		AGRICULTURE - IRRIGATION	01/25/1971			
2900		PAMELA SUZANNE PARKER TROY WADE PARKER, JR	13.87	AGRICULTURE - IRRIGATION	12/31/1964			
2900		POWELL, CHARLES C	0.13	AGRICULTURE - IRRIGATION	12/31/1964			
2901		Morse Family Partnership, Ltd.	100.00	AGRICULTURE - IRRIGATION	12/31/1965			
2902		MCCORKLE, ELIZABETH C MCCORKLE, QUENTIN G	18.00	AGRICULTURE - IRRIGATION	12/31/1957			
2903		David Hopson	530.00	AGRICULTURE - IRRIGATION	11/08/1913			
2904		Karen S. Barnard Jones Estate of Sterlin J. Barnard	40.00	AGRICULTURE - IRRIGATION	12/31/1939			
2905		Estate of Dan G Davidson	14.00	AGRICULTURE - IRRIGATION	12/31/1967			
2906		David E. Carter Samuel R. Carter	26.00	AGRICULTURE - IRRIGATION	08/06/1925			
2906		Amanda K. Wolff Judson F. Wolff	10.00	AGRICULTURE - IRRIGATION	08/06/1925			
2907		THRASHER LEON RIVER RANCH, LLC	199.43	AGRICULTURE - IRRIGATION	12/31/1958			
2907		CHRISTI L. BLAKKOLB JOHN W. MUNZ	112.58	AGRICULTURE - IRRIGATION	12/31/1958			
2907		Bernard Miller Linda Miller	75.00	AGRICULTURE - IRRIGATION	12/31/1958			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2908		Estate of Dan G Davidson	22.00	AGRICULTURE - IRRIGATION	12/31/1967			
2909		SOHNS, TIMMY RALPH	26.00	AGRICULTURE - IRRIGATION	07/22/1965			
2910		SOHNS, TIMMY RALPH	77.00	AGRICULTURE - IRRIGATION	12/31/1963			
2911		LUEDTKE, DENNES CHARLES	74.00	AGRICULTURE - IRRIGATION	04/30/1963			
2914		GRIMES, MABEL RUTH GRIMES, PAT	18.00	AGRICULTURE - IRRIGATION	12/31/1928			
2915		MOORE, ROBERT L	38.00	AGRICULTURE - IRRIGATION	03/31/1959			
2916		SCHWARTZ, LEE ROY	53.00	AGRICULTURE - IRRIGATION	05/31/1959			
2917		WITZSCHE, RUTH WITZSCHE, WILFORD	25.00	AGRICULTURE - IRRIGATION	03/31/1963			8.00
2918		MARWITZ, PAMELA ANN	20.00	AGRICULTURE - IRRIGATION	04/30/1949			2.00
2920		Alan Doug Hopper	12.00	AGRICULTURE - IRRIGATION	05/31/1965			6.00
2921		HOPPER, ANITA FAYE HOPPER, W J	28.00	AGRICULTURE - IRRIGATION	03/31/1967			
2922		HOPPER, EDNA	9.00	AGRICULTURE - IRRIGATION	06/30/1966			
2923		Samuel J. Corman Mary Hollis Howell	32.72	AGRICULTURE - IRRIGATION	12/31/1913			
2923		HOPPER, EDNA HOPPER, PAULINA KOHLER, MINNA MARWITZ, HENRY MARWITZ, NEITH MARWITZ, WILLIE M ROBERTS, ANNA SWINDLE, ALVINA SWINDLE, CLARA	12.28	AGRICULTURE - IRRIGATION	12/31/1913			
2924		HOPPER, BONNIE JEAN HOPPER, JERRY W	59.00	AGRICULTURE - IRRIGATION	05/31/1966			3.00
2925		Brazos River Authority	202,000.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	09/01/1999			145,533.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2925		Brazos River Authority	99,650.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	09/01/1999			
2926		Andrew Deck Beth Deck WISDOM, WILLIAM JACKSON	13.00	AGRICULTURE - IRRIGATION	05/31/1938			
2927		Hamilton Home, LLC	9.00	AGRICULTURE - IRRIGATION	06/30/1950			
2928		LUNDBERG, ELAINE LUNDBERG, GARY L	13.00	AGRICULTURE - IRRIGATION	07/31/1950			
2929		WIEDEBUSCH, NONA FA WIEDEBUSCH, REGINALD R	4.00	AGRICULTURE - IRRIGATION	03/31/1970			
2930		Estate of Cyrus Burton Cathey	31.00	AGRICULTURE - IRRIGATION	09/30/1962			
2931		BEASLEY, PATSY D BEASLEY, RONNAL S	52.00	AGRICULTURE - IRRIGATION	12/31/1965			
2932		Christy A. Forrest William Douglas Forrest	3.46	AGRICULTURE - IRRIGATION	05/31/1962			
2932		BILLINGSLEY, JAMES	2.54	AGRICULTURE - IRRIGATION	05/31/1962			
2933		M. J. Hanna Foundation	46.00	AGRICULTURE - IRRIGATION	08/31/1954			
2934		MARTHA JEAN JACKSON-HARRIS JOHN S KOPEC	27.86	AGRICULTURE - IRRIGATION	11/30/1965			
2934		David Barber Stacey Barber	18.76	AGRICULTURE - IRRIGATION	11/30/1965			
2934		JoAnn Collier Michael L. Collier	15.30	AGRICULTURE - IRRIGATION	11/30/1965			
2934		John Wilson Roberts, Jr. Wanda Brown Roberts	4.09	AGRICULTURE - IRRIGATION	11/30/1965			
2935		EL PASO TABLEROCK RANCH PROPERTIES LLC	38.00	AGRICULTURE - IRRIGATION	04/30/1963			190.00
2936		U.S. Department of the Army	10,000.00	MUNICIPAL/DOMESTIC	08/24/1953			12,000.00
2936		U.S. Department of the Army	2,000.00	MUNICIPAL/DOMESTIC	08/23/1954			
2936	B	U.S. Department of the Army	300.00	AGRICULTURE - IRRIGATION	08/24/1953			
2936	B	U.S. Department of the Army		RECREATION	08/24/1953			18.00
2936	B	U.S. Department of the Army		RECREATION	08/24/1953			14.40
2936	B	U.S. Department of the Army		RECREATION	08/24/1953			1.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2937		Barge Ranch, Ltd.	59.00	AGRICULTURE - IRRIGATION	07/31/1963			
2938	C	City of Temple	20,000.00	MUNICIPAL/DOMESTIC	01/11/1957			
2938	C	City of Temple	15,804.00	INDUSTRIAL MUNICIPAL/DOMESTIC	10/30/1915			500.00
2938	C	City of Temple		INDUSTRIAL MUNICIPAL/DOMESTIC	10/30/1915			
2938	C	City of Temple		INDUSTRIAL MUNICIPAL/DOMESTIC	01/11/1957			
2940		Mary Ann Cosper	63.00	AGRICULTURE - IRRIGATION	06/30/1965			
2941		PINCHE CHINGALE RANCH - BUCKHOLTS, LLC	36.00	AGRICULTURE - IRRIGATION	12/31/1966			
2942	A	WRIGHT DOUBLE J RANCH INC.	194.87	AGRICULTURE - IRRIGATION AGRICULTURE - WILDLIFE MANAGEMENT	12/31/1915			
2942		Pyle Brothers, Inc.	5.14	AGRICULTURE - IRRIGATION	12/31/1915			
2943		City of Killeen Killeen Willows, Inc.	20.00	AGRICULTURE - IRRIGATION	07/31/1978			36.00
2943		City of Killeen Killeen Willows, Inc.		RECREATION	11/27/1990			10.00
2944		Lhoist North America of Texas, Ltd.	138.00	MINING	04/28/1975		69.00	28.00
2945		MESSER, ANN WHITWORTH	33.58	AGRICULTURE - IRRIGATION	06/30/1966			
2945		MESSER, JOHN B SR	2.10	AGRICULTURE - IRRIGATION	06/30/1966			
2945		BAIRD, ROGER C	0.32	AGRICULTURE - IRRIGATION	06/30/1966			
2946		Cody Wayne Sulak Jacqueline Jorgette Sulak	24.00	AGRICULTURE - IRRIGATION	05/20/1974			
2947		Phillip E. Powell Sharon L. Powell	11.00	AGRICULTURE - IRRIGATION	08/31/1952			
2948	B	DICKSON, CHESTER E DICKSON, LINDA DIANE	278.00	AGRICULTURE - IRRIGATION	07/31/1960			
2948	B	DICKSON, CHESTER E DICKSON, LINDA DIANE		AGRICULTURE	04/27/2020			
2949	B	DICKSON, CHESTER E DICKSON, LINDA DIANE	37.00	AGRICULTURE - IRRIGATION	07/31/1960			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2950		Belton Independent School District	18.90	AGRICULTURE - IRRIGATION	08/31/1962			
2950		Shine Branch, LLC	6.03	AGRICULTURE - IRRIGATION	08/31/1962			
2950		KRAUSS, DAVID R KRAUSS, DORCAS A	0.08	AGRICULTURE - IRRIGATION	08/31/1962			
2951		MONTGOMERY, MICHAEL ANDREW	13.62	AGRICULTURE - IRRIGATION	07/31/1963			
2951		KATHY DENTON TODD DENTON	2.17	AGRICULTURE - IRRIGATION	07/31/1963			
2951		David L. Reddell, II Jo F. Reddell	2.08	AGRICULTURE - IRRIGATION	07/31/1963			
2951		DAVID EGGER Sheila G. Egger	2.00	AGRICULTURE - IRRIGATION	07/31/1963			
2951		KERRI COSTA Steven M. Costa	1.51	AGRICULTURE - IRRIGATION	07/31/1963			
2951		LORI L. MAEDGEN WILLIAM O. MAEDGEN III	1.43	AGRICULTURE - IRRIGATION	07/31/1963			
2951		LYNDA STOKES WILLIAM STOKES	0.83	AGRICULTURE - IRRIGATION	07/31/1963			
2952		Cloud Construction Co., Inc.	16.00	AGRICULTURE - IRRIGATION	12/31/1962			37.00
2953		VERHEYDEN, CHARLES N VERHEYDEN, GALE	75.27	AGRICULTURE - IRRIGATION	04/15/1967			
2953		LYNCH, DENNIS J LYNCH, MARY H	69.65	AGRICULTURE - IRRIGATION	04/15/1967			
2953		Robert Alan Probe Barbara Weiss	47.23	AGRICULTURE - IRRIGATION	04/15/1967			
2953		Julia Y. Hinds Roger W. Hinds	35.46	AGRICULTURE - IRRIGATION	04/15/1967			
2953		JONATHAN TSAI MANDOLYN TSAI	6.39	AGRICULTURE - IRRIGATION	04/15/1967			
2954		CHARLES MCCASLAND		DOMESTIC AND LIVESTOCK	07/11/1977			310.00
2955		SHELTON, CATHRYN A SHELTON, MARTIN P SHELTON, PAUL L	150.00	AGRICULTURE - IRRIGATION	07/01/1968			180.00
2957		MOORE, HOWARD K	65.00	AGRICULTURE - IRRIGATION	08/31/1940			
2958		TOUB, SAMUEL G	7.25	AGRICULTURE - IRRIGATION	09/27/1976			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2958		Fossil Creek Realty, Inc.	2.63	AGRICULTURE - IRRIGATION	09/27/1976			
2958		BETTIS, JIMMIE L BETTIS, W G Fossil Creek Realty, Inc. TOUB, SAMUEL G	0.12	AGRICULTURE - IRRIGATION	09/27/1976			
2959		COATS, JOHN R COATS, LYNN	23.00	AGRICULTURE - IRRIGATION	12/31/1950			
2960		Randy R. Pozzi Brittany Tonozzi Garrett Tonozzi	46.00	AGRICULTURE - IRRIGATION	12/31/1967			
2961		PATTESON, M K PATTESON, RUTH NEAL	54.00	AGRICULTURE - IRRIGATION	05/31/1957			
2962		Kathy Cox Todd Cox	28.00	AGRICULTURE - IRRIGATION	03/31/1925			
2963		Nelson J. Nuckles Trust Frances Virginia Nuckles	40.86	AGRICULTURE - IRRIGATION	06/30/1957			45.00
2963		LANGFORD, CAMILLE LANGFORD, JOSEPH HENRY Frances Virginia Nuckles	7.14	AGRICULTURE - IRRIGATION	06/30/1957			
2964		Glenda Sue Minnick Nellie Earline Tomme	1.00	AGRICULTURE - IRRIGATION	05/31/1929			
2965		Donald James Boultinghouse	20.70	AGRICULTURE - IRRIGATION	06/30/1963			
2965		BOULTINGHOUSE, ROY LEE	18.75	AGRICULTURE - IRRIGATION	06/30/1963			
2965		Betsy F. Boultinghouse Pittman	13.55	AGRICULTURE - IRRIGATION	06/30/1963			
2966		Greg D. Werchan Jacquelyn Werchan	31.00	AGRICULTURE - IRRIGATION	06/30/1963			4.00
2967		PRICE, H Y JR PRICE, LOIS POLLARD	5.00	AGRICULTURE - IRRIGATION	12/31/1963			40.00
2968		The Mark Nash Family Limited Partnership		RECREATION	01/07/1974			200.00
2969		ROITCH, BURRELL	8.00	AGRICULTURE - IRRIGATION	12/31/1946			
2970		BLANTON, CHARLES E	51.17	AGRICULTURE - IRRIGATION	12/31/1946			
2970		City of Lampasas	6.20	AGRICULTURE - IRRIGATION	12/31/1946			
2970		JENNIFER CLARK TRAVIS CLARK	2.63	AGRICULTURE - IRRIGATION	12/31/1946			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2971		City of Lampasas	3,760.00	AGRICULTURE - IRRIGATION MUNICIPAL/DOMESTIC	06/23/1914			
2972		City of Lampasas	228.00	AGRICULTURE - IRRIGATION	12/31/1963			22.00
2972		City of Lampasas		RECREATION	12/31/1956			20.00
2973		POTTS, MELVIN	6.00	AGRICULTURE - IRRIGATION	03/31/1964			3.00
2974		Jim and Pam Trust	144.00	AGRICULTURE - IRRIGATION	05/11/1913			
2975		JONES, ELIZABETH K JONES, RAY A	46.00	AGRICULTURE - IRRIGATION	06/13/1914			
2976		JONES, RAY A	48.00	INDUSTRIAL	06/26/1914		1.00	
2977		KIDD, CURTIS KIDD, LYNDA	42.00	AGRICULTURE - IRRIGATION	05/07/1914			
2978		JRS Horseshoe Falls Ranch, LLC	54.00	AGRICULTURE - IRRIGATION	12/31/1961			15.00
2979		HIGGINS, JOHN T	95.00	AGRICULTURE - IRRIGATION	12/31/1915			21.00
2980		LANSFORD, JUDITH ANN LANSFORD, LAUREN LANSFORD, ROBERT GUYLER	1.00	AGRICULTURE - IRRIGATION	01/29/1926			
2981		BOYD, JOE D	45.36	AGRICULTURE - IRRIGATION	05/31/1963			
2981		Janis Capps Jones Banner	6.32	AGRICULTURE - IRRIGATION	05/31/1963			
2981		Kathleen Morgan Manley Morgan	6.32	AGRICULTURE - IRRIGATION	05/31/1963			
2982		KENDRICK, A J DEWAYNE	6.00	AGRICULTURE - IRRIGATION	05/31/1963			
2983		Kevin Brown	7.00	AGRICULTURE - IRRIGATION	05/31/1963			
2984		WALKER, BARBARA J WALKER, DOYLE	18.00	AGRICULTURE - IRRIGATION	05/31/1963			
2985		Cathleen S. Cantrell Michael Cantrell	18.00	AGRICULTURE - IRRIGATION	05/31/1963			
2986	A	BRIGGS, JAMES BUFORD	46.80	AGRICULTURE - IRRIGATION	02/06/1919			
2987		HALLMARK, ALICE HALLMARK, ROBERT C HALLMARK, ROBERT CHARLES	2.00	AGRICULTURE - IRRIGATION	06/24/1914			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		MCHANEY, HELEN K HALLMARK						
2988		PARRINELLO, THOMAS	3.00	AGRICULTURE - IRRIGATION	06/23/1914			
2989		GARY L. REID LORETTA J. REID	18.67	AGRICULTURE - IRRIGATION	12/31/1923			
2989		James Holloway Linda Holloway	9.33	AGRICULTURE - IRRIGATION	12/31/1923			
2990		MAAS, BARBARA MAAS, HERBERT A	63.00	AGRICULTURE - IRRIGATION	04/30/1966			
2991		Sawtooth Enterprises, Ltd.	145.00	AGRICULTURE - IRRIGATION	12/31/1965			
2991		Sawtooth Enterprises, Ltd.		AGRICULTURE - IRRIGATION	04/29/2002			4.02
2992		BROWN, JOSEPH CARLTON BROWN, MARY KATHYRN BROWN, WALTER OTHEL	34.00	AGRICULTURE - IRRIGATION	03/14/1954			8.00
2992		GAGE, MARY ANGELINE Mary Angeline Gage Heritage Trust	34.00	AGRICULTURE - IRRIGATION	03/14/1954			
2993		SMITH, ARTHUR PAUL SMITH, THELMA	24.59	AGRICULTURE - IRRIGATION	12/31/1925			25.00
2993		G BAR M RANCH, INC.	19.24	AGRICULTURE - IRRIGATION	12/31/1925			
2993		Ben G. Lane Jr. Kay K. Lane	0.17	AGRICULTURE - IRRIGATION	12/31/1925			
2994		SPENCER, BETTY LOU RACHEL SPENCER, THOMAS MORRIS	6.00	AGRICULTURE - IRRIGATION	12/31/1925			
2995		Morse Ranch a Partnership	120.00	AGRICULTURE - IRRIGATION	03/07/1966			
2996		Bradley B. Ware	100.00	AGRICULTURE - IRRIGATION	04/01/1966			
2996		TAYLOR, JOHN	56.00	AGRICULTURE - IRRIGATION	04/01/1966			
2997		Suntex Fuller Corporation	12.40	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Stephen G Suttles	9.24	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Ben K. Phillips Nancy Z. Phillips	6.38	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Jude P. Coe Megan E. Vavir Coe	6.31	AGRICULTURE - IRRIGATION	09/30/1963			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
2997		Karl Thomas Peggy Thomas	5.13	AGRICULTURE - IRRIGATION	09/30/1963			
2997		ANNE PARE KEVIN PARE	4.39	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Ricky Lynch Sarah Ann Lynch	3.99	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Bradley B. Ware	3.89	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Christa G. Armantrout Jesse P. Armantrout	3.24	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Charles M. Stockton	2.90	AGRICULTURE - IRRIGATION	09/30/1963			
2997		GERALD BROWN NADENE BROWN	2.50	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Remy Beherec Robin E. Beherec	1.98	AGRICULTURE - IRRIGATION	09/30/1963			
2997		Holly D. Thomson John C. Thomson III	1.65	AGRICULTURE - IRRIGATION	09/30/1963			
2998		C W DUNCAN III G LARRY ALLEN 2007 TRUST	157.00	AGRICULTURE - IRRIGATION	12/31/1925			
2999		Bradley B. Ware	3.00	AGRICULTURE - IRRIGATION	05/31/1947			
3000		James L. Shepherd	105.00	AGRICULTURE - IRRIGATION	04/30/1957			
3001		MELTON, EDD	12.00	AGRICULTURE - IRRIGATION	12/31/1967			
3002		RAY, GENE RAY, NELDA FAYE	150.00	AGRICULTURE - IRRIGATION	12/31/1961			
3003		Bennie Gibbs Ranch, LP	32.00	AGRICULTURE - IRRIGATION	06/30/1967			
3004		Jencer Investments, Inc.	24.50	AGRICULTURE - IRRIGATION	08/02/1967			
3004		ESTHER L. MUNSON MUNSON, MARK H	10.10	AGRICULTURE - IRRIGATION	08/02/1967			
3004		Estate of Dr Jamie W Barton	4.80	AGRICULTURE - IRRIGATION	08/02/1967			
3004		WBW DEVELOPMENT GROUP, LLC	3.50	AGRICULTURE - IRRIGATION	08/02/1967			
3004		MICHAEL A. ANDERSON SUSAN L. ELROD	3.00	AGRICULTURE - IRRIGATION	08/02/1967			
3004		BRUCE FLANIGAN KATHRYN FLANIGAN	2.10	AGRICULTURE - IRRIGATION	08/02/1967			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3004		CARLA J HARMON RAYFORD HARMON	1.60	AGRICULTURE - IRRIGATION	08/02/1967			
3004		RANDALL S. HOUSTON	0.40	AGRICULTURE - IRRIGATION	08/02/1967			
3005		LOGSDON, BETTY LOGSDON, VAIL E	5.00	AGRICULTURE - IRRIGATION	06/30/1965			
3006		Estate of Karl B. Wagner	48.00	AGRICULTURE - IRRIGATION	04/30/1967			
3007		River Farm, Ltd.	192.00	AGRICULTURE - IRRIGATION	09/20/1982			
3007		River Farm, Ltd.	48.00	AGRICULTURE - IRRIGATION	12/31/1947			
3008		TUTTLE, ELEANOR B	61.00	AGRICULTURE - IRRIGATION	06/30/1950			
3009		LEWIS, JOSEPH LEWIS, SARA C	81.00	AGRICULTURE - IRRIGATION	12/31/1962			
3010		JONES, CLIFFORD D	10.00	AGRICULTURE - IRRIGATION	06/30/1955			
3011		SCHOEPF, RONALD G JR SCHOEPF, STACI R	16.55	AGRICULTURE - IRRIGATION	12/31/1962			
3011		HANSEN, JEFF HANSEN, SHANNON	0.46	AGRICULTURE - IRRIGATION	12/31/1962			
3012		Stagecoach 1943, LP		RECREATION	08/02/1976			9.00
3013	D	MCCC, LLC	168.00	AGRICULTURE - IRRIGATION	04/15/1965			10.00
3014		Brittany Anne Bailey Edwn A. Bailey III Edwin A. Bailey Jr. Elizabeth Bailey Geyer	63.00	AGRICULTURE - IRRIGATION	12/31/1883			6.00
3014		Brittany Anne Bailey Edwn A. Bailey III Edwin A. Bailey Jr. Elizabeth Bailey Geyer	2.00	INDUSTRIAL	12/31/1883			
3015		BOSTON, MARY JEAN The Boston Living Trust	36.00	AGRICULTURE - IRRIGATION	12/31/1963			
3411		HENDERSON, JAMES C	75.00	AGRICULTURE - IRRIGATION	01/30/1978			
3412		Gilco Contracting, Inc.		DOMESTIC AND LIVESTOCK	03/28/1977			248.00
3413		CLONTS, SAMUEL E PERDUE, MARION C WILSON, MABEL C	182.00	AGRICULTURE - IRRIGATION	08/31/1957			100.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3414		City of Benjamin	34.00	MUNICIPAL/DOMESTIC	01/02/1929			915.00
3440		Lago Grande LP	2,000.00	AGRICULTURE - IRRIGATION	06/13/1958			
3440		Lago Grande LP	31.00	AGRICULTURE - IRRIGATION	05/15/1972			
3440		Lago Grande LP		AGRICULTURE - IRRIGATION	06/13/1958			4,477.00
3440		Joe O. Bishop		RECREATION	05/17/1965			1,750.00
3440		Joe O. Bishop		RECREATION	05/15/1972			334.00
3440		Lago Grande LP		AGRICULTURE - IRRIGATION	05/15/1972			918.00
3441		City of Munday		RECREATION	12/18/1939			150.00
3442		City of Seymour	50.00	AGRICULTURE - IRRIGATION	11/23/1970			95.00
3443		North Central Texas Municipal Water Authority	28.00	AGRICULTURE - IRRIGATION	12/31/1963			
3444		North Central Texas Municipal Water Authority	3,500.00	MUNICIPAL/DOMESTIC	10/01/1958			30,696.00
3444		North Central Texas Municipal Water Authority	1,000.00	INDUSTRIAL	10/01/1958			
3444		North Central Texas Municipal Water Authority	500.00	MINING	10/01/1958			
3445		COOPER, PATSY STOUT HOLT, TRIXIE KAY STOUT STOUT, JACK L STOUT, JIMMY STOUT, JO ALICE STYLES, BETTY LYNN STOUT	31.00	AGRICULTURE - IRRIGATION	08/31/1931			
3446		J J Keeter Trust	4.50	AGRICULTURE - IRRIGATION	09/02/1959			
3446		STUTEVILLE, CLYDE	4.50	AGRICULTURE - IRRIGATION	09/02/1959			125.00
3447		L & D Haile Properties, LP	45.00	AGRICULTURE - IRRIGATION	05/31/1964			
3448		WILKINSON, GEORGE W	45.00	AGRICULTURE - IRRIGATION	02/28/1966			2.00
3449		Ross McKnight		DOMESTIC AND LIVESTOCK	01/23/1950			705.00
3450		City of Throckmorton	600.00	MUNICIPAL/DOMESTIC	11/20/1940			1,675.00
3451		George W. Wilkinson	27.00	INDUSTRIAL	08/31/1966			
3451		Gary W. Sanders Kris M. Sanders	26.00	AGRICULTURE - IRRIGATION	08/31/1966			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3452		City of Newcastle	250.00	MUNICIPAL/DOMESTIC	11/22/1966			801.00
3453		Pitcock Bros. Ready Mix Concrete, Inc.	100.00	MINING	12/19/1960			
3454		Robert O. Andrews Family Trust	64.00	AGRICULTURE - IRRIGATION	08/31/1965			3.00
3455		Charles D. Crow Wanda L. Crow	76.00	AGRICULTURE - AQUACULTURE AGRICULTURE - IRRIGATION INDUSTRIAL	06/30/1967			
3455		Charles D. Crow Wanda L. Crow	6.00	AGRICULTURE - AQUACULTURE AGRICULTURE - IRRIGATION INDUSTRIAL	06/20/1977			82.00
3456		STEPHENS, RONALD D	59.00	AGRICULTURE - IRRIGATION	12/31/1959			55.00
3457		PITCOCK, J DUFF PITCOCK, LOUIS JR PITCOCK, ROY T	60.00	AGRICULTURE - IRRIGATION	12/08/1969			24.00
3458		City of Graham	7,400.00	INDUSTRIAL	11/15/1954			
3458		City of Graham	7,000.00	MUNICIPAL/DOMESTIC	11/15/1954			39,000.00
3458		City of Graham	4,000.00	MUNICIPAL/DOMESTIC	11/21/1927			4,503.00
3458		City of Graham	1,000.00	INDUSTRIAL	11/21/1927			
3458		City of Graham	500.00	MINING	11/15/1954			
3458		City of Graham	100.00	AGRICULTURE - IRRIGATION	11/15/1954			
3458		City of Graham		AGRICULTURE - IRRIGATION MUNICIPAL/DOMESTIC	09/16/1957			8,883.00
3458		City of Graham		AGRICULTURE - IRRIGATION	02/08/1982			40.00
3459		BURKETT, ZACK	12.00	AGRICULTURE - IRRIGATION	08/31/1964			
3460		Jarrod Lee Stephens	76.00	AGRICULTURE - IRRIGATION	08/20/1928			
3461		CAMPBELL, T T	27.00	AGRICULTURE - IRRIGATION	03/31/1963			
3462		City of Bryson	90.00	MUNICIPAL/DOMESTIC	08/01/1977			950.00
3463		LEACH, LORETTA JANE	16.00	AGRICULTURE - IRRIGATION	12/31/1963			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3465		Eastland County Water Supply District	450.00	MUNICIPAL/DOMESTIC RECREATION	10/28/1919			1,740.00
3465		City of Eastland	100.00	AGRICULTURE - IRRIGATION	10/28/1919			
3465		City of Eastland	50.00	INDUSTRIAL MINING	10/28/1919			
3466		City of Eastland		RECREATION	01/12/1976			144.00
3467		HARGRAVE, SHIRLEY HARGRAVE, WAYNE	12.00	AGRICULTURE - IRRIGATION	12/31/1965			12.00
3468		EBAA Iron, Inc.	1,000.00	MINING	12/15/1919			1,607.00
3468		Eastland Industrial Foundation, Inc.	607.00	MINING	12/15/1919			
3469		MORROW, LARRY	21.00	AGRICULTURE - IRRIGATION	08/21/1967			23.00
3470	C	Eastland County Water Supply District	2,437.50	MUNICIPAL/DOMESTIC	03/21/1952			28,000.00
3470	C	Eastland County Water Supply District	1,747.50	MUNICIPAL/DOMESTIC	03/25/1986			
3470	C	Eastland County Water Supply District	1,265.00	MUNICIPAL/DOMESTIC	12/20/1985			
3470	C	Eastland County Water Supply District	500.00	AGRICULTURE - IRRIGATION	03/25/1986			
3470	C	Eastland County Water Supply District	350.00	INDUSTRIAL	03/25/1986			
3471		WILSON, GLYNN A		DOMESTIC AND LIVESTOCK	10/11/1977			115.00
3471		WILSON, GLYNN A		DOMESTIC AND LIVESTOCK	04/01/1991			125.00
3473		Ronnie Love	40.00	AGRICULTURE - IRRIGATION	10/27/1969			45.00
3474		Richardson, Jimmy R Linda J. Richardson	30.00	AGRICULTURE - IRRIGATION	04/28/1969			30.00
3475		PIPPIN, C M JR	8.00	AGRICULTURE - IRRIGATION	05/26/1969			60.00
3476		BURFORD, DEBRA W BURFORD, JOHN	51.00	AGRICULTURE - IRRIGATION	04/30/1952			
3479		SNIDER, CHARLOTTE ANN SNIDER, TEDDY J	30.00	AGRICULTURE - IRRIGATION	04/05/1966			16.00
3479		SNIDER, CHARLOTTE ANN SNIDER, TEDDY J		AGRICULTURE - IRRIGATION	03/29/1976			19.00
3480		PULLMAN, SAUL A		DOMESTIC AND LIVESTOCK	10/31/1977			60.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3481		BROWN, WYNELLE ESTATE OF WILL D BROWN WILL D BROWN TESTAMENTARY TRUST	25.00	AGRICULTURE - IRRIGATION	07/29/1968			40.00
3482		EAVES, JOHNNY W EAVES, MARY C	13.00	AGRICULTURE - IRRIGATION	07/31/1964			25.00
3483		HOUSE, MATTHEW STANLEY	90.00	AGRICULTURE - IRRIGATION	07/21/1969			244.00
3484		MILLER, JEFFREY H	40.00	AGRICULTURE - IRRIGATION	05/13/1970			50.00
3485		Erma Lee Perrin PERRIN, HL RONNIE AND BARBARA LOVE FARMS, LTD.		DOMESTIC AND LIVESTOCK	01/02/1973			350.00
3487		WARREN, D B	40.00	AGRICULTURE - IRRIGATION	02/19/1968			
3487		WELCH, KENNETH ROY		AGRICULTURE - IRRIGATION	02/19/1968			48.00
3488		Barbara Bush Max Bush	30.00	AGRICULTURE - IRRIGATION	09/22/1969			100.00
3489		Dotted K Properties II LLC	140.00	AGRICULTURE - IRRIGATION	10/13/1969			323.00
3490		HOLLAND, CLIFFORD HOLLAND, GALYNA	60.00	AGRICULTURE - IRRIGATION	06/05/1967			60.00
3492		HOENKE, AMANDA W HOENKE, CHARLES P	47.56	AGRICULTURE - IRRIGATION	08/21/1967			52.00
3492		LINDLEY, G D	4.44	AGRICULTURE - IRRIGATION	08/21/1967			
3493		LINDLEY, EDDIE	22.38	AGRICULTURE - IRRIGATION	04/27/1970			35.00
3493		JOHNSON, KRISTINE M JOHNSON, MERLIN D	6.30	AGRICULTURE - IRRIGATION	04/27/1970			35.00
3494		DOWELL, COURTNEY KOONCE	140.00	AGRICULTURE - IRRIGATION	03/22/1971			140.00
3495		COGBURN, CHRISTAL COGBURN, TOBY	55.46	AGRICULTURE - IRRIGATION	05/23/1967			94.00
3495		KOONCE, MOODY B	38.54	AGRICULTURE - IRRIGATION	05/23/1967			
3496		HOUSTON SPRING CREEK RANCH, LTD.	21.00	AGRICULTURE - IRRIGATION	10/28/1968			50.00
3497		ABELS, BOBBY LEE SMITH, BILLY W	50.00	AGRICULTURE - IRRIGATION	07/28/1975			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3498		GILDER, RAYMOND L	100.00	AGRICULTURE - IRRIGATION	12/14/1970			189.00
3499		LAKESIDE ON THE COLORADO, LTD.	2.24	AGRICULTURE - IRRIGATION	08/31/1951			25.00
3499		DENNIS MORIAN SHERRY MORIAN	0.69	AGRICULTURE - IRRIGATION	08/31/1951			
3499		BETHANY H. SPARKS GARY D. SPARKS	0.08	AGRICULTURE - IRRIGATION	08/31/1951			
3500		Obbco Ranch Corporation	24.00	AGRICULTURE - IRRIGATION	04/30/1966			
3504		H. GRADY PAYNE CO., LLC Donald Keith Payne	20.00	AGRICULTURE - IRRIGATION	04/08/1968			20.00
3505		RANDY STEPHENS, LP STEPHENS, RANDY PATRICK	36.00	AGRICULTURE - IRRIGATION	07/22/1968			36.00
3506		STEWART, J V	2.52	AGRICULTURE - IRRIGATION	03/31/1963			
3506		Laci Brook Dixon	0.48	AGRICULTURE - IRRIGATION	03/31/1963			10.00
3511		La Palma Land & Cattle Limited Partnership	70.10	AGRICULTURE - IRRIGATION	08/31/1966			
3511		HOUSTON SPRING CREEK RANCH, LTD.	2.90	AGRICULTURE - IRRIGATION	08/31/1966			
3512		JOHNSON, JIMMY DALE	6.00	AGRICULTURE - IRRIGATION	12/31/1963			
3514		ROCK LIFE RANCHES, LLC	3.66	AGRICULTURE - IRRIGATION	08/01/1966			198.00
3515		Robert Jess Hoffman		DOMESTIC AND LIVESTOCK	05/01/1972			292.00
3516		A. Staude Family Limited Partnership		DOMESTIC AND LIVESTOCK	05/01/1972			292.00
3517		Merle Jo Parks Trustee	250.00	AGRICULTURE - IRRIGATION	07/29/1968			266.00
3518		FOCI CORP.	110.00	AGRICULTURE - IRRIGATION	08/08/1967			135.00
3519		BEARD, GARY D BEARD, PATTI G	25.00	AGRICULTURE - IRRIGATION	06/15/1970			35.00
3520		BRYCE, KARY	40.00	AGRICULTURE - IRRIGATION	09/11/1967			67.00
3521		SPRUILL, PATSY SPRUILL, TRUETT	40.00	AGRICULTURE - IRRIGATION	05/05/1969			138.00
3523		BURNS, IMOGENE BURNS, ROBERT M	20.00	AGRICULTURE - IRRIGATION	06/09/1969			22.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3524		Emma Jane Larch Jerry R. Skaggs Kelli Leigh Cook Styron Karla Deanne Cook Swearengin		DOMESTIC AND LIVESTOCK	12/08/1975			55.00
3525		Thomas H. Birdsong III	10.00	AGRICULTURE - IRRIGATION	10/13/1969			90.00
3528		Robert Earl Dennis	221.00	AGRICULTURE - IRRIGATION	09/15/1969			121.00
3530		BRADLEY, EARL T	46.00	AGRICULTURE - IRRIGATION	09/09/1969			32.00
3530		BRADLEY, EARL T	14.00	AGRICULTURE - IRRIGATION	06/30/1967			40.00
3531		John R. Scott Leveta Scott		DOMESTIC AND LIVESTOCK	11/03/1986			38.00
3531		John R. Scott Leveta Scott		DOMESTIC AND LIVESTOCK	11/03/1988			40.00
3532		BINGHAM, AVA NELL BINGHAM, GLEN H BINGHAM, JERRY W BINGHAM, JIMMY L BINGHAM, MICHAEL R	29.00	AGRICULTURE - IRRIGATION	03/29/1971			29.00
3534		ROSE MARIANN ROUNTREE BRADLEY RAY DEAN ROUNTREE	24.00	AGRICULTURE - IRRIGATION	07/31/1967			
3535		JON KYLE RILEY	8.00	AGRICULTURE - IRRIGATION	10/26/1971			8.00
3536		Becky L. Golden Ronnie S. Golden	31.00	AGRICULTURE - IRRIGATION	04/26/1971			
3536		Becky L. Golden Ronnie S. Golden		AGRICULTURE - IRRIGATION	04/26/1971			16.00
3536		Becky L. Golden Ronnie S. Golden		AGRICULTURE - IRRIGATION	04/26/1971			15.00
3537		STEPHENS, RODNEY		DOMESTIC AND LIVESTOCK	12/17/1973			9.00
3538		B&T Livestock, Inc.		DOMESTIC AND LIVESTOCK RECREATION	11/19/1973			32.00
3539		GLOVER, DAVID M	75.00	AGRICULTURE - IRRIGATION	03/17/1969			120.00
3540		FARLEY, JAMES L	89.00	AGRICULTURE - IRRIGATION	04/25/1967			73.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3540		FARLEY, JAMES L	23.00	AGRICULTURE - IRRIGATION	07/31/1967			80.00
3540		FARLEY, JAMES L	1.00	AGRICULTURE - IRRIGATION	04/25/1967			
3540		FARLEY, JAMES L		AGRICULTURE - IRRIGATION	10/20/1976			
3541		Jonathon Nix Randi Nix	43.67	AGRICULTURE - IRRIGATION	05/06/1968			48.00
3541		Bobby L. Schuman Donna F. Schuman	1.33	AGRICULTURE - IRRIGATION	05/06/1968			
3542		Nabors Lake Development Corporation		RECREATION	04/28/1976			450.00
3543		HARRY SIMON OLLIE FAYE SIMON	28.00	AGRICULTURE - IRRIGATION	05/04/1970			29.00
3544		LAMPMAN, JIM LAMPMAN, TERESA	17.00	AGRICULTURE - IRRIGATION	12/31/1964			
3546		Autry and Peggy Andress Revocable Trust	6.10	AGRICULTURE - IRRIGATION	07/31/1965			9.00
3546		Children of Richard Barry Lewis JR & Wife Cathi Lea Lewis Trust	1.50	AGRICULTURE - IRRIGATION	04/26/1971			
3546		Children of Richard Barry Lewis JR & Wife Cathi Lea Lewis Trust	1.40	AGRICULTURE - IRRIGATION	07/31/1965			2.00
3547		Elisabeth Sanders	70.00	AGRICULTURE - IRRIGATION	04/01/1968			74.00
3548		Golden & Sons, Inc.	166.00	AGRICULTURE - IRRIGATION	05/17/1965			166.00
3549		WRIGHT, ARLA DEE	42.00	AGRICULTURE - IRRIGATION	05/20/1968			42.00
3551		STRAUB, BOBBY W		DOMESTIC AND LIVESTOCK	12/15/1975			48.00
3552		MOHON, KELLEY L MOHON, RICHARD	80.00	AGRICULTURE - IRRIGATION	06/07/1971			126.00
3553		Lee Cotton	53.00	AGRICULTURE - IRRIGATION	06/13/1966			53.00
3554		Life Estate of Leslie Neal and Lucy Lugene Morris	25.00	AGRICULTURE - IRRIGATION	06/30/1969			30.00
3555		GRIFFIN, MARK C GRIFFIN, MARY CAROL	100.00	AGRICULTURE - IRRIGATION	05/22/1978			100.00
3556		MCGINNIS, BOBBY Carrie Ann McGinnis	7.50	AGRICULTURE - IRRIGATION	04/15/1968			
3557	A	Lake Proctor Irrigation Authority	200.00	AGRICULTURE - IRRIGATION	04/15/1968			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3557	A	Lake Proctor Irrigation Authority	97.50	AGRICULTURE - IRRIGATION	04/15/1968			105.00
3558		BIGGS, JAMES BRADLEY BIGGS, STEVEN MARK	12.00	AGRICULTURE - IRRIGATION	07/31/1961			
3561		LA ROCA'S MAGIC VALLEY RANCH LP		RECREATION	06/24/1974			267.00
3565		LA ROCA'S MAGIC VALLEY RANCH LP		DOMESTIC AND LIVESTOCK	01/28/1974			200.00
3567		ROBERT C STARKS LIVING TRUST		RECREATION	09/03/1974			81.00
3568		MAZUREK, CHARLES	21.51	AGRICULTURE - IRRIGATION	09/17/1970			15.00
3568		JONES, RODGER GAYLE	19.13	AGRICULTURE - IRRIGATION	09/17/1970			10.00
3568		Summer Moon Holdings SCR, LLC	9.36	AGRICULTURE - IRRIGATION	09/17/1970			
3568		JONES, RODGER GAYLE Summer Moon Holdings SCR, LLC		AGRICULTURE - IRRIGATION	09/17/1970			25.00
3569		RICHARD H. JANES	10.00	AGRICULTURE - IRRIGATION	02/07/1972			10.00
3572		GILCHREST, AUBREY D GILCHREST, HUE THI	92.38	AGRICULTURE - IRRIGATION	03/18/1968			
3572		AUVENSHINE, DORY ALLEN AUVENSHINE, JAMIE COLLIN AUVENSHINE, TIMOTHY LANE AUVENSHINE, WAYLAND TABBERT	23.81	AGRICULTURE - IRRIGATION	03/18/1968			
3572		BURNS, ANN	23.25	AGRICULTURE - IRRIGATION	03/18/1968			
3572		BURNS, EDDIE	0.56	AGRICULTURE - IRRIGATION	03/18/1968			
3572		AUVENSHINE, DORY ALLEN AUVENSHINE, JAMIE COLLIN AUVENSHINE, TIMOTHY LANE AUVENSHINE, WAYLAND TABBERT BURNS, ANN		AGRICULTURE - IRRIGATION	03/18/1968			140.00
3572		AUVENSHINE, DORY ALLEN AUVENSHINE, JAMIE COLLIN AUVENSHINE, TIMOTHY LANE		AGRICULTURE - IRRIGATION	02/23/1976			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		AUVENSHINE, WAYLAND TABBERT						
3572		BURNS, ANN		AGRICULTURE - IRRIGATION	02/23/1976			
3572		BURNS, EDDIE		AGRICULTURE - IRRIGATION	02/23/1976			
3572		GILCHREST, AUBREY D GILCHREST, HUE THI		AGRICULTURE - IRRIGATION	02/23/1976			
3575	D	April R. Britt CHARLES JASON BRITT	16.00	AGRICULTURE - IRRIGATION	04/30/1955			
3578		Steve Martindale		DOMESTIC AND LIVESTOCK	11/11/1974			800.00
3579		R. Mark Nowlin	32.00	AGRICULTURE - IRRIGATION	07/31/1969			50.00
3580		TAYLOR, DELISA R TAYLOR, JOHN C	70.00	AGRICULTURE - IRRIGATION	04/24/1972			150.00
3581		Dale L. Best Lori J. Best	65.00	AGRICULTURE - IRRIGATION	01/05/1970			75.00
3584		NEAL, DINA BAXTER	30.00	AGRICULTURE - IRRIGATION	12/31/1959			8.00
3585		GILLIAM, WAYNE D	23.00	AGRICULTURE - IRRIGATION	10/13/1970			960.00
3585		GILLIAM, WAYNE D		DOMESTIC AND LIVESTOCK	07/30/1973			17.39
3586		Glenda Gaynell Henry	154.00	AGRICULTURE - IRRIGATION	10/13/1970			960.00
3586		Glenda Gaynell Henry		AGRICULTURE - IRRIGATION RECREATION	10/19/1977			
3587		TAYLOR, DELISA R TAYLOR, JOHN C	194.93	AGRICULTURE - IRRIGATION RECREATION	10/13/1970			960.00
3588		GRESSETT, MYRA ELLEN	25.62	AGRICULTURE - IRRIGATION	10/13/1970			
3588		Shining E Land & Cattle LLC	3.62	AGRICULTURE - IRRIGATION	10/13/1970			
3588		GRESSETT, MYRA ELLEN Shining E Land & Cattle LLC		AGRICULTURE - IRRIGATION RECREATION	10/13/1970			960.00
3589	C	Southwestern Pivot Lake, LLC	182.37	AGRICULTURE - IRRIGATION	10/13/1970			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3589		GRESSETT, MYRA ELLEN	2.82	AGRICULTURE - IRRIGATION RECREATION	10/13/1970			
3589		GRESSETT, MYRA ELLEN		RECREATION	10/13/1970			960.00
3589		Southwestern Pivot Lake, LLC		RECREATION	10/13/1970			960.00
3590		Southwestern Pivot Lake, LLC	311.18	AGRICULTURE - IRRIGATION	10/13/1970			
3590		MARTIN, TAMI GEYE	18.82	AGRICULTURE - IRRIGATION	10/13/1970			
3590		Southwestern Pivot Lake, LLC		AGRICULTURE - IRRIGATION RECREATION	10/13/1970			960.00
3592		JUNGE, SHARLA DAWN NICHOLS, LEON Y NICHOLS, YANTIS RAND	109.00	AGRICULTURE - IRRIGATION	04/23/1967			110.00
3593		Gary W. Chappell Nancy L. Chappell	17.00	AGRICULTURE - IRRIGATION	06/30/1969			
3593		Gary W. Chappell Nancy L. Chappell	8.00	AGRICULTURE - IRRIGATION	06/30/1965			25.00
3594		MOHON, RICHARD	10.61	AGRICULTURE - IRRIGATION	02/22/1971			40.00
3594		ANTHONY J. CHANDLER	4.50	AGRICULTURE - IRRIGATION	02/22/1971			
3594		Wolfe Pecanlands, Inc.	0.90	AGRICULTURE - IRRIGATION	02/22/1971			
3595		Cathy Gayle Gray	10.00	AGRICULTURE - IRRIGATION	04/15/1956			4.00
3596		VAN KOOTEN, GERARD	121.16	AGRICULTURE - IRRIGATION	08/25/1969			
3596		PINKARD, MICHAEL CODY PINKARD, RICHARD GENE	92.34	AGRICULTURE - IRRIGATION	08/25/1969			400.00
3596		PINKARD, RONALD L	66.50	AGRICULTURE - IRRIGATION	08/25/1969			
3597		J Reed		RECREATION	02/07/1972			657.00
3598		MCENTIRE, JOE J		RECREATION	02/07/1972			657.00
3599		MCENTIRE, JOE J		RECREATION	02/07/1972			657.00
3600		TAYLOR, DELISA R TAYLOR, JOHN C		RECREATION	02/07/1972			657.00
3601		DELISA R. TAYLOR John C. Taylor		DOMESTIC AND LIVESTOCK RECREATION	02/07/1972			657.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3603		Paul L. Rains		DOMESTIC AND LIVESTOCK	08/10/1972			15.00
3603		Paul L. Rains		DOMESTIC AND LIVESTOCK	05/19/1975			35.00
3604		Elizabeth Steel Larry E. Steele		DOMESTIC AND LIVESTOCK	08/10/1972			15.00
3604		Elizabeth Steel Larry E. Steele		DOMESTIC AND LIVESTOCK	05/19/1975			35.00
3605		Gary G. Hall Mary Lou Hall		DOMESTIC AND LIVESTOCK	02/28/1972			41.00
3606		GARY G HALL TESTAMENTARY TRUST Mary Lou Hall	3.00	AGRICULTURE - IRRIGATION	07/31/1963			
3607		MAZUREK, TC JR		DOMESTIC AND LIVESTOCK	02/17/1975			
3608		Roxann Moore	17.54	AGRICULTURE - IRRIGATION	10/26/1971			
3608		Sweetwater 589, LLC	3.46	AGRICULTURE - IRRIGATION	10/26/1971			
3609		HATHCOCK, ANN ELIZABETH	50.00	AGRICULTURE - IRRIGATION	10/18/1971			
3610	A	TAYLOR, DELISA R TAYLOR, JOHN C	143.00	AGRICULTURE - IRRIGATION	07/19/1971			
3611		Karen Coplen	38.00	AGRICULTURE - IRRIGATION	12/31/1969			
3612	A	JONES, DONNA CLARK JONES, DUSTIN K	93.00	AGRICULTURE - IRRIGATION	05/31/1959			
3612		Fred S. Davis		AGRICULTURE - IRRIGATION	05/31/1959			40.00
3613		Christy Moncile Hughes	95.00	AGRICULTURE - IRRIGATION	05/17/1971			99.00
3614		Carolyn McDaniel Simpson	5.06	AGRICULTURE - IRRIGATION	11/18/1965			
3614		CHESTER, JAMES DONALD	4.63	AGRICULTURE - IRRIGATION	11/18/1965			
3614		Glenda Gaynell Henry	0.31	AGRICULTURE - IRRIGATION	11/18/1965			
3615		AUVENSHINE, MERNELL DAY, IRENE Estate of Fay Polston Estate of Joyce Wright VINEYARD, BILLY JOHN	40.05	AGRICULTURE - IRRIGATION	06/16/1969			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3615		VINEYARD, BILLY JOHN	7.95	AGRICULTURE - IRRIGATION	06/16/1969			
3616		VINEYARD, BILLY JOHN	12.00	AGRICULTURE - IRRIGATION	06/16/1969			
3617		Walter Mazurek	3.00	AGRICULTURE - IRRIGATION	04/29/1968			
3618		COWDEN, CANDICE BETH	37.12	AGRICULTURE - IRRIGATION	07/31/1967		37.12	
3618		COWDEN, CANDICE BETH	30.01	AGRICULTURE - IRRIGATION	07/31/1967		30.01	
3618		Obbco Ranch Corporation	9.88	AGRICULTURE - IRRIGATION	07/31/1967		9.88	
3618		Obbco Ranch Corporation	7.99	AGRICULTURE - IRRIGATION	07/31/1967		7.99	
3618		COWDEN, CANDICE BETH	7.11	AGRICULTURE - IRRIGATION	05/06/1968		7.11	
3618		Obbco Ranch Corporation	1.89	AGRICULTURE - IRRIGATION	05/06/1968		1.89	
3619		JFB FARMS, INC.	20.00	AGRICULTURE - IRRIGATION	02/22/1971			
3620		Donald J. Alderman	72.00	AGRICULTURE - IRRIGATION	09/11/1967			72.00
3620		Donald J. Alderman	25.00	AGRICULTURE - IRRIGATION	05/31/1967			
3622		LESLEY, CURTIS D LESLEY, ROYCE G		AGRICULTURE - IRRIGATION RECREATION	06/28/1976			36.00
3623		Timothy Len Matthews	26.00	AGRICULTURE - IRRIGATION	04/23/1966			10.00
3624		Pauline Hall	14.00	AGRICULTURE - IRRIGATION	04/23/1966			
3626		Wolfe Pecanlands, Inc.	157.30	AGRICULTURE - IRRIGATION	07/15/1963			
3626		Jeffrey Kurtz	2.70	AGRICULTURE - IRRIGATION	07/15/1963			
3627		Dinah Kay Densman	13.00	AGRICULTURE - IRRIGATION	01/15/1967			
3629	B	Frank Volleman Family, LP	48.00	AGRICULTURE - IRRIGATION	09/08/1975			
3630		Van Zant Family Partnership, Ltd. J. H. Van Zant	30.00	AGRICULTURE - IRRIGATION	12/31/1929			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3631		J. Z. Stark	50.00	AGRICULTURE - IRRIGATION	07/31/1966			
3632		Randle Joe Evans	3.00	AGRICULTURE - IRRIGATION	06/10/1967			
3633		BR & WR Evans Farms, Inc.	61.00	AGRICULTURE - IRRIGATION	05/31/1967			
3634	A	Rodney Stephens, LP	163.00	AGRICULTURE - IRRIGATION	07/31/1964			
3635		Joe Riley	84.00	AGRICULTURE - IRRIGATION	06/30/1952			
3636	C	Natural Dairy Grower Land, LP	130.00	AGRICULTURE - IRRIGATION	06/30/1950			
3636	C	Natural Dairy Grower Land, LP	40.00	AGRICULTURE - IRRIGATION	07/31/1952			
3636		George Chase Evelyn Moody		DOMESTIC AND LIVESTOCK	11/06/1978			419.00
3637		HARVICK, KENNETH D HARVICK, VICKIE	442.87	AGRICULTURE - IRRIGATION	12/31/1946			
3637		Gore's, Inc.	7.13	AGRICULTURE - IRRIGATION	12/31/1946			84.00
3638		Three Roper Ranch, L.L.C.	40.00	AGRICULTURE - IRRIGATION	12/31/1958			25.00
3639		YORK, GAIL W YORK, MARY L	35.00	AGRICULTURE - IRRIGATION	07/31/1951			4.50
3640		Scott G. Salter	23.00	AGRICULTURE - IRRIGATION	12/31/1963			4.00
3641		BINGHAM, BERRY RAY		DOMESTIC AND LIVESTOCK	10/29/1973			30.00
3642	A	Natural Dairy Grower Land, LP	9.00	AGRICULTURE - IRRIGATION	07/31/1960			
3643		Janice McCullough Joe Paul McCullough	69.00	AGRICULTURE - IRRIGATION	04/30/1953			36.00
3644		STEPHENS, RODNEY	15.00	AGRICULTURE - IRRIGATION	07/05/1976			15.00
3645		Janice McCullough Joe Paul McCullough	14.57	AGRICULTURE - IRRIGATION	07/12/1971			18.00
3645		Clayton W. Mercer	3.43	AGRICULTURE - IRRIGATION	07/12/1971			
3645		Janice McCullough Joe Paul McCullough		AGRICULTURE - IRRIGATION	10/06/1980			24.00
3646		LUKER, GEORGE	3.88	AGRICULTURE - IRRIGATION	06/30/1967			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3646		ROACH, LOU MARCENE	3.12	AGRICULTURE - IRRIGATION	06/30/1967			
3647		PETTIT, LINDA MOORE	41.00	AGRICULTURE - IRRIGATION	09/30/1954			126.00
3648		Patricia Moore Terry Jack Moore	49.00	AGRICULTURE - IRRIGATION	08/31/1952			6.00
3650		MOORE, GARY WOODS, CHERYLE D	34.00	AGRICULTURE - IRRIGATION	07/31/1964			7.50
3651	B	Christina W. McCullough Joe Mark McCullough	107.00	AGRICULTURE - IRRIGATION	07/31/1961			
3651		MOORE, JOE D	15.00	AGRICULTURE - IRRIGATION	07/31/1961			
3652	A	Rodney Stephens, LP	8.00	AGRICULTURE - IRRIGATION	07/31/1964			
3652	A	Rodney Stephens, LP		AGRICULTURE - IRRIGATION	12/11/2015			0.42
3653	C	Conargo, LLC	226.00	AGRICULTURE - IRRIGATION	01/31/1965			
3653		Rodney Stephens, LP	200.00	AGRICULTURE - IRRIGATION	12/31/1953			
3653		Artesian Ranch, LLC	149.40	AGRICULTURE - IRRIGATION	12/31/1953			
3653	D	Natural Dairy Grower Land, LP	100.00	AGRICULTURE - IRRIGATION	12/31/1953			
3653	C	Conargo, LLC	32.00	AGRICULTURE - IRRIGATION	12/31/1953			
3653	D	Natural Dairy Grower Land, LP	11.40	AGRICULTURE - IRRIGATION	08/31/1963			
3653		Artesian Ranch, LLC	0.60	AGRICULTURE - IRRIGATION	08/31/1963			
3654		Billy Wayne & Carolyn Jean Hayes Family Trust	32.67	AGRICULTURE - IRRIGATION	07/31/1963			
3654		Kenneth Ray Rinehart	32.67	AGRICULTURE - IRRIGATION	07/31/1963			
3654		Billy Wayne & Carolyn Jean Hayes Family Trust	32.66	AGRICULTURE - IRRIGATION	07/31/1963			
3655		Gary K. Boyd	22.00	AGRICULTURE - IRRIGATION	12/31/1957			
3656		Juanita Seider Martin Seider	36.00	AGRICULTURE - IRRIGATION	07/31/1966			
3657		Lenora Haggard David Danny Davis	56.00	AGRICULTURE - IRRIGATION	07/31/1965			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3658		VESTRY, L.P.	6.53	AGRICULTURE - IRRIGATION	03/31/1963			
3658		COUCH, KARLA PETERS, JEANETTE POITRAS, JANRVE WILLINGHAM, COYE WILLINGHAM, I C	0.47	AGRICULTURE - IRRIGATION	03/31/1963			
3659		P&G Ranch Properties, LLC	200.00	MUNICIPAL/DOMESTIC	07/20/1925			1,000.00
3659		P&G Ranch Properties, LLC	200.00	AGRICULTURE - IRRIGATION	03/29/1976			
3660		P&G Ranch Properties, LLC	50.37	AGRICULTURE - IRRIGATION	07/31/1952			120.00
3660		P&G Ranch Properties, LLC	11.00	INDUSTRIAL	07/31/1961			
3660		Beverly Rowlett Mike J. Rowlett	7.63	AGRICULTURE - IRRIGATION	07/31/1952			
3661		C. H. McCall Quay McCall	187.00	AGRICULTURE - IRRIGATION	06/30/1964			
3662		GORE, DORIS S GORE, JIMMY E	291.46	AGRICULTURE - IRRIGATION	12/18/1947			
3662		GORE, DORIS S	147.27	AGRICULTURE - IRRIGATION	12/18/1947			
3662	B	HARVICK, KENNETH D HARVICK, VICKIE	120.92	AGRICULTURE - IRRIGATION	12/18/1947			5.20
3662		Lake Comanche Property Owners Association	19.18	AGRICULTURE - IRRIGATION	12/18/1947			
3662		GORE, JIMMY E	2.77	AGRICULTURE - IRRIGATION	12/18/1947			
3662		Lake Comanche Property Owners Association		RECREATION	04/22/1975			4,800.00
3663		Billie Jean Basham	67.00	AGRICULTURE - IRRIGATION	04/30/1949			36.00
3664		Mary Ellen McKillip MCKILLIP, TRUMAN	3.00	AGRICULTURE - IRRIGATION	09/27/1976			1.50
3665		MCKILLIP, TRUMAN	50.00	AGRICULTURE - IRRIGATION	07/31/1978			190.00
3666		Arvel Fleming Ethel Mae Fleming	14.00	AGRICULTURE - IRRIGATION	05/30/1966			14.00
3667		RUSSELL ESTLACK SCARLET ESTLACK	125.00	AGRICULTURE - IRRIGATION	04/17/1968			
3668		Arlin LeRoy Hartzog Trudy Hartzog	75.00	AGRICULTURE - IRRIGATION	02/05/1968			75.00
3669		Kuntz Cattle Co.		OTHER	06/06/1977			30.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3670		Randy K. Roberts	120.00	AGRICULTURE - IRRIGATION	11/17/1969			90.00
3671		J. W. Gammon	338.00	AGRICULTURE - IRRIGATION	03/10/1975			
3672		A. Wayne Clark	988.00	AGRICULTURE - IRRIGATION	03/10/1975			
3673		COX T 5, INC.	1,248.00	AGRICULTURE - IRRIGATION	03/10/1975			4,427.00
3674		DANIEL, JIM ROY	26.00	AGRICULTURE - IRRIGATION	03/10/1975			
3675		MCGILL, TOM B	86.00	AGRICULTURE - IRRIGATION	06/30/1961			12.00
3676		THE TWELVE COMPANY	10.00	AGRICULTURE - IRRIGATION	09/29/1969			10.00
3677		Brent Steven Lemons Keith David Lemons	31.00	AGRICULTURE - IRRIGATION	02/09/1970			62.00
3677		Wilma Lemons	31.00	AGRICULTURE - IRRIGATION	02/09/1970			
3678		Roy Taack	40.00	AGRICULTURE - IRRIGATION	10/09/1968			10.00
3679		L. D. Amerson	2.50	AGRICULTURE - IRRIGATION	06/25/1973			2.00
3680		CARSON, KW	1.20	AGRICULTURE - IRRIGATION	07/31/1978			3.50
3681		HECK, MARJORIE W	1.00	AGRICULTURE - IRRIGATION	12/19/1977			1.20
3682		Kerri Falkenberg Randy Falkenberg	28.00	AGRICULTURE - IRRIGATION	04/01/1970			28.00
3683		High Plains Pavers, Inc.	110.00	AGRICULTURE - IRRIGATION	03/29/1976			110.00
3684		JAMES, RICKY JOE	80.00	AGRICULTURE - IRRIGATION	03/15/1976			3.00
3685		Douglas Alan Keesee	170.00	AGRICULTURE - IRRIGATION	05/21/1979			224.00
3685		Douglas Alan Keesee	150.00	AGRICULTURE - IRRIGATION RECREATION	07/14/1975			200.00
3686		Kay Todd	120.00	AGRICULTURE - IRRIGATION	11/15/1976			
3687		Legacy Dairy Farms, Ltd.	75.00	AGRICULTURE - IRRIGATION	11/15/1976			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3688		Joel B. Mitchell	87.00	AGRICULTURE - IRRIGATION	01/31/1963			
3689		Glenith B. Amonett	48.00	AGRICULTURE - IRRIGATION	03/10/1969			53.20
3690		Charles Donald Schuler	2.00	AGRICULTURE - IRRIGATION	12/31/1960			
3691		Harrison N. Watson Jr Shirley Dean Watson	11.00	AGRICULTURE - IRRIGATION	11/12/1963			150.00
3692		Otis English Jr.	29.00	AGRICULTURE - IRRIGATION	05/12/1953			14.50
3693		White River Municipal Water District	4,000.00	MUNICIPAL/DOMESTIC	09/22/1958			33,160.00
3693		White River Municipal Water District	2,000.00	MINING	09/22/1958			
3693		White River Municipal Water District		MUNICIPAL/DOMESTIC	11/21/1960			5,072.00
3693		White River Municipal Water District		MUNICIPAL/DOMESTIC	08/16/1971			6,665.00
3694		Joanie Hudgeons Phillip Hudgeons	47.00	AGRICULTURE - IRRIGATION	12/02/1966			
3695		Marvin Shurbet	80.00	AGRICULTURE - IRRIGATION	09/29/1969			1.00
3696		SPUR RANCH, L.L.C.	260.00	AGRICULTURE - IRRIGATION RECREATION	09/14/1965			634.00
3697		SPUR RANCH, L.L.C.		RECREATION	08/28/1972			338.00
3698		SPUR RANCH, L.L.C.	768.00	AGRICULTURE - IRRIGATION RECREATION	08/01/1966			2,249.00
3699		Trent G. and Susanne Long Living Trust	160.00	AGRICULTURE - IRRIGATION RECREATION	06/02/1969			437.00
3700		Jesse H. Daughtery Ruby H. Daughtery	160.00	AGRICULTURE - IRRIGATION	11/17/1969			
3701		Kent County		MUNICIPAL/DOMESTIC	10/01/1925			296.00
3702		Don H. Murphy		AGRICULTURE - STOCKRAISING RECREATION	11/24/1969			850.00
3703		HETTINGA REVOCABLE TRUST	148.16	AGRICULTURE - IRRIGATION	11/25/1968			
3703		Zona Ann Gatewood	102.77	AGRICULTURE - IRRIGATION	11/25/1968			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3703		W.T. Millen	4.08	AGRICULTURE - IRRIGATION	11/25/1968			
3704		McCarty Agricultural Properties, LLC	50.00	AGRICULTURE - IRRIGATION	06/30/1962			105.00
3705		City of Lubbock	4,816.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	06/10/1996			
3705		City of Lubbock		RECREATION	04/06/1972			577.00
3706		Lubbock County Water Control Improvement District 1		RECREATION	04/08/1957			4,730.00
3707		Town of Ransom Canyon	150.00	MUNICIPAL/DOMESTIC RECREATION	04/06/1972			282.00
3707		Town of Ransom Canyon	4.00	AGRICULTURE - IRRIGATION RECREATION	08/25/1980			8.00
3707		Town of Ransom Canyon		RECREATION	04/16/1962			278.00
3708		CADDELL, DELTON	120.00	AGRICULTURE - IRRIGATION	08/01/1966			180.00
3709		Jan Wood Nathaniel Clark Wood Jr.	795.00	AGRICULTURE - IRRIGATION	04/17/1968			196.00
3709		Jan Wood Nathaniel Clark Wood Jr.	15.00	AGRICULTURE - IRRIGATION	12/31/1967			5.00
3710		R. E. Janes Gravel Co.	450.00	MINING	04/17/1968			196.00
3711		White River Municipal Water District	5,600.00	MUNICIPAL/DOMESTIC	01/20/1970			
3711		White River Municipal Water District	4,000.00	MINING	01/20/1970			
3711		White River Municipal Water District	1,000.00	INDUSTRIAL	01/20/1970			
3711		White River Municipal Water District		INDUSTRIAL MINING MUNICIPAL/DOMESTIC	01/20/1970			57,420.00
3713		CASSANDRA KEITH MARION H. KEITH	140.00	AGRICULTURE - IRRIGATION	06/30/1967			430.00
3714		Debra Elaine Parks Trust Donna Marie Isaacs Eddie Frank Parks	63.00	AGRICULTURE - IRRIGATION	12/11/1969			185.00
3715		Barbara C. Boren James Boren Joan C. Hood Odie A. Hood	166.00	MUNICIPAL/DOMESTIC	11/16/1927			526.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3716		Carol Sue Reed	134.00	AGRICULTURE - IRRIGATION	12/31/1958			2.00
3717		BALDRIDGE FAMILY LAND, LTD.	420.00	AGRICULTURE - IRRIGATION	08/31/1951			
3718		Occidental Permian Ltd.	3,525.00	MINING	03/05/1958			
3718		Occidental Permian Ltd.	2,375.00	MINING	07/22/1969			
3720		Kathy McCombs Smartt	44.00	AGRICULTURE - IRRIGATION	10/05/1963			185.00
3721		COX, BRUCE Patsy K. Cox	100.00	AGRICULTURE - IRRIGATION	02/28/1965			176.00
3721		COX, BRUCE Patsy K. Cox	26.00	INDUSTRIAL	03/31/1966			
3721		Abilene Country Club		RECREATION	03/12/1979			98.00
3721		Abilene Country Club		AGRICULTURE - IRRIGATION RECREATION	03/12/1979			30.00
3721		Abilene Country Club McTan Corporation		AGRICULTURE - IRRIGATION	03/12/1979			
3724		ACROSS THE RIVER FARM, LLC	1,016.00	AGRICULTURE - IRRIGATION	08/31/1955			
3725		Olin Teague Veterans Center		RECREATION	01/24/1977			96.00
3726		ANNE BUTLER COWAN MH Cowan III	5.00	AGRICULTURE - IRRIGATION	07/31/1960			12.00
3726		ANNE BUTLER COWAN MH Cowan III	5.00	AGRICULTURE - IRRIGATION	11/06/1969			
3727		SPRINGER, BARRY SPRINGER, DEBORAH	30.34	AGRICULTURE - IRRIGATION	10/11/1977			
3727		CORNELISON, DOYR CORNELISON, RYTA LAUTERBORN, B R LUERSEN, JOANN NEUSCH, HERMAN ODGEN, ROBERT L OGDEN, MARY D ROSE, DAVID ROSE, THELMA SPRINGER, BARRY SPRINGER, DEBORAH	28.00	INDUSTRIAL	10/11/1977			
3727		CORNELISON, DOYR CORNELISON, RYTA LAUTERBORN, B R	21.83	AGRICULTURE - IRRIGATION	10/11/1977			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		ODGEN, ROBERT L OGDEN, MARY D						
3727		LUERSEN, JOANN	19.57	AGRICULTURE - IRRIGATION	10/11/1977			
3727		ROSE, DAVID ROSE, THELMA	0.26	AGRICULTURE - IRRIGATION	10/11/1977			
3727		CORNELISON, DOYR CORNELISON, RYTA LAUTERBORN, B R LUERSEN, JOANN NEUSCH, HERMAN ODGEN, ROBERT L OGDEN, MARY D ROSE, DAVID ROSE, THELMA SPRINGER, BARRY SPRINGER, DEBORAH		AGRICULTURE - IRRIGATION INDUSTRIAL	10/11/1977			173.00
3728		LOSOSOS, LLC		RECREATION	06/05/1978			246.00
3729		TIEMANN, CARRIE L TIEMANN, ROBERT M	100.00	AGRICULTURE - AQUACULTURE INDUSTRIAL	09/27/1976			387.00
3730		Timothy J. Callan	21.00	AGRICULTURE - IRRIGATION	03/01/1967			0.19
3731		EBS Ventures, LLC	10.13	AGRICULTURE - IRRIGATION	12/31/1962			
3731		Candice Catherine Allmand	8.72	AGRICULTURE - IRRIGATION	12/31/1962			
3731		Bobby Zugg Heather Zugg	5.81	AGRICULTURE - IRRIGATION	12/31/1962			
3731		David P. Granchukoff Helen E. Granchukoff	2.91	AGRICULTURE - IRRIGATION	12/31/1962			
3731		Eileen Bucayan Burton E. Stovall	1.43	AGRICULTURE - IRRIGATION	12/31/1962			
3732		The San Gabriel River Ranch, Inc.		RECREATION	05/17/1976			26.00
3733		Georgetown Builders Inc.		RECREATION	09/17/1970			40.00
3733		Georgetown Builders Inc.		RECREATION	11/22/1976			4.00
3734		Georgetown Country Club	45.00	AGRICULTURE - IRRIGATION	12/31/1941			10.00
3735		Gary Ray Rylander Henry Grady Rylander, III	26.00	AGRICULTURE - IRRIGATION	06/30/1963			
3736		Martha Jane Beiter	1.00	AGRICULTURE - IRRIGATION	06/30/1961			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3737		Alamo Concrete Products Company	300.00	MINING	05/04/1970		30.00	
3738		City of Georgetown		RECREATION	12/06/1976			11.00
3739	A	Alamo Concrete Products Company	240.00	MINING	03/01/1964		24.00	
3740		DAVID T. GIBSON	20.00	AGRICULTURE - IRRIGATION	05/01/1963			
3741		Theodore J. Kallus and Mary E. Kallus Revocable Living Trust	17.10	AGRICULTURE - IRRIGATION	05/01/1964			
3741		Ragan Scott Pope	10.90	AGRICULTURE - IRRIGATION	05/01/1964			
3742		City of Georgetown	16.85	AGRICULTURE - IRRIGATION	05/01/1964			
3742		Maxine Harris L. Marie Pope R. Scott Pope	7.15	AGRICULTURE - IRRIGATION	05/01/1964			
3743		PINNACLE BUILDING CO., INC.	32.00	AGRICULTURE - IRRIGATION	03/31/1954			
3744		T.D. Vaughan	50.14	AGRICULTURE - IRRIGATION	09/30/1952			
3744		1901 CR 103, LLC	13.35	AGRICULTURE - IRRIGATION	09/30/1952			
3744		SUSAN SHESKEY	12.48	AGRICULTURE - IRRIGATION	09/30/1952			
3744		Michelle Stott Rick Stott	12.44	AGRICULTURE - IRRIGATION	09/30/1952			
3744		Pam Bilbrey Joseph Connolly	10.72	AGRICULTURE - IRRIGATION	09/30/1952			
3744		JILL M SPILOTRO MARK A SPILOTRO	6.50	AGRICULTURE - IRRIGATION	09/30/1952			
3744		DAVID M. HENRY MELISSA F. HENRY	4.67	AGRICULTURE - IRRIGATION	09/30/1952			
3745		Old Mills Road, LLC	33.00	AGRICULTURE - IRRIGATION	12/31/1963			
3746		Charlene M Sefcik	12.00	AGRICULTURE - IRRIGATION	12/31/1957			
3747		05 Ranch Investments, LLC	284.00	AGRICULTURE - IRRIGATION	07/31/1966			
3748		James Auburn Curik John Louis Curik Donna Josey Linda Scarbrough	203.00	INDUSTRIAL	12/31/1945		20.00	

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3749		PEARSON, W T JR	68.72	AGRICULTURE - IRRIGATION	04/30/1967			
3749		GRANZIN, TIFFANY L GRANZIN, TOBY J	27.59	AGRICULTURE - IRRIGATION	04/30/1967			
3749		FLECK, CAROL	10.70	AGRICULTURE - IRRIGATION	04/30/1967			
3749		WILKINS, ALICE WILLIAMS	3.00	AGRICULTURE - IRRIGATION	04/30/1967			
3750		Christopher Hunter Coffield King Scott Coffield THOMAS REDDICK COFFIELD, IV	125.00	AGRICULTURE - IRRIGATION	06/30/1943			
3751		City of Round Rock	30.00	AGRICULTURE - IRRIGATION	08/18/1922			
3752		City of Taylor		RECREATION	05/17/1976			26.00
3753		Amy L. Eisterhold James F. Eisterhold	0.96	AGRICULTURE - IRRIGATION	07/01/1963			
3753		GLYNDA STILES John R. Stiles	0.04	AGRICULTURE - IRRIGATION	07/01/1963			0.50
3753		The Estate of John V. Stiles		AGRICULTURE - IRRIGATION	07/01/1963			120.00
3754		City of Thorndale	60.00	MUNICIPAL/DOMESTIC	06/20/1961			
3755		Winterrowd Farms, Inc.	34.77	AGRICULTURE - IRRIGATION	04/30/1963			95.00
3755		James Barrington DANIEL H CROFUT TOM CROFUT FRANK ROVELLI	4.86	AGRICULTURE - IRRIGATION	04/30/1963			
3755		Jeffrey M Berger Rudie L. Berger	4.15	AGRICULTURE - IRRIGATION	04/30/1963			153.00
3755		MAXIMIANO L. VAZQUEZ	3.62	AGRICULTURE - IRRIGATION	04/30/1963			
3755		MICHAEL D. GRIMM	1.75	AGRICULTURE - IRRIGATION	04/30/1963			15.00
3755		MANUEL VARGAS, JR Rose Marie Vargas	0.66	AGRICULTURE - IRRIGATION	04/30/1963			
3755		BRETT A. TURNER ROSEMARIE H. TURNER	0.20	AGRICULTURE - IRRIGATION	04/30/1963			
3756		STILES RANCH, INC.	3.00	AGRICULTURE - IRRIGATION	07/01/1953			
3757		City of Thorndale	150.00	MUNICIPAL/DOMESTIC	09/20/1982			
3757		City of Thorndale	100.00	MUNICIPAL/DOMESTIC	09/15/1966			469.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3758		SLR Property I, LP	18,000.00	INDUSTRIAL MINING	12/12/1951			
3759		3K River Ranch, LLC	300.00	AGRICULTURE - IRRIGATION	08/29/1977			50.00
3760		Britta Herzog Glenn Herzog	41.50	AGRICULTURE - IRRIGATION	07/17/1925			
3761		CITY OF CAMERON	2,792.00	MUNICIPAL/DOMESTIC	03/20/1914			10.00
3761		NORRIS, ROBERT W	400.00	AGRICULTURE - IRRIGATION	05/27/1980			
3762		Ellis G. Marshall Jean M. Marshall	100.00	AGRICULTURE - IRRIGATION	05/27/1980			
3762		Donnie Ray Betchan		AGRICULTURE - AQUACULTURE INDUSTRIAL	02/12/1973			195.00
3763		SM Retreat, Ltd.	327.02	AGRICULTURE - IRRIGATION	05/27/1980			
3763		MEYER, ALICE JANE	122.98	AGRICULTURE - IRRIGATION	05/27/1980			20.00
3763		Sherwood Properties, Inc.	40.00	AGRICULTURE - IRRIGATION	07/31/1952			
3764		BRL Ranches, L.P.	45.00	AGRICULTURE - IRRIGATION	07/01/1952			
3765		BRL Ranches, L.P.	148.00	AGRICULTURE - IRRIGATION	07/28/1956			
3766		Forty-Four Farms, L.P.	90.00	AGRICULTURE - IRRIGATION	12/31/1952			2.00
3767		Five Wells Ranch Company	120.00	AGRICULTURE - AQUACULTURE AGRICULTURE - IRRIGATION	07/19/1971			358.00
3768		LLOYD, JUDY LLOYD, MICHAEL	112.00	AGRICULTURE - IRRIGATION INDUSTRIAL	02/28/1977			
3768		Cameron Duck Club, Ltd.	12.70	AGRICULTURE - IRRIGATION	05/31/1965			
3768		ISAACKS, CAROL ISAACKS, GRADY LLOYD, JUDY LLOYD, MICHAEL NGUYEN, JIM RAMSEY, CECILIA RAMSEY, DONALD		AGRICULTURE - IRRIGATION	02/28/1977			240.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		RANDOLPH, KEVIN RANDOLPH, SUSAN WILBURN, BECKY WILBURN, JAMES D						
3768		LLOYD, JUDY LLOYD, MICHAEL		AGRICULTURE - IRRIGATION	02/28/1977			69.00
3769		Larry McClaren	150.00	AGRICULTURE - IRRIGATION	08/31/1956			
3770		Antonia Fulton Michael Fulton	149.00	AGRICULTURE - IRRIGATION	06/30/1959			
3771		Elliott W. Atkinson Harriett G. Clemens Mary V. Smither Emily Spann	15.00	AGRICULTURE - IRRIGATION	07/31/1962			
3772		V T White	8.00	AGRICULTURE - IRRIGATION	07/31/1966			
3773		HANOVER RANCH, L.P.	1,300.00	AGRICULTURE - IRRIGATION	08/31/1956			11.56
3774		Antonia Fulton Michael Fulton	16.85	AGRICULTURE - IRRIGATION	06/30/1959			
3774		JOHN R. PAGACH	6.58	AGRICULTURE - IRRIGATION	06/30/1959			
3774		WILLIAM J. PAGACH	6.58	AGRICULTURE - IRRIGATION	06/30/1959			
3775		LEIFESTE, BETTY Lloyd E. Leifeste	1,200.25	AGRICULTURE - IRRIGATION	04/10/1960			
3775		LEIFESTE, BETTY Lloyd E. Leifeste	500.00	AGRICULTURE - IRRIGATION	09/29/2000			
3775		UNKNOWN, OWNER	66.75	AGRICULTURE - IRRIGATION	04/10/1960			
3808	C	CLARK, DON FRAZIER Donna Clark Jones as Trustee for Caden R. Jones Donna Clark Jones as Trustee for Colten H. Jones JONES, DONNA CLARK JONES, DUSTIN K		AGRICULTURE	04/28/2009			1,271.00
3809		Rancho De Presas, LLC	230.00	AGRICULTURE - IRRIGATION	11/03/1980			
3813		Kevin Igo Roxie Igo	8.00	AGRICULTURE - IRRIGATION	03/24/1981			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
3826		Upper Leon River Municipal Water District		AGRICULTURE - IRRIGATION	05/11/1981			45.00
3844		EJM Anderson Corp. Inc. J.E.L.M., Inc.	246.00	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK	11/10/1980			421.00
3844		SMITH, BETTY EARLDEAN SWIFT, CUSTER SWIFT, IRA WAY SWIFT, LUTHER G	107.22	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK	11/10/1980			421.00
3844		FEIST, DONALD FEIST, MICHAEL	48.78	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK	11/10/1980			421.00
3851		RANDLE, WALKER MURRAY	12.49	AGRICULTURE - IRRIGATION	12/12/1981			17.00
3851		Walnut Creek Farms of Granbury, Inc.	2.59	AGRICULTURE - IRRIGATION	12/12/1981			
3851		CATHY PHILIPSKI	1.84	AGRICULTURE - IRRIGATION	12/12/1981			
3851		Sam C. Cowan Jr.	0.08	AGRICULTURE - IRRIGATION	12/12/1981			
3880		Arlie Coan COAN, LYNDELL F		DOMESTIC AND LIVESTOCK	03/22/1982			60.00
3902		Anita Meeves Steven R. Meeves		DOMESTIC AND LIVESTOCK	05/03/1982			25.00
3902		Anita Meeves Steven R. Meeves		DOMESTIC AND LIVESTOCK	05/03/1982			
3902		Anita Meeves Steven R. Meeves		DOMESTIC AND LIVESTOCK	05/03/1982			
3915		Texas Department of Criminal Justice	60.00	AGRICULTURE - IRRIGATION	05/10/1982			
3936	D	Marecek Land & Cattle, LLC	2,399.24	AGRICULTURE - IRRIGATION	08/30/1982			
3936	D	Marecek Land & Cattle, LLC	2,200.00	AGRICULTURE - IRRIGATION				
3936		Holy Land & Cattle	200.00	AGRICULTURE - IRRIGATION	08/30/1982			
3936		Daniel K. Holy Delores Jane Holy Donald F. Holy Mary Ann Holy	0.76	AGRICULTURE - IRRIGATION	08/30/1982			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		Raymond Holy, Jr. Thomas V. Holy						
3939	A	Roy Brian Lesley Sandra Kay Lesley Pierce	245.00	AGRICULTURE - IRRIGATION RECREATION	11/01/1982			725.00
3971		Tonkawa Springs Home Owners Association		DOMESTIC AND LIVESTOCK RECREATION	01/31/1983			7.50
3985	B	City of Lubbock	32,991.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	03/07/1983			
3985	C	City of Lubbock	13,825.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION				
3999		SIMPSON, BOB R	25.00	AGRICULTURE - IRRIGATION	08/16/1956			
4000		Michael D. Lasley Rhonda M. Lasley	31.00	AGRICULTURE - IRRIGATION	04/30/1963			
4000		Odessa J. Lovelace Thomas E. Lovelace	20.00	AGRICULTURE - IRRIGATION	09/20/1982			
4001		EWTON, M F	40.00	AGRICULTURE - IRRIGATION	05/31/1962			
4002		Robert L. Cranford	15.00	AGRICULTURE - IRRIGATION	12/31/1965			200.00
4002		KAREN P. MILLER RICKY D. MILLER	14.48	AGRICULTURE - IRRIGATION	09/20/1982			
4002		Helene C. Morrow Joseph B. Morrow	13.12	AGRICULTURE - IRRIGATION	09/20/1982			
4002		LINDA D. HUNTER	11.34	AGRICULTURE - IRRIGATION	09/20/1982			
4002		CHARLES BURTON YE POM BURTON	0.55	AGRICULTURE - IRRIGATION	09/20/1982			
4002		TAMMY BURTON CEHAND	0.51	AGRICULTURE - IRRIGATION	09/20/1982			
4003		G. C. Moore	41.00	AGRICULTURE - IRRIGATION	09/30/1974			197.00
4003		ITHA LYNNE BERRY Mike H. Berry	29.70	AGRICULTURE - IRRIGATION	09/20/1982			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4004		City of Graford	50.00	MUNICIPAL/DOMESTIC	02/01/1957			50.00
4004		City of Graford	5.00	MUNICIPAL/DOMESTIC	03/18/1932			
4005		BINES, AUDREY DALAS BROOKS, AMBER MICHELLE BROOKS, JOSEPH D Katherine Brooke Carey CAREY, WILLIAM KNOX Aime`e Rhodes Cook John Rhodes Cook REAGAN, CAROL B	781.00	AGRICULTURE - IRRIGATION	04/30/1932			250.00
4006		Pollard Hill Ranch, LLC	63.00	AGRICULTURE - IRRIGATION	12/31/1958			
4007		RIPPETOE, MARY	50.00	AGRICULTURE - IRRIGATION	06/07/1976			
4008		BRUMBAUGH, JAY LARRY BRUMBAUGH, SALLY M	63.06	AGRICULTURE - IRRIGATION	07/01/1956			
4008		Lawrence Carey Gary D. Pope Larry D. Pope	46.94	AGRICULTURE - IRRIGATION	07/01/1956			
4009		C H & Betty Jean Williamson	135.66	AGRICULTURE - IRRIGATION	04/18/1983			
4009		BRUMBAUGH, JAY LARRY BRUMBAUGH, SALLY M	19.68	AGRICULTURE - IRRIGATION	12/31/1962			
4009		AMMONS, JOHN F	4.32	AGRICULTURE - IRRIGATION	12/31/1962			
4011		KHK Foggy Bottom Farms, Inc.	1,398.29	AGRICULTURE - IRRIGATION	12/20/1982			
4011		Jackie Lee Chastain Et. Al.	8.00	AGRICULTURE - IRRIGATION	07/31/1966			
4012		Betsy N. Curry Billy G. Curry W.L. Curry MILDRED CURRY KAISER BETTY ANN CURRY LEWIS	440.00	AGRICULTURE - IRRIGATION	12/13/1982			
4012		COMANCHE BEND TRUST	236.00	AGRICULTURE - IRRIGATION	09/30/1964			
4013		Edmund V. Macha Felix H. Macha Robert L. Macha	1,200.00	AGRICULTURE - IRRIGATION	11/29/1982			
4013		Rocking W Ranch, L.P.	525.00	AGRICULTURE - IRRIGATION	11/14/1947			350.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4013		LA ROCA'S MAGIC VALLEY RANCH LP	429.00	AGRICULTURE - IRRIGATION	11/14/1947			204.00
4013		THREE AMIGOS INVESTMENT GROUP, LLC	250.00	AGRICULTURE - IRRIGATION	11/14/1947			92.11
4013		RIO ROCA RANCH, LP	25.00	AGRICULTURE - IRRIGATION	11/14/1947			
4014		WALSH RANCHES LIMITED PARTNERSHIP	1,851.00	AGRICULTURE - IRRIGATION	09/22/1982			
4014		BARNARD PARTNERS XII, LTD.	500.00	AGRICULTURE - IRRIGATION	04/12/1926			1,158.00
4014		BARNARD PARTNERS XII, LTD.	100.00	INDUSTRIAL	04/12/1926			
4015		Calvin Kraemer Margie Kraemer	350.00	AGRICULTURE - IRRIGATION	09/20/1982			
4015		Chamberlin Family Trust	350.00	AGRICULTURE - IRRIGATION	09/20/1982			
4015		BARNARD PARTNERS XII, LTD.	27.00	AGRICULTURE - IRRIGATION	12/31/1963			
4016		KR Sod - Brazos, L.P.	1,742.45	AGRICULTURE - IRRIGATION	12/20/1982			
4016		KR Sod - Brazos, L.P.	1,400.00	AGRICULTURE - IRRIGATION	12/20/1982			
4016		KR Sod - Brazos, L.P.	990.00	AGRICULTURE - IRRIGATION	03/13/1984			
4016		KHK Foggy Bottom Farms, Inc.	756.55	AGRICULTURE - IRRIGATION	12/20/1982			
4016		Ted Higgenbottom Bill Kirk David Kirk	551.00	AGRICULTURE - IRRIGATION	12/20/1982			13.00
4016		Lucie M. Olson	22.00	AGRICULTURE - IRRIGATION	05/17/1971			12.00
4016		KR Sod - Brazos, L.P.		DOMESTIC AND LIVESTOCK	12/20/1982			30.00
4017		Jerry M Moore	610.04	AGRICULTURE - IRRIGATION	12/20/1982			
4017		BRAZOS BEND 2012 TRUST	352.36	AGRICULTURE - IRRIGATION	12/20/1982			
4017		M Bar W LLC	40.00	AGRICULTURE - IRRIGATION	11/19/1973			188.00
4018		HODGES, CHARLES B	40.00	AGRICULTURE - IRRIGATION	11/19/1973			48.00
4019		City of Strawn	160.00	MUNICIPAL/DOMESTIC	04/19/1937			1,200.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4020		P J K FAMILY LIMITED PARTNERSHIP	362.00	AGRICULTURE - IRRIGATION	02/15/1963			
4021		MARTIN, BRANDY	41.00	MINING	03/01/1971			
4021		MARTIN, BRANDY	30.00	AGRICULTURE - IRRIGATION	03/01/1971			164.00
4022		Penny Sparks	60.00	AGRICULTURE - IRRIGATION	04/30/1963			
4023		WEINACHT, CHARLES Don Weinacht Ellen Weinacht Mary Ann Weinacht	600.00	AGRICULTURE - IRRIGATION	02/07/1983			
4023		Cook Canyon Ranch, Ltd.	30.00	AGRICULTURE - IRRIGATION	04/30/1964			30.00
4024		City of Gordon	245.00	MUNICIPAL/DOMESTIC	10/31/1991			325.00
4024		City of Belton	185.70	AGRICULTURE - IRRIGATION	02/07/1983			15.00
4024		City of Gordon	115.00	MUNICIPAL/DOMESTIC	06/04/1973			698.00
4024		Gated River One, LLC	114.30	AGRICULTURE - IRRIGATION	02/07/1983			
4024		City of Gordon	45.00	MUNICIPAL/DOMESTIC	05/22/1978			60.00
4025		Quail Valley Associates, L.L.C.	60.00	MUNICIPAL/DOMESTIC	10/15/1973			700.00
4025		Quail Valley Associates, L.L.C.	30.00	MINING RECREATION	10/15/1973			
4026		Wingshot, L.P.	20.00	MUNICIPAL/DOMESTIC	10/15/1973			
4027		FIFTY EIGHT FIFTY, LLC	80.00	AGRICULTURE - IRRIGATION	01/20/1965			969.00
4028		Mona Lynn McDaniel Living Trust	38.00	AGRICULTURE - IRRIGATION INDUSTRIAL	05/31/1933			30.00
4029		Texas Parks And Wildlife Department	2.00	AGRICULTURE - IRRIGATION	01/05/1970			26.00
4030		Texas Parks And Wildlife Department		RECREATION	02/07/1977			307.00
4031		Palo Pinto County Municipal Water District 1	10,000.00	MUNICIPAL/DOMESTIC	07/03/1962			44,100.00
4031		Palo Pinto County Municipal Water District 1	6,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION	07/03/1962			
4031		Palo Pinto County Municipal Water District 1	2,500.00	MUNICIPAL/DOMESTIC	09/08/1964			24.00
4031		Palo Pinto County Municipal Water District 1		MUNICIPAL/DOMESTIC	11/25/2009			5,692.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4032		Charlie Cockburn	16.00	AGRICULTURE - IRRIGATION	07/31/1965			
4033		SIMPSON, BOB R	12.00	AGRICULTURE - AQUACULTURE INDUSTRIAL	06/26/1972			24.00
4034		Janie Lee McDaniel Trust	30.00	AGRICULTURE - IRRIGATION INDUSTRIAL	03/31/1955			15.00
4035		Legacy Dairy Farms, Ltd.	200.00	AGRICULTURE - IRRIGATION	05/31/1983			
4035		Janie Lee McDaniel Trust	5.00	AGRICULTURE - IRRIGATION INDUSTRIAL	12/31/1963			
4036		Texas Parks And Wildlife Department	55.00	AGRICULTURE - IRRIGATION	10/11/1977			139.00
4038		Estate of Raymond L. Martin	118.15	AGRICULTURE - IRRIGATION	05/31/1964			
4038		SINGLETARY, MARK	31.85	AGRICULTURE - IRRIGATION	05/31/1964			
4039		City of Mineral Wells	1,680.00	AGRICULTURE - IRRIGATION MUNICIPAL/DOMESTIC RECREATION	11/15/1920			7,065.00
4039		City of Mineral Wells	840.00	MUNICIPAL/DOMESTIC RECREATION	03/22/1943			
4040		Delmar King Martha Jane King	30.00	AGRICULTURE - IRRIGATION	04/26/1982			50.00
4040		Delmar King Martha Jane King	8.00	AGRICULTURE - IRRIGATION	10/31/1966			10.00
4041		Walden Family Properties, Ltd.	8.00	AGRICULTURE - IRRIGATION	08/31/1965			8.00
4042		Arcosa Aggregates, Inc.	700.00	AGRICULTURE - IRRIGATION	02/07/1983			
4042		Walden Family Properties, Ltd.	42.00	AGRICULTURE - IRRIGATION	08/31/1965			30.00
4043		Branson Capital Partners, Ltd.	100.00	AGRICULTURE - IRRIGATION	08/17/1970			162.00
4044		WOODRUFF, D C	61.56	AGRICULTURE - IRRIGATION	07/31/1957			
4044		SIMPSON, BOB R	31.98	AGRICULTURE - IRRIGATION	07/31/1957			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4044		WOODRUFF, WANDA J	21.88	AGRICULTURE - IRRIGATION	07/31/1957			
4044		COFER-TAYLOR, KARLA TAYLOR, ROBERT S	5.71	AGRICULTURE - IRRIGATION	07/31/1957			
4044		WOODRUFF-BROWN, SHERYL ANN	5.49	AGRICULTURE - IRRIGATION	07/31/1957			
4044		MCWHORTER, JEANNIE WOODRUFF	5.02	AGRICULTURE - IRRIGATION	07/31/1957			
4044		TYLER, MATTHEW C TYLER, STACI L	4.38	AGRICULTURE - IRRIGATION	07/31/1957			
4044		FERNSTROM, DAPHNE FERNSTROM, EDWARD B	2.87	AGRICULTURE - IRRIGATION	07/31/1957			
4044		LANE, LIONEL R LANE, MARYLYN G	1.75	AGRICULTURE - IRRIGATION	07/31/1957			
4044		MCPHERSON, JOHN DAVID MCPHERSON, ROBIN	1.70	AGRICULTURE - IRRIGATION	07/31/1957			
4044		BELL, CASSIE BELL, RONALD T	1.52	AGRICULTURE - IRRIGATION	07/31/1957			
4044		DEAN, LINDA D DEAN, SIDNEY L	1.27	AGRICULTURE - IRRIGATION	07/31/1957			
4044		NELSON, DALE NELSON, RALPH L	1.22	AGRICULTURE - IRRIGATION	07/31/1957			
4045		Fred Duncan Linda K Duncan	36.86	AGRICULTURE - IRRIGATION	12/31/1958			
4045	A	Barbara Nash NASH, DAVID	29.18	AGRICULTURE - IRRIGATION	12/31/1958			
4045		Cynthia Elders ELDERS, JOHN	8.96	AGRICULTURE - IRRIGATION	12/31/1958			
4046		FULLER, JOHN WILLIAM	64.66	AGRICULTURE - IRRIGATION	12/31/1960			
4046		SCHRECKHISE, SHAWNA SCHRECKHISE, STEVEN	4.34	AGRICULTURE - IRRIGATION RECREATION	12/31/1960			
4047		Brock Vista Ranch LLC	25.35	AGRICULTURE - IRRIGATION	10/31/1964			
4048		HOWARD, ALETA BETH HOWARD, JOHN	35.00	MUNICIPAL/DOMESTIC RECREATION	11/08/1976			
4048		HOWARD, ALETA BETH HOWARD, JOHN	25.00	AGRICULTURE - IRRIGATION	11/08/1976			
4049		Fred Thormann	12.00	AGRICULTURE - IRRIGATION	04/30/1964			2.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4050		David Randolph Thormann Robin Thormann	23.00	AGRICULTURE - IRRIGATION	04/30/1964			2.00
4051		Tripod Ranch, LLC	166.00	AGRICULTURE - IRRIGATION	12/31/1954			
4052	B	SIMPSON, BOB R	760.00	INSTREAM RECREATION	07/31/1954			
4052	B	SIMPSON, BOB R	264.65	INSTREAM RECREATION	10/31/1964			
4052	B	SIMPSON, BOB R	100.00	INSTREAM RECREATION	04/30/1965			
4052	B	SIMPSON, BOB R		RECREATION	06/29/2017			1,963.30
4052	B	SIMPSON, BOB R		RECREATION	06/29/2017			1,069.40
4052	B	SIMPSON, BOB R		RECREATION	06/29/2017			683.28
4053		Western Lake Estates Owners Association		RECREATION	01/13/1975			238.00
4054		Denise Spitler John Wessler	27.27	AGRICULTURE - IRRIGATION	07/31/1962			
4054		Lori Fatheree Matthew S. Fatheree	7.30	AGRICULTURE - IRRIGATION	07/31/1962			
4054		Barbara Luttrell Mike Luttrell	2.81	AGRICULTURE - IRRIGATION	07/31/1962			
4054		Jason Satterwhite Jennifer Satterwhite	1.61	AGRICULTURE - IRRIGATION	07/31/1962			
4055	B	JusRyn Company, Inc.	42.00	AGRICULTURE - IRRIGATION	07/31/1955			
4056		JP Morgan Chase Bank, National Association, Trustee of the Mary Leonard Children's Trust, Trustee of	144.00	AGRICULTURE - IRRIGATION RECREATION	08/31/1967			1,454.00
4057		Charles W. Killough Mary Lee Killough	109.00	AGRICULTURE - IRRIGATION	06/30/1962			
4058		Oak Trail Owners Association		RECREATION	12/20/1976			24.00
4059		GRANBURY SMITH, LTD.	35.00	AGRICULTURE - IRRIGATION	12/31/1963			
4060		City of Granbury	293.22	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	07/31/1950			
4060		Lorene Durham Estate of E. E. Durham	248.44	AGRICULTURE - IRRIGATION	07/31/1950			
4060		Maxie Overstreet	74.34	AGRICULTURE - IRRIGATION	07/31/1950			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4061		Brenda Kay Burks Trust The Burks Grandchildren's Trust for Brody Vess Burks The Burks Grandchildren's Trust for Emily Elizabeth Burks Graham The Burks Grandchildren's Trust for Jocelyn Kay Etters The Burks Grandchildren's Trust for Matthew Lee Rhoades	32.50	AGRICULTURE - IRRIGATION	05/31/1956			
4061		Evelyn Sue Smith	16.25	AGRICULTURE - IRRIGATION	05/31/1956			
4061		Evelyn Sue Smith Trust	16.25	AGRICULTURE - IRRIGATION	05/31/1956			
4062	B	Mark O. Thomas Family Irrevocable Asset Trust Agreement	383.00	AGRICULTURE - IRRIGATION	12/31/1955			
4063		MCATEE, CAROLE KEY MCATEE, DAVID R	270.00	AGRICULTURE - IRRIGATION	07/11/1983			30.00
4063		Granpen Associates, L.P.	262.05	AGRICULTURE - IRRIGATION	07/31/1963			
4063		JusRyn Company, Inc.	48.98	AGRICULTURE - IRRIGATION	07/31/1963			
4063		The Resort at Eagle Mountain Lake, L.P.	24.47	AGRICULTURE - IRRIGATION	07/31/1963			
4063		GRANBURY PENINSULA HOMEOWNERS ASSOCIATION, INC.	4.98	AGRICULTURE - IRRIGATION	07/31/1963			
4063		Alamo Builders, L.P.	4.42	AGRICULTURE - IRRIGATION	07/31/1963			
4063		Phillip Jeffrey Ryan Sheryl Ryan	1.62	AGRICULTURE - IRRIGATION	07/31/1963			
4063		Donald R. Carpenter Jr & Melissa A. Carpenter Joint Revocable Living Trust	1.48	AGRICULTURE - IRRIGATION	07/31/1963			
4064		Jess and Gail Visser Family Trust	60.00	AGRICULTURE - IRRIGATION	07/11/1983			200.00
4064		Brenda Kay Burks Trust The Burks Grandchildren's Trust for Brody Vess Burks The Burks Grandchildren's Trust for Emily Elizabeth Burks Graham The Burks Grandchildren's Trust	25.00	AGRICULTURE - IRRIGATION	12/31/1963			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		for Jocelyn Kay Etters The Burks Grandchildren's Trust for Matthew Lee Rhoades						
4065		WHITEHEAD, C J WHITEHEAD, ROBERT	84.00	AGRICULTURE - IRRIGATION	08/31/1963			
4066		Comanche Harbor/Ports O' Call Owners Association		RECREATION	12/20/1976			43.00
4067		CLEVELAND, COURTS JR	52.56	AGRICULTURE - IRRIGATION	12/31/1956			
4067		FIS Investments, Inc	10.44	AGRICULTURE - IRRIGATION	12/31/1956			
4068		Lou Ann Langford	72.00	AGRICULTURE - IRRIGATION	07/31/1967			
4069		RANDLE, WALKER MURRAY	120.00	AGRICULTURE - IRRIGATION	10/21/1974			160.00
4070		Leslie Mabery	141.00	AGRICULTURE - IRRIGATION	08/31/1956			
4071		MABERY, R	83.00	AGRICULTURE - IRRIGATION	08/31/1956			
4072		Lenmo, Inc.	308.00	AGRICULTURE - IRRIGATION	12/31/1956			1.00
4072		Lenmo, Inc.	172.00	AGRICULTURE - IRRIGATION	12/31/1963			
4072		Lenmo, Inc.	117.00	AGRICULTURE - IRRIGATION	05/31/1962			
4074		Linda Damron	26.00	AGRICULTURE - IRRIGATION	08/19/1956			
4075		Charca Ltd		RECREATION	07/05/1976			300.00
4076		Cullen V. Mancuso Patty S. Mancuso	250.00	AGRICULTURE - IRRIGATION	11/07/1983			
4076		Jone E. Snider Robin K. Snider	29.04	AGRICULTURE - IRRIGATION	07/10/1966			
4076		D. Vaughn	4.42	AGRICULTURE - IRRIGATION	07/10/1966			
4076		MAX G. HITT	3.31	AGRICULTURE - IRRIGATION	07/10/1966			
4076		Darren Bullard Dina Bullard	2.23	AGRICULTURE - IRRIGATION	07/10/1966			
4077		D. J. Brown Ruth E. Brown	30.00	AGRICULTURE - IRRIGATION	08/31/1964			
4078		J&M RANCH PROPERTIES, LTD.	344.89	AGRICULTURE - IRRIGATION	09/26/1983			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4078		SCULLY, JUDITH SCULLY, MARLAN	331.48	AGRICULTURE - IRRIGATION	09/26/1983			
4078		TEXAS SCULLYS, LLC	148.63	AGRICULTURE - IRRIGATION	09/26/1983			
4078		Ingram Concrete, LLC	36.24	AGRICULTURE - IRRIGATION	09/30/1957			
4078		Robert and Margaret King Investments, Inc.	17.76	AGRICULTURE - IRRIGATION	09/30/1957			
4079		HILL, JAMES ROBERT	92.00	AGRICULTURE - IRRIGATION	08/31/1964			20.00
4080		Gathan Reistino	1,500.00	AGRICULTURE - IRRIGATION	09/19/1983			47.00
4080		J.V. & M.G. Durant	112.00	AGRICULTURE - IRRIGATION	07/02/1966			
4081		THE VAUGHN LIVING TRUST	160.00	AGRICULTURE - IRRIGATION	07/02/1966			
4082	A	THE VAUGHN LIVING TRUST	114.80	AGRICULTURE - IRRIGATION	07/31/1950			
4082		S.B. Grissom	88.20	AGRICULTURE - IRRIGATION	07/31/1950			
4083		The Orchards on the Brazos, LLC	45.00	AGRICULTURE - IRRIGATION	09/30/1963			
4084		Dane Allison Michelle Allison	25.00	OTHER	11/19/1973			
4084		Dane Allison Michelle Allison	15.88	AGRICULTURE - IRRIGATION	11/19/1973			25.00
4084		Dane Allison Michelle Allison	9.12	AGRICULTURE - IRRIGATION	11/19/1973			
4085		Dane Allison Michelle Allison	17.66	AGRICULTURE - IRRIGATION	12/09/1974			12.00
4085		Earl R. Allison	10.34	AGRICULTURE - IRRIGATION	12/09/1974			
4086		Beverly Lewellen Gary Lewellen	15.00	AGRICULTURE - IRRIGATION	09/02/1975			2.00
4087		HODGES, LELAND A Leland Allen Hodges III Trust 2 Margery Lynn Hodges Trust 2 Priscilla Ann Hodges Trust 2	81.00	AGRICULTURE - IRRIGATION	09/30/1965			360.00
4088		YOUNG, MILTON C YOUNG, VIVIAN L	55.00	AGRICULTURE - IRRIGATION	06/30/1966			2.00
4089		Charles Dameron	8.93	AGRICULTURE - IRRIGATION	03/31/1963			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4089		Ray Dameron	8.93	AGRICULTURE - IRRIGATION	03/31/1963			
4089		Clay Dameron	7.96	AGRICULTURE - IRRIGATION	03/31/1963			
4089		Laura Helen Chester	4.80	AGRICULTURE - IRRIGATION	03/31/1963			
4089		Laura Helen Chester Charles Dameron Ray Dameron	0.38	AGRICULTURE - IRRIGATION	03/31/1963			
4090		Richard T. Lietz Estate	197.00	AGRICULTURE - IRRIGATION	08/14/1967			332.00
4091	A	Stephen Wayne Lesley	360.00	AGRICULTURE - IRRIGATION RECREATION	01/20/1965			511.00
4091		Jacqueline Elliott Kyle S. Elliott		DOMESTIC AND LIVESTOCK	01/03/1984			11.00
4092		Robert D. Adams	6.00	AGRICULTURE - IRRIGATION	07/31/1964			
4093		Windy Hill Rents, LLC	94.00	AGRICULTURE - IRRIGATION	12/31/1963			
4094		Mary E. Albers Charles D. Sanderson J. B. Sanderson Glen E. Wann	16.00	AGRICULTURE - IRRIGATION	06/30/1935			
4095		Sidney Kacir	308.00	AGRICULTURE - IRRIGATION	08/16/1999			
4095		Sidney Kacir	240.00	AGRICULTURE - IRRIGATION	01/17/1984			
4095		J. C. McFall	10.00	AGRICULTURE - IRRIGATION	12/31/1949			
4096		City of Glen Rose		RECREATION	05/28/1974			2.00
4097		Texas Utilities Electric Company, Inc.	23,180.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	04/25/1973		20,780.00	151,500.00
4097		Texas Utilities Electric Company, Inc.		INDUSTRIAL	04/25/1973			
4097		Texas Utilities Electric Company, Inc.		WATER QUALITY	04/25/1973			
4098	A	Bob Harris Oil Company	258.00	AGRICULTURE - IRRIGATION MINING	07/31/1954			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4099		Little L Land Conservancy, LLC	5.00	AGRICULTURE - IRRIGATION	08/31/1949			
4100		Arcosa Aggregates, Inc.	125.00	MINING	12/31/1959			
4101		Texas Parks And Wildlife Department		RECREATION	09/09/1969			1,450.00
4102		Standard Investment Company	77.00	AGRICULTURE - IRRIGATION INDUSTRIAL	12/31/1963			
4103		J. Michael Bray Trustee WAGNER, CYRIL JR	186.00	AGRICULTURE - IRRIGATION	12/31/1955			
4104		Arcosa Aggregates, Inc.	3,811.00	AGRICULTURE - IRRIGATION	12/31/1957			
4105		Brazos River Club	1,500.00	RECREATION	01/31/1984			3,400.00
4105		Brazos River Club	1,500.00	RECREATION	09/15/1989			
4105		Wesley Ray Carson	8.04	AGRICULTURE - IRRIGATION	01/31/1977			
4105		CREPE MYRTLES OF TEXAS, INC.	3.96	AGRICULTURE - IRRIGATION	01/31/1977			
4106	D	City of Cleburne	6,739.00	AGRICULTURE INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	02/09/2017			
4106		City of Cleburne	5,760.00	INDUSTRIAL MUNICIPAL/DOMESTIC	08/06/1962			25,600.00
4106		City of Cleburne	240.00	AGRICULTURE - IRRIGATION	03/29/1976			
4106		City of Cleburne		AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	08/30/2004			
4107		LOST EIGHTEEN RANCH, LLC	231.00	AGRICULTURE - IRRIGATION	12/31/1964			
4107		LOST EIGHTEEN RANCH, LLC		AGRICULTURE - IRRIGATION	03/01/2002			12.00
4108		RICHMOND, MARIAN F RICHMOND, ROBERT	20.19	AGRICULTURE - IRRIGATION	06/30/1961			
4108		DSF, Ltd.	6.82	AGRICULTURE - IRRIGATION	06/30/1961			
4108		DSF, Ltd.	5.00	INDUSTRIAL	06/30/1961			
4109		Kacir Wheeler, LLC	400.00	AGRICULTURE - IRRIGATION	02/28/1984			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4109		KOONSMAN, ERNESTINE	10.00	AGRICULTURE - IRRIGATION	05/08/1969			10.00
4110		Clay Humphries Karen Humphries	20.00	AGRICULTURE - IRRIGATION	07/31/1966			
4111		Paul C. Murphey, Jr.	6.00	AGRICULTURE - IRRIGATION	07/31/1953			15.00
4112		GREGORY, LOUIS GREGORY, VIRGINIA	12.00	AGRICULTURE - IRRIGATION	03/23/1964			14.00
4113		James Walker	43.00	AGRICULTURE - IRRIGATION	05/31/1964			140.00
4114	B	King Ranch Turfgrass, L.P.	224.37	AGRICULTURE - IRRIGATION	07/31/1955			
4114	B	Thomas Bros. Grass, LLC	75.63	AGRICULTURE - IRRIGATION	07/31/1955			
4115		H & H Feed Lot, Inc.	45.00	INDUSTRIAL	12/31/1958			127.00
4116		Marjorie Hambright	2.00	AGRICULTURE - IRRIGATION	12/31/1926			
4117		Angela Rowell Tallman Brady Allan Tallman Christopher Lee White Rebecca McLean White	1.00	AGRICULTURE - IRRIGATION	12/31/1955			
4118		Zanna H. Anderson	8.00	AGRICULTURE - IRRIGATION	12/31/1963			
4119		Alfred L. Carey Bobbie Nell Carey	5.00	AGRICULTURE - IRRIGATION	12/31/1963			5.00
4120		Nell J. Carriker Estate of Max D. Carriker	74.00	AGRICULTURE - IRRIGATION	12/31/1937			15.00
4121		Willard L Burk	263.00	AGRICULTURE - IRRIGATION	05/31/1936			26.00
4122		Estate of Max D. Carriker	60.00	AGRICULTURE - IRRIGATION	12/31/1962			22.00
4123		FREDDIE MAX STUART	17.00	AGRICULTURE - IRRIGATION	02/29/1928			12.00
4124		Cili, LLC	225.00	AGRICULTURE - IRRIGATION	06/21/1982			180.00
4124		Margaret Waldrop Brown Estate of Margaret Waldrop Alfred S. Waldrop Gideon W. Waldrop	55.00	AGRICULTURE - IRRIGATION	04/03/1926			
4126		Boyd H. Lakey	55.00	AGRICULTURE - IRRIGATION	12/31/1949			20.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4127		James Randolph Scott	120.00	AGRICULTURE - IRRIGATION	04/30/1967			
4128		City of Sweetwater	2,000.00	MUNICIPAL/DOMESTIC	10/08/1914			2,500.00
4128		CATHERINE BARBOSA FILIPE BARBOSA	102.00	AGRICULTURE - IRRIGATION	05/08/1984			
4129		Sweetwater Country Club, Incorporated	40.00	AGRICULTURE - IRRIGATION	07/06/1916			892.00
4130		City of Sweetwater	3,740.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	10/17/1927			10,000.00
4130		United States Army Corps of Engineers	5.00	RECREATION	05/08/1984			5.00
4132		Charlotte F. Reaugh Harry C. Reaugh	202.00	AGRICULTURE - IRRIGATION	12/31/1965			
4132		Big Country Baptist Assembly	10.00	AGRICULTURE - IRRIGATION	12/31/1965			
4133		Charles A. Doby	225.00	AGRICULTURE - IRRIGATION	12/31/1964			
4133		Charles A. Doby		AGRICULTURE - IRRIGATION	12/31/1964			7.00
4134		4G's Ranch Partnership	45.00	AGRICULTURE - IRRIGATION	10/06/1969			96.00
4135	A	City of Crawford	85.00	MUNICIPAL/DOMESTIC	05/15/1983			230.00
4135		Larry D. Fryar	28.00	AGRICULTURE - IRRIGATION	05/02/1966			150.00
4136		Tlc Investments, LLC.	338.00	MINING	07/22/1948			850.00
4136		Tlc Investments, LLC.	7.00	AGRICULTURE - STOCKRAISING INDUSTRIAL RECREATION	07/22/1948			
4137		Terri Lynn Thomas	54.00	AGRICULTURE - IRRIGATION	07/13/1926			
4138		KRISTY HAMPTON RONALD D. HAMPTON	2.00	AGRICULTURE - IRRIGATION	03/16/1964			
4139		City of Abilene	30,000.00	MUNICIPAL/DOMESTIC	08/03/1949			60.00
4139		City of Abilene		INDUSTRIAL	08/03/1949			
4139		City of Abilene		MUNICIPAL/DOMESTIC	08/22/1955			548.00
4139		City of Abilene		INDUSTRIAL	08/22/1955			
4139		City of Abilene		MUNICIPAL/DOMESTIC	12/08/1967			
4140		James Gray Bridwell	165.00	AGRICULTURE - IRRIGATION	12/31/1966			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4140		Joe Duncan		FLOOD CONTROL	04/10/1984			
4141		BOB J KEESEE MARY E KEESEE	63.63	AGRICULTURE - IRRIGATION	05/31/1967			
4141		Estate of Dolly Keesee	5.37	AGRICULTURE - IRRIGATION	05/31/1967			
4142		City of Abilene	1,675.00	MUNICIPAL/DOMESTIC	01/23/1918			11,868.00
4143		City of Abilene	50.00	RECREATION	12/18/1972			66.00
4144		First Choice Feeders, LP	73.00	INDUSTRIAL	12/31/1964			120.00
4145		Beverly Ann Nigliazzo John W. Nigliazzo	448.00	AGRICULTURE - IRRIGATION	05/15/1984			
4145		J.M. Alexander Ganado Company Robert Gooch Billy Jay Robert W. Morford Robert W. Morford Jr.	168.00	INDUSTRIAL	12/31/1964			150.00
4146		City of Lubbock	35,000.00	AGRICULTURE - IRRIGATION MUNICIPAL/DOMESTIC RECREATION	10/05/1981			115,937.00
4146		J. H. Taylor Gas Company	4.00	AGRICULTURE - IRRIGATION	05/31/1948			6.00
4147		Lee Arthur Presswood	14.00	AGRICULTURE - IRRIGATION	05/31/1963			
4148		Riley G. Maxwell Company	3.48	AGRICULTURE - IRRIGATION	08/31/1964			
4148		RHODES, EDWARD DUSTY	1.51	AGRICULTURE - IRRIGATION	08/31/1964			
4148		RHODES, A L	0.01	AGRICULTURE - IRRIGATION	08/31/1964			
4149		Noel W. Petre	42.00	AGRICULTURE - IRRIGATION	04/30/1963			
4150		City of Abilene	3,880.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	10/10/1927			8,500.00
4151		City of Clyde	2,500.00	AGRICULTURE - IRRIGATION INDUSTRIAL INDUSTRIAL - POWER GENERATION MINING	10/12/1928			6,500.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
				MUNICIPAL/DOMESTIC WATER QUALITY				
4152		Lytle Lake Water Control & Improvement District	360.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION RECREATION	11/21/1967			
4152		Lytle Lake Water Control & Improvement District	230.00	MUNICIPAL/DOMESTIC	06/10/1914			1,184.00
4153		City of Abilene	360.00	INDUSTRIAL	11/21/1967			
4153		City of Abilene		RECREATION	06/10/1914			62.00
4154		FLEET EQUIPMENT LEASING, L.P.		INDUSTRIAL INDUSTRIAL - POWER GENERATION	05/12/1921			10.00
4155		Raymond McNutt	6.00	AGRICULTURE - IRRIGATION	12/31/1959			
4156		Lura C. Robbins Roy Elton Robbins	5.00	AGRICULTURE - IRRIGATION	05/31/1964			
4157		Joseph Conner Hardesty	39.05	AGRICULTURE - IRRIGATION	12/31/1967			
4157		H. C. Welch	22.69	AGRICULTURE - IRRIGATION	12/31/1967			
4157		Roger Welch	8.26	AGRICULTURE - IRRIGATION	12/31/1967			
4158		Roy J. Griffith	75.00	AGRICULTURE - IRRIGATION	11/30/1944			175.00
4159		MB Rentals, LLC	26.01	AGRICULTURE - IRRIGATION	12/31/1938			80.00
4159		J. C. Griffith	15.99	AGRICULTURE - IRRIGATION	12/31/1938			
4160		Griffith Lake Estates, LLC		RECREATION	10/15/1974			94.00
4161		City of Abilene	25,690.00	MUNICIPAL/DOMESTIC	03/25/1937			73,960.00
4161		City of Abilene	24,640.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	03/25/1937			
4161		City of Abilene	4,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION	03/25/1937			
4161		City of Abilene	1,000.00	AGRICULTURE - IRRIGATION	03/25/1937			
4162		Berle J. Ice	179.00	AGRICULTURE - IRRIGATION	12/31/1959			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4163		STAMM, MICHAEL K	22.84	AGRICULTURE - IRRIGATION	12/31/1959			
4163		Lacey Ann Cook Patricia A. Cook	21.16	AGRICULTURE - IRRIGATION	12/31/1959			
4164		Imogene Virginia Montgomery J. N. Montgomery	32.00	AGRICULTURE - IRRIGATION	12/31/1966			
4165		City of Abilene	3,000.00	MUNICIPAL/DOMESTIC	09/03/1954			
4166		MARGRET JONES Samuel W. Jones	120.00	AGRICULTURE - IRRIGATION	07/31/1984			
4166		Linda Kay Smith Caton Clyde H. Emmons Judy Smith Rutledge Irene M. Smith	32.00	AGRICULTURE - IRRIGATION	12/31/1965			
4167		Geochemical Surveys, Inc.	40.00	MINING	08/28/1967			6.43
4168		Zohn Milam	15.00	AGRICULTURE - IRRIGATION	05/31/1956			
4169	C	El Prado Stone, LP	55.00	MINING	10/19/1970			0.10
4169	C	El Prado Stone, LP	12.00	AGRICULTURE - IRRIGATION	10/19/1970			
4170		J.M. ALEXANDER RANCH COMPANY, LTD.	200.00	AGRICULTURE - IRRIGATION	07/31/1962			
4171		J.M. ALEXANDER RANCH COMPANY, LTD.	310.00	AGRICULTURE - IRRIGATION	12/31/1918			
4171		Baltgem Development Corporation BARGET DEVELOPMENT CORPORATION DELMAR PROPERTIES JOPAT BUILDING CORPORATION KARJOY DEVELOPMENT CORPORATION MAXLAND DEVELOPMENT CORPORATION NATURAL BRIDGE DEVELOPMENT CORPORATION PAJIA REALTY CORPORATION THIRD CREEK, L.L.C.		DOMESTIC AND LIVESTOCK RECREATION	08/14/1984			19.00
4172		Frazier Ranches, L.P.	92.00	AGRICULTURE - IRRIGATION	07/31/1963			
4173		Frazier Ranches, L.P.	40.00	AGRICULTURE - IRRIGATION	07/31/1965			
4174		Adron Staley		RECREATION	10/02/1918			375.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4174		LOUISE BRISTOW		RECREATION	10/02/1918			375.00
4174		The Family Trust of Wayne L. Frazier and Sandra J. Frazier C. G. Vickers		RECREATION	10/02/1918			375.00
4175		H.R. Stasney & Sons, Ltd.	84.00	MUNICIPAL/DOMESTIC	07/01/1926			
4175		H.R. Stasney & Sons, Ltd.		MINING MUNICIPAL/DOMESTIC	11/23/1934			108.00
4176		Kirk Merrit Lien Lea Merritt	120.00	AGRICULTURE - IRRIGATION	12/31/1962			1.00
4177		James Ray Griffith W. B. Griffith Norma Jean Berry Brenda Reel Linda Sanders	95.00	AGRICULTURE - IRRIGATION	12/31/1955			18.00
4178		GOFF, EMILEE G Dan Riley Griffith Marilyn Nell Griffith Jo Ann Poyer THOMPSON, WANDA	78.00	AGRICULTURE - IRRIGATION	12/31/1955			30.00
4179		City of Stamford	10,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC	06/08/1949			59,810.00
4179		City of Stamford		MUNICIPAL/DOMESTIC	06/08/1949			190.00
4179		City of Stamford		INDUSTRIAL MUNICIPAL/DOMESTIC	04/04/2000			705.00
4180		City of Hamlin	300.00	MUNICIPAL/DOMESTIC	03/03/1939			1,900.00
4181		City of Anson	542.00	MUNICIPAL/DOMESTIC	04/18/1950			2,500.00
4182		City of Anson		RECREATION	03/03/1975			560.00
4183		Marshall D. O'Dell	150.00	AGRICULTURE - IRRIGATION	05/08/1978			7.00
4184		Haskell County Country Club	7.00	AGRICULTURE - IRRIGATION RECREATION	07/25/1977			75.00
4185		Woodward Properties, Ltd.	10.00	AGRICULTURE - IRRIGATION	07/14/1975			
4185		Woodward Properties, Ltd.		AGRICULTURE - IRRIGATION	07/14/1975			10.00
4186		Sally Jo Pope J Cheryl Taylor TAYLOR, RAYMOND C	43.00	AGRICULTURE - IRRIGATION	09/16/1966			60.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4187		Fort Davis Ranch, LP	300.00	AGRICULTURE - IRRIGATION	12/31/1952			
4188		Carroll Scott Harris	40.00	AGRICULTURE - IRRIGATION	12/31/1914			
4189		Hubbard Creek Ranch, LLC	69.00	AGRICULTURE - IRRIGATION	08/31/1958			
4190		JAMES ISBELL	70.00	AGRICULTURE - IRRIGATION	08/31/1958			
4191		Killion Investments, Inc.	121.85	AGRICULTURE - IRRIGATION	05/31/1964			
4191		The Powell Family Irrevocable Trust	73.15	AGRICULTURE - IRRIGATION	05/31/1964			
4192		PHT Ranch LLC	30.00	AGRICULTURE - IRRIGATION	12/31/1915			
4193		Monty Chris Cleveland		DOMESTIC AND LIVESTOCK	04/13/1920			165.00
4194		Stephens Regional SUD	60.00	MUNICIPAL/DOMESTIC	03/14/1963			
4194		City of Woodson		MUNICIPAL/DOMESTIC	03/14/1963			1,003.00
4195		ANTHONY GRAY THE GRAY JOINT REVOCABLE LIVING TRUST	22.00	AGRICULTURE - IRRIGATION	06/30/1962			
4196		ICBT Brazos Bend, LLC	18.00	AGRICULTURE - IRRIGATION	05/20/1967			
4197		Michael Jack Sullivan	20.00	AGRICULTURE - IRRIGATION	12/31/1955			
4198		Monty Chris Cleveland		DOMESTIC AND LIVESTOCK	02/16/1920			430.00
4199		WOODWARD, OWEN D	98.00	AGRICULTURE - IRRIGATION	12/31/1924			3.00
4200		Charles Ezzell Linda Ezzell		DOMESTIC AND LIVESTOCK RECREATION	11/15/1976			200.00
4201		City of Baird		DOMESTIC AND LIVESTOCK	06/19/1914			390.00
4202		City of Baird	550.00	MUNICIPAL/DOMESTIC	07/06/1949			2,070.00
4203		Patricia J Dyer Testamentary Trust FBO A E Dyer III Patricia J. Dyer Testamentary Trust FBO Cathlene Dyer Haley Patricia J Dyer Testamentary Trust FBO Cynthia Dyer Brookey	24.00	AGRICULTURE - IRRIGATION	07/31/1963			7.50

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		Patricia J Dyer Testamentary Trust FBO John Louis Dyer						
4204		SEA Stroope, LLC	9.34	AGRICULTURE - IRRIGATION	07/31/1963			
4204		Martha A. George	6.66	AGRICULTURE - IRRIGATION	07/31/1963			
4205		Genea Menke Williams	50.00	AGRICULTURE - IRRIGATION	12/31/1946			
4206		Jeffery Ted Posey	40.00	AGRICULTURE - IRRIGATION	09/08/1927			13.00
4207		City of Moran	90.00	MUNICIPAL/DOMESTIC	04/02/1923			181.00
4208		City of Albany	600.00	MUNICIPAL/DOMESTIC	03/25/1941			2,600.00
4209		DAMSON 1981-82 OIL AND GAS INCOME FUND - SERIES 1982-1 DAMSON 1981-82 OIL AND GAS INCOME FUND - SERIES 1982-2 DAMSON 1982-83 OIL AND GAS INCOME FUND - SERIES 1982-3 DAMSON CONSOLIDATED ENERGY INCOME I Damson Institutional Series 82E-1 Corporation Damson Oil Corporation	50.00	INDUSTRIAL MINING	03/03/1925			773.00
4210		GREEN, JAMES R	35.00	AGRICULTURE - IRRIGATION	05/31/1965			72.00
4211		City of Cisco	1,971.00	MUNICIPAL/DOMESTIC	04/16/1920			9,363.00
4211		City of Cisco	56.00	INDUSTRIAL	09/05/1978			
4211		City of Cisco		MUNICIPAL/DOMESTIC	05/02/1929			35,637.00
4212		City of Cisco	1,000.00	MUNICIPAL/DOMESTIC	11/08/1954			110.00
4212		Carl Moody Lynda G. Moody W. C. Moody Sr.	300.00	AGRICULTURE - IRRIGATION	01/03/1985			
4213		West Central Texas Municipal Water District	56,000.00	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK INDUSTRIAL MINING MUNICIPAL/DOMESTIC	05/28/1957			317,750.00
4214		City Of Breckenridge	2,100.00	MUNICIPAL/DOMESTIC	04/26/1946			11,400.00
4215		TC Fambro and Sons	6.00	AGRICULTURE - IRRIGATION	07/31/1947			7.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4216		Sara Robertson Satterwhite	30.00	AGRICULTURE - IRRIGATION	04/30/1966			
4217		Swanson Muleshoe Ranch Ltd.	218.00	MINING RECREATION	04/28/1975			
4217		Mya Swanson Ebeling Family Limited Partnership		RECREATION	04/28/1975			375.00
4218		Margaret Diane Connell Non-exempt Trust TEXAS SUNFLOWER, LTD.	172.00	AGRICULTURE - IRRIGATION	11/27/1984			
4218		Jack T. Robertson, Jr.	32.00	AGRICULTURE - IRRIGATION	06/30/1955			
4219		Ella Pearl Robertson	22.00	AGRICULTURE - IRRIGATION	12/31/1945			
4220		Ella Pearl Robertson	39.00	AGRICULTURE - IRRIGATION	04/30/1964			
4221		Ella Pearl Robertson	42.00	AGRICULTURE - IRRIGATION	08/31/1949			
4222		Ella Pearl Robertson	45.00	AGRICULTURE - IRRIGATION	04/30/1961			
4223		Breckenridge Gasoline Company	97.00	INDUSTRIAL MINING	06/01/1926			
4224		H & S Livestock, LLC		RECREATION	03/16/1920			454.00
4225		E. E. Riley	30.00	AGRICULTURE - IRRIGATION	12/31/1954			
4226	A	Kerwin B. Stephens	628.00	AGRICULTURE - IRRIGATION	06/30/1961			
4227		C. Baldwin Jr.	181.00	AGRICULTURE - IRRIGATION	08/31/1946			
4232	C	Twinwood Corporation N.V. Twinwood (U.S.), Inc.		RECREATION	04/11/1986			7.10
4232	C	Twinwood Corporation N.V. Twinwood (U.S.), Inc.	884.00	AGRICULTURE - IRRIGATION	04/09/1985			1,481.70
4258		City of Cleburne	720.00	INDUSTRIAL MUNICIPAL/DOMESTIC	05/21/1985			552.00
4266		City of Abilene	4,330.00	AGRICULTURE - IRRIGATION	07/02/1985			1,003.60
4266		City of Abilene		AGRICULTURE - IRRIGATION	07/02/1985			
4279		Hilliard Ranches, Inc.	485.00	AGRICULTURE - IRRIGATION	07/09/1985			38.00
4279		Hilliard Ranches, Inc.	121.30	AGRICULTURE - IRRIGATION	07/09/1985			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4279		CLD Group, LP	73.00	AGRICULTURE - IRRIGATION	07/09/1985			
4279		Warren's Turf Nursery, Inc.	42.00	AGRICULTURE - IRRIGATION	07/09/1985			
4279		CLD Group, LP	18.30	AGRICULTURE - IRRIGATION	07/09/1985			
4279		Warren's Turf Nursery, Inc.	10.40	AGRICULTURE - IRRIGATION	07/09/1985			
4280		ACME BRICK COMPANY	10.00	INDUSTRIAL	08/06/1985			
4296		Horizon Resources L.P.	120.00	AGRICULTURE - IRRIGATION	08/06/1985			
4315		Clifford N. Auten	30.00	AGRICULTURE - IRRIGATION	12/31/1960			
4316		BOWERS, B W BOWERS, SARA J	75.00	AGRICULTURE - IRRIGATION	12/31/1961			
4317		Ellen Krempin Thomas	243.00	AGRICULTURE - IRRIGATION MINING	12/31/1963			
4318	C	City of Waco	2,153.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	12/31/1921			288.00
4318		CHS FARMS, LTD.	497.00	AGRICULTURE - IRRIGATION	12/31/1921			
4318	D	Amy S. Neuhaus 1994 Trust Brent A. Neuhaus 1994 Trust Ryan S. Neuhaus 1994 Trust	150.00	AGRICULTURE - IRRIGATION MINING	12/31/1921			
4318		LAKEVIEW RECREATION ASSOCIATION, INC.	20.00	AGRICULTURE - IRRIGATION	12/31/1921			8.54
4319		Wilfong Birch	34.00	AGRICULTURE - IRRIGATION	03/31/1962			
4320		WHITLOW, LORI D WHITLOW, WARREN D	84.00	AGRICULTURE - IRRIGATION	07/31/1967			
4321		David Ballew	337.00	AGRICULTURE - IRRIGATION	08/31/1963			
4322		Tullos Farms, LLC	175.00	AGRICULTURE - IRRIGATION	06/30/1964			
4323		Kenneth Gage Burnette	155.45	AGRICULTURE - IRRIGATION	06/30/1956			
4323		Tullos Farms, LLC	17.55	AGRICULTURE - IRRIGATION	06/30/1956			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4324		Charles L. Harless Katherine J. Harless	305.00	AGRICULTURE - IRRIGATION	06/30/1965			12.00
4325		MCFARLAND, ALLAN R	48.00	AGRICULTURE - IRRIGATION	06/30/1967			
4326		Michelle Johnson Russell Johnson Larry D. Sparks Theresa B. Sparks	6.00	AGRICULTURE - IRRIGATION	12/31/1959			
4327		Dan Weldon Williams	4.00	AGRICULTURE - IRRIGATION	12/31/1959			
4328		George L. Moore	40.00	AGRICULTURE - IRRIGATION	07/01/1964			
4329		Jimmy Lewis Gifford	781.00	AGRICULTURE - IRRIGATION	12/31/1964			
4329		River Haven 2, LLC	75.00	AGRICULTURE - IRRIGATION	12/31/1964			
4329		Thomas Bros. Grass, Ltd.	74.00	INDUSTRIAL	12/31/1964			
4330		Elsie Mae Reddell REDDELL, KARL LEE	16.00	AGRICULTURE - IRRIGATION	12/31/1940			
4331		Cathy A. Reddell Terry F. Reddell	39.26	AGRICULTURE - IRRIGATION	12/31/1940			
4331		Elsie Mae Reddell REDDELL, KARL LEE	4.74	AGRICULTURE - IRRIGATION	12/31/1940			
4332		Kathy Reddell Terry F. Reddell	32.00	AGRICULTURE - IRRIGATION	12/31/1940			
4333		HILLSBORO COUNTRY CLUB	8.00	AGRICULTURE - IRRIGATION	06/14/1976			18.00
4334		Joe R. Cunningham Mary Ann Cunningham	1.00	AGRICULTURE - IRRIGATION	08/11/1964			50.00
4335		URBANOVSKY FAMILY TRUSTS	40.00	AGRICULTURE - IRRIGATION	07/31/1964			
4336		Faye Romine	55.00	AGRICULTURE - IRRIGATION	06/30/1953			
4336		Kaye Boyd	55.00	AGRICULTURE - IRRIGATION	06/30/1953			
4337		VANDERPOOL MANAGEMENT, L.P.	58.00	AGRICULTURE - IRRIGATION	06/30/1966			
4338		DRR RAILS, LLC	130.00	AGRICULTURE - IRRIGATION	05/23/1963			
4339		DRR RAILS, LLC	100.00	AGRICULTURE - IRRIGATION	05/23/1963			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4340		City of Waco	5,600.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC	06/29/1914			
4340		City of Waco		RECREATION	01/08/1968			3,537.00
4342		Tradinghouse Power Company LLC	15,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	09/16/1966			
4342		Tradinghouse Power Company LLC	12,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	08/21/1926			37,800.00
4343		Oak Lake Club Inc		RECREATION	02/12/1973			100.00
4344		TURNER GROVES LIMITED PARTNERSHIP	511.11	AGRICULTURE - IRRIGATION	01/26/1929			
4344		TURNER GROVES LIMITED PARTNERSHIP	309.76	AGRICULTURE - IRRIGATION	03/16/1918			
4344		DRR FAMILY PROPERTIES, LP	125.01	AGRICULTURE - IRRIGATION	01/26/1929		125.01	
4344		DRR FAMILY PROPERTIES, LP	75.77	AGRICULTURE - IRRIGATION	03/16/1918			
4344		LOLA ROBINSON	23.88	AGRICULTURE - IRRIGATION	01/26/1929			
4344		LOLA ROBINSON	14.47	AGRICULTURE - IRRIGATION	03/16/1918			
4345	A	BASF Corporation	10,000.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	03/06/1951			8,500.00
4346	C	Marlin Sod Farm, LLC	200.00	AGRICULTURE - IRRIGATION	08/28/1925			
4347		Vance Dunnam Jr	12.00	AGRICULTURE - IRRIGATION	11/02/1970			200.00
4348		Joe Ray Hatter Sr.	70.00	AGRICULTURE - IRRIGATION	01/06/1965			110.00
4349		Bar V Holdings LLC	194.27	AGRICULTURE - IRRIGATION	01/23/1978			204.00
4349		RDS Land Co., LLC	4.73	AGRICULTURE - IRRIGATION	01/23/1978			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4350		John Peeler Estes Estate Trust John Henry Snapp Katherine Carroll Snapp Elizabeth Estes Taylor	20.00	AGRICULTURE - IRRIGATION	05/24/1966			44.00
4351		Mont Hamm	160.00	AGRICULTURE - IRRIGATION	05/02/1955			80.00
4352		Goelzer Cattle Company		RECREATION	01/25/1965			569.00
4353		Dennis Birkes Jerry Birkes Wallace Birkes Lorene Carter Elveta Smith Melba Linam Wilson	40.00	AGRICULTURE - IRRIGATION	06/21/1965			200.00
4354		Jean Epperson	50.00	AGRICULTURE - IRRIGATION	06/21/1965			200.00
4355		City of Marlin	4,000.00	MUNICIPAL/DOMESTIC	04/09/1948			3,135.00
4355		City of Marlin	2,000.00	MUNICIPAL/DOMESTIC	11/27/1956			
4355		City of Marlin	2,000.00	INDUSTRIAL	11/27/1956			
4355		City of Marlin		MUNICIPAL/DOMESTIC RECREATION	11/01/1976			791.00
4355		City of Marlin		RECREATION	12/31/1990			6,560.00
4356		GRIFFITH, MELINDA GRIFFITH, STEPHEN	84.00	AGRICULTURE - IRRIGATION	02/07/1967			
4356		GRIFFITH, MELINDA GRIFFITH, STEPHEN		AGRICULTURE RECREATION	02/07/1967			512.00
4357		Forest Glen Inc		RECREATION	02/11/1965			195.00
4358		Amarillo National Bank David Q Isaacs, Jr. DAVID Q ISAACS, SR John C. Issacs William C Isaacs	991.00	AGRICULTURE - IRRIGATION	05/03/1982			
4359		Amarillo National Bank David Q Isaacs, Jr. DAVID Q ISAACS, SR John C. Issacs William C Isaacs	496.00	AGRICULTURE - IRRIGATION	10/22/1925			
4359		Amarillo National Bank David Q Isaacs, Jr. DAVID Q ISAACS, SR John C. Issacs William C Isaacs	495.00	AGRICULTURE - IRRIGATION	05/03/1982			
4360		City of Rosebud	224.00	MUNICIPAL/DOMESTIC	07/15/1974			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4360		City of Rosebud	115.00	MUNICIPAL/DOMESTIC	11/28/1961			408.00
4361		Eliot Family Limited Partnership	184.00	AGRICULTURE - IRRIGATION	12/31/1961			
4362		STEELE BROOK MINERAL & ROYALTIES LIMITED	306.41	AGRICULTURE - IRRIGATION	06/30/1959			
4362		CHAPALINE LOMA LIMITED	56.59	AGRICULTURE - IRRIGATION	06/30/1959			
4363		Joe Reistino Estate	1,068.00	AGRICULTURE - IRRIGATION	09/19/1983			
4363		Joe Reistino Estate	432.00	AGRICULTURE - IRRIGATION	12/31/1951			
4364		UW BRAZOS VALLEY FARM LLC	724.00	AGRICULTURE - IRRIGATION	12/31/1958			6.00
4365		Jane Anderson Manterola	976.00	AGRICULTURE - IRRIGATION	12/31/1953			
4366	B	JAMES COOPER BRIEN	275.00	AGRICULTURE - IRRIGATION	06/30/1957			
4366	B	JAMES COOPER BRIEN	125.00	AGRICULTURE - IRRIGATION	10/31/1983			
4367		UW BRAZOS VALLEY FARM LLC	145.00	AGRICULTURE - IRRIGATION	12/31/1959			
4368		HOLDEN, GLORIA	76.00	AGRICULTURE - IRRIGATION	08/31/1956			
4369		Gene W. Bonorden	4.00	AGRICULTURE - IRRIGATION	12/31/1965			4.00
4370		Cinco H Family Holdings, LP DTB Investments, L.P.	297.00	AGRICULTURE - IRRIGATION	12/31/1954			
4370		Cinco H Family Holdings, LP DTB Investments, L.P.		AGRICULTURE - IRRIGATION	12/31/1955			15.00
4371		Destefano 2008 Descendants Trust	410.00	AGRICULTURE - IRRIGATION	07/31/1956			
4371		Destefano 2008 Descendants Trust	290.00	AGRICULTURE - IRRIGATION	02/07/1983			
4372		Forbin Investments, N. V., Inc.	730.00	AGRICULTURE - IRRIGATION	03/09/1981			120.00
4373		Drayton McLane Jr.		RECREATION	02/24/1975			177.00
4373		Drayton McLane Jr.		RECREATION	02/24/1975			156.00
4374		Lake Woodrow Incorporated		RECREATION	06/26/1972			166.00
4375		Major Oak Power, LLC	2.08	AGRICULTURE - IRRIGATION	12/31/1963			
4375		KEMPENSKI, DIANE KEMPENSKI, JOHN	1.85	AGRICULTURE - IRRIGATION	12/31/1963			10.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
4375		KEMPENSKI, MICHAEL J	0.07	AGRICULTURE - IRRIGATION	12/31/1963			
4375		KEMPENSKI, DIANE KEMPENSKI, JOHN Major Oak Power, LLC		AGRICULTURE - IRRIGATION	12/31/1963			10.00
4376		TSD Family Partnership, L.P.	73.47	AGRICULTURE - IRRIGATION	08/31/1963			
4376		Elicia Rhea Hogan Joseph Byron Hogan	0.53	AGRICULTURE - IRRIGATION	08/31/1963			
4377		Bernadette M. Wohleb	3.45	AGRICULTURE - IRRIGATION	12/31/1958			
4377		Dolores A. Mustachia	3.45	AGRICULTURE - IRRIGATION	12/31/1958			
4377		Ellen R. Johnson	3.45	AGRICULTURE - IRRIGATION	12/31/1958			
4377		Gerald F. Gassen	3.45	AGRICULTURE - IRRIGATION	12/31/1958			48.00
4377		Mary R. Stegall	3.45	AGRICULTURE - IRRIGATION	12/31/1958			
4377		Kevin M. Gassen	2.74	AGRICULTURE - IRRIGATION	12/31/1958			
4378		Robert Benbow		RECREATION	06/27/1977			166.00
4767		James Ira Duff	60.00	AGRICULTURE - IRRIGATION	12/31/1961			
5000	B	City of Mart	500.00	MUNICIPAL/DOMESTIC RECREATION	09/03/1985			1,640.00
5028		O'Grady Six O Ranch and Cattle Company, L.C.		RECREATION	11/08/1985			895.00
5053		3S Real Estate Investments, LLC		DOMESTIC AND LIVESTOCK GAME PRESERVES MINING PUBLIC PARKS RECREATION	04/03/1986			1,420.00
5076		A & H DEVELOPERS, INC.	25.00	AGRICULTURE - IRRIGATION	07/18/1986			
5077		Jo Neta Scarmardo SCARMARDO, PETE A	600.00	AGRICULTURE - IRRIGATION	07/21/1986			
5081		ANIMATE HABITAT, LTD.		RECREATION	08/06/1986			106.00
5085		City of Robinson	13,100.00	MUNICIPAL/DOMESTIC	08/14/1986			8,037.00
5094		City of Waco	20,081.00	MUNICIPAL/DOMESTIC	09/12/1986			87,962.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5094		City of Waco	688.00	MUNICIPAL/DOMESTIC RECREATION	01/21/1988			
5110		Fort Bend County Levee Improvement District 11		RECREATION	11/18/1986			354.00
5115		Fort Bend County Drainage District		FLOOD CONTROL	12/18/1986			
5118		SOPHIA P. CANO MARK H. COLADONATO Killeen Savings & Loan		RECREATION	01/12/1987			2.81
5132		3S Real Estate Investments, LLC		DOMESTIC AND LIVESTOCK GAME PRESERVES INDUSTRIAL MINING PUBLIC PARKS RECREATION	05/13/1987			2,157.00
5148		Major Oak Power, LLC	458.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	07/23/1987			178.00
5155	A	Brazos River Authority	230,750.00	AGRICULTURE - IRRIGATION HYDROELECTRIC INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION WATER QUALITY	04/06/1938			724,739.00
5156	B	Brazos River Authority	64,712.00	AGRICULTURE - IRRIGATION INDUSTRIAL INDUSTRIAL - POWER GENERATION MINING MUNICIPAL/DOMESTIC RECREATION WATER QUALITY	02/13/1964			155,000.00
5157	A	Brazos River Authority	18,336.00	INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	08/30/1982			50,000.00
5158	A	Brazos River Authority	13,896.00	INDUSTRIAL MINING	10/25/1976			52,400.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
				MUNICIPAL/DOMESTIC RECREATION				
5159	A	Brazos River Authority	19,658.00	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	12/16/1963			59,400.00
5160	A	Brazos River Authority	100,257.00	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	12/16/1963			457,600.00
5160		Circle X South Cooley, LLC	480.00	AGRICULTURE - IRRIGATION	07/27/1999			480.00
5160		Circle X South Cooley, LLC	456.00	AGRICULTURE - IRRIGATION	07/27/1999			
5160		Circle X North Cooley, LLC Circle X South Cooley, LLC		DOMESTIC AND LIVESTOCK	10/02/1987			923.20
5161	A	Brazos River Authority	67,768.00	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	12/16/1963			235,700.00
5161		CARROLL, MARY L CARROLL, WILLIAM D	54.00	AGRICULTURE - IRRIGATION	11/13/1987			150.40
5162	A	Brazos River Authority	13,610.00	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC	02/12/1968			
5162		City of Aspermont	8.00	AGRICULTURE - IRRIGATION	11/12/1987			1,196.00
5162		Brazos River Authority		RECREATION	02/12/1968			37,100.00
5163	A	Brazos River Authority	19,840.00	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	02/12/1968			65,500.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5164	A	Brazos River Authority	48,000.00	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	12/16/1963			160,110.00
5164		Adtin, LLC	90.00	MUNICIPAL/DOMESTIC	12/11/1987			215.00
5165	A	Brazos River Authority	65,074.00	AGRICULTURE - IRRIGATION INDUSTRIAL INDUSTRIAL - POWER GENERATION MINING MUNICIPAL/DOMESTIC RECREATION WATER QUALITY	05/06/1974			225,400.00
5166		Brazos River Authority	450,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION				
5166		Brazos River Authority	100,000.00	MUNICIPAL/DOMESTIC				
5166		Brazos River Authority	100,000.00	AGRICULTURE - IRRIGATION				
5167		Brazos River Authority		INDUSTRIAL MUNICIPAL/DOMESTIC				
5168		Gulf Coast Water Authority	99,932.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	01/15/1926			
5168		Gulf Coast Water Authority		AGRICULTURE - IRRIGATION	03/17/1947			7,308.00
5168		Gulf Coast Water Authority		INDUSTRIAL MUNICIPAL/DOMESTIC	04/29/1999			65.00
5171		Gulf Coast Water Authority	75,000.00	INDUSTRIAL MUNICIPAL/DOMESTIC	02/01/1939			
5171		Gulf Coast Water Authority	50,000.00	AGRICULTURE - IRRIGATION MINING	12/12/1950			
5173		Fort Bend County Levee Improvement District 11		FLOOD CONTROL	03/16/1988			
5188		City of Taylor		RECREATION	07/20/1988			11.62
5199		Fort Bend Flood Control Water Supply Corporation		FLOOD CONTROL	10/25/1988			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5226		City of Temple		RECREATION	03/28/1989			3.00
5227		Five Wells Ranch Company		DOMESTIC AND LIVESTOCK	03/30/1989			295.00
5255		DUKES, GLORIA JEAN		DOMESTIC AND LIVESTOCK	08/28/1989			
5268	A	City of Bryan	161,300.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION RECREATION WATER QUALITY	05/30/1972		850.00	15,227.00
5269		Betty Jean Lawrence R.O. Lawrence III	716.73	AGRICULTURE - IRRIGATION	01/30/1978			
5269		Kathryn D. Zumwalt Willard Harvey Zumwalt	180.45	AGRICULTURE - IRRIGATION	01/30/1978			
5269		METLIFE INSURANCE COMPANY OF CONNECTICUT	37.82	AGRICULTURE - IRRIGATION	01/30/1978			
5269		METLIFE INSURANCE COMPANY OF CONNECTICUT		AGRICULTURE - IRRIGATION	01/02/1979			
5270		Leisure Lakes, Incorporated		RECREATION	06/01/1976			175.00
5271		Texas A & M University	700.00	AGRICULTURE - IRRIGATION	09/21/1970			
5271		Texas A & M University	500.00	AGRICULTURE - IRRIGATION	05/11/1954			
5271		Texas A & M University	420.00	AGRICULTURE INDUSTRIAL	09/21/1970			
5271		Texas A & M University		AGRICULTURE INDUSTRIAL	09/21/1970			64.00
5272		SLR Property I, LP	14,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	12/12/1951			15,650.00
5272	A	SLR Property I, LP		INDUSTRIAL				
5273		Rockdale Country Club	1.00	AGRICULTURE - IRRIGATION	10/11/1977			2.00
5274		John Mekolik	18.00	AGRICULTURE - IRRIGATION	09/23/1974			18.00
5274		Ann McPhail Mike L. Mcphail		DOMESTIC AND LIVESTOCK	12/13/1989			40.00
5275		CHAPMAN, KAREN KIM KIPP, LUDWIG M JR	56.31	AGRICULTURE - AQUACULTURE AGRICULTURE - IRRIGATION	07/28/1969			95.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5275		CHAPMAN, KAREN KIM	1.69	AGRICULTURE - IRRIGATION	07/28/1969			
5276		SPRANKLE, GEORGE W	2.25	AGRICULTURE - IRRIGATION	06/26/1972			16.00
5277		William G. Bredthauer PAM CAMPBELL BECKY HALL DONNA WINKELMANN HEATH WINKELMANN VANCE WINKELMANN	20.00	AGRICULTURE - IRRIGATION	06/30/1959			101.00
5279		BIRCH CREEK FOREST PROPERTIES, INC.		RECREATION	12/02/1974			15.00
5280		Don Steinbach	20.00	AGRICULTURE - AQUACULTURE INDUSTRIAL	06/01/1981			4.00
5281		BOWERS LAKE LIMITED PARTNERSHIP		RECREATION	03/03/1980			60.00
5282		Citation 1994 Investment Limited Partnership	235.00	MINING	02/02/1990			
5282		Russell F. Wiggins		RECREATION	11/09/1981			675.00
5283		Beaver Creek Developers		RECREATION	02/03/1975			113.00
5284		Robert K. Hutchings Sealy Hutchings	30.00	AGRICULTURE - IRRIGATION	01/09/1967			72.00
5285		TERRELL FAMILY L.P.	394.72	AGRICULTURE - IRRIGATION	12/20/1982			
5285		James E. Cobb	185.34	AGRICULTURE - IRRIGATION	12/20/1982			
5285		Kathleen Terrell	171.94	AGRICULTURE - IRRIGATION	12/20/1982			
5286		FREDE, CHARLES MOORE	397.39	AGRICULTURE - IRRIGATION	12/20/1982			
5286		FREDE, CHARLES MOORE	218.00	AGRICULTURE - IRRIGATION	12/31/1956			
5286		FREDE, CHARLES MOORE	127.55	AGRICULTURE - IRRIGATION	12/20/1982			
5286		The Estate of Joyce Ann Moore Frede	66.60	AGRICULTURE - IRRIGATION	12/20/1982			
5286		The Estate of Joyce Ann Moore Frede	57.92	AGRICULTURE - IRRIGATION	12/20/1982			
5286		BALDOBINO, JANE BALDOBINO, WILLIE	53.51	AGRICULTURE - IRRIGATION	12/20/1982			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5286		BALDOBINO, JANE BALDOBINO, WILLIE	46.53	AGRICULTURE - IRRIGATION	12/20/1982			
5287		Bi-Stone Municipal Water Supply District	2,887.00	MUNICIPAL/DOMESTIC	04/15/1957			9,600.00
5287		Bi-Stone Municipal Water Supply District	65.00	INDUSTRIAL	04/15/1957			
5288		Texas Parks And Wildlife Department	6.00	AGRICULTURE - IRRIGATION RECREATION	01/18/1939			3,100.00
5289		City of Groesbeck	2,500.00	MUNICIPAL/DOMESTIC	06/13/1921			150.00
5290		Texas Department of Criminal Justice	598.00	AGRICULTURE - IRRIGATION	04/03/1990			277.00
5290		Texas Department of Criminal Justice	250.00	AGRICULTURE - IRRIGATION	04/03/1990			30.00
5290		Ernie Luna Paul Luna	8.00	AGRICULTURE - IRRIGATION	12/04/1972			108.00
5291		City of Teague	605.00	MUNICIPAL/DOMESTIC	08/14/1952			1,160.00
5292		City of Teague	24.00	MUNICIPAL/DOMESTIC	09/10/1985			
5292		City of Teague	5.00	MUNICIPAL/DOMESTIC	01/06/1975			
5293		Teague Hunting & Fishing Club, Inc.		RECREATION	01/06/1975			750.00
5294		D. G. Brown		RECREATION	12/31/1954			150.00
5294		D. G. Brown		RECREATION	07/10/1984			36.80
5295		CARR, CHARLES J		RECREATION	03/29/1976			285.00
5297		Circle X Camp Cooley, Ltd.		RECREATION	04/03/1972			420.00
5298		Texas Utilities Electric Company, Inc.	1,378,000.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	07/01/1974		13,200.00	30,319.00
5299		Don Aiken R. R. Bench H.C. Cash James Dennison C. H. Flanagan R. D. Gunnells James Dennison Et Al Twinell Johnson T.G. Morris W. J. Stricklin Eric W. Wiles		RECREATION	08/30/1976			159.00
5300		Bonnie Pate David Pate		RECREATION	04/11/1955			290.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5301		Camp Creek Water Company		AGRICULTURE WILDLIFE MANAGEMENT GAME PRESERVES RECREATION	06/14/1948			8,400.00
5302		Hilltop Lakes Resort City		RECREATION	08/25/1969			976.00
5302		Hilltop Lakes Resort City		RECREATION	05/28/1974			465.00
5303		City of Normangee		RECREATION	02/03/1975			360.00
5304		SRG LAKE PROPERTIES LLP		RECREATION	10/12/1976			210.00
5305		SMITH, JOHN E		RECREATION	01/17/1977			272.00
5306		Selected Lands Ltd. No. 18		RECREATION	04/28/1975			216.00
5307	B	Gibbons Tract 1, LP	3,600.00	AGRICULTURE INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC RECREATION	03/09/1989			
5307	B	Gibbons Tract 1, LP	2,400.00	AGRICULTURE INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC RECREATION	12/15/1980			17.00
5308		The 1980 Phillips Group, LLC	12.00	AGRICULTURE - IRRIGATION RECREATION	09/27/1976			12.00
5309		City of Bryan		RECREATION	01/06/1975			73.00
5310		Carter Lake Home Owners Corporation		RECREATION	01/06/1969			481.00
5311	B	Gibbons Tract 1, LP	9,740.00	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC RECREATION	02/22/1977		9,740.00	32,084.00
5312		3S Real Estate Investments, LLC	200.00	DOMESTIC AND LIVESTOCK GAME PRESERVES INDUSTRIAL MINING	05/24/1982			91.90

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
				PUBLIC PARKS RECREATION				
5313		Texas Municipal Power Agency		RECREATION	08/09/1971			519.00
5314		Woodlake Preservation Association, Inc.		RECREATION	10/21/1974			230.00
5315		Navasota Fishing Club Inc		RECREATION	02/14/1972			170.00
5316		Chappell Hills Inc.		RECREATION	04/07/1980			56.00
5317		Rolling Hills Property Owners		RECREATION	07/28/1975			39.00
5318		Howard Bermel Joan C. Bermel		RECREATION	05/17/1976			324.00
5319		Dorine Laas Harvey S. Laas Weldon S. Laas	117.00	AGRICULTURE - IRRIGATION	05/31/1963			41.00
5319		Jewett Mine LLC	90.00	INDUSTRIAL MINING	10/12/1990			
5319		Jewett Mine LLC		INDUSTRIAL MINING	10/12/1990			516.10
5319		Jewett Mine LLC		INDUSTRIAL MINING	10/12/1990			
5320		NRG Texas Power LLC	24,000.00	AGRICULTURE - IRRIGATION INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY	10/23/1926			
5320		NRG Texas Power LLC	12,000.00	INDUSTRIAL	10/23/1926			
5320		NRG Texas Power LLC	4,000.00	AGRICULTURE - IRRIGATION INDUSTRIAL	10/23/1926			
5322		Gulf Coast Water Authority	75,000.00	AGRICULTURE AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	07/25/1983			
5322		Gulf Coast Water Authority	40,000.00	MUNICIPAL/DOMESTIC	02/08/1929			864.00
5322		Gulf Coast Water Authority	40,000.00	MUNICIPAL/DOMESTIC	03/14/1955			
5323		Virginia Turner Brooks Beverly T. McDonald	112.00	AGRICULTURE - IRRIGATION	03/30/1965			550.00
5324		BIG CREEK, LTD.		RECREATION	07/11/1955			500.00
5325		NRG Texas Power LLC	28,711.00	INDUSTRIAL INDUSTRIAL - POWER GENERATION	12/16/1955		28,711.00	18,750.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5326		Texas Parks And Wildlife Department	310.00	RECREATION	12/11/1978			854.00
5327		Texas Department of Criminal Justice	746.00	AGRICULTURE - IRRIGATION	04/24/1940			
5328		The Dow Chemical Company	150,000.00	INDUSTRIAL MUNICIPAL/DOMESTIC	02/14/1942			
5328	E	The Dow Chemical Company	65,000.00	INDUSTRIAL	04/04/1960			
5328		The Dow Chemical Company	58,175.00	INDUSTRIAL MUNICIPAL/DOMESTIC	02/14/1942			
5328		The Dow Chemical Company	20,000.00	INDUSTRIAL	02/28/1929			
5328		The Dow Chemical Company	7,500.00	INDUSTRIAL MUNICIPAL/DOMESTIC	04/03/1951			
5328		The Dow Chemical Company	3,136.00	MUNICIPAL/DOMESTIC	03/08/1976			
5328		The Dow Chemical Company	1,800.00	AGRICULTURE - IRRIGATION	02/14/1942			
5328		The Dow Chemical Company	25.00	MUNICIPAL/DOMESTIC RECREATION	02/14/1942			
5328		The Dow Chemical Company	20.00	DOMESTIC AND LIVESTOCK	12/31/1954			
5328		The Dow Chemical Company		INDUSTRIAL MUNICIPAL/DOMESTIC	02/14/1942			10,200.00
5328		The Dow Chemical Company		AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	02/14/1942			30.00
5328		The Dow Chemical Company		INDUSTRIAL MUNICIPAL/DOMESTIC	04/03/1951			600.00
5328		The Dow Chemical Company		INDUSTRIAL MUNICIPAL/DOMESTIC	04/07/1952			21,973.00
5328		The Dow Chemical Company		RECREATION				56,760.00
5329		PEBBLE CREEK INTERESTS, LTD.	286.29	AGRICULTURE - IRRIGATION	11/16/1990			
5329		PEBBLE CREEK LAND COMPANY	28.41	AGRICULTURE - IRRIGATION	11/16/1990			
5329		PEBBLE CREEK DEVELOPMENT COMPANY	8.68	AGRICULTURE - IRRIGATION	11/16/1990			
5329		Pebble Creek Country Club, Inc.	1.62	AGRICULTURE - IRRIGATION	11/16/1990			
5329		BREMERG, LLC James Earl Hoot I. J. Talbot Trustee	1,500.00	AGRICULTURE - IRRIGATION RECREATION	06/07/1954			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
		Raymond J. Punch Sandra Lynn Punch Billy J. Terry						
5329		BREMERG, LLC	322.71	AGRICULTURE - IRRIGATION	06/07/1954			
5329		James Earl Hoot	75.81	AGRICULTURE - IRRIGATION	06/07/1954			
5329		Billy J. Terry	67.25	AGRICULTURE - IRRIGATION	06/07/1954			
5329		I. J. Talbot Trustee	21.00	AGRICULTURE - IRRIGATION	06/07/1954			
5329		Raymond J. Punch Sandra Lynn Punch	13.23	AGRICULTURE - IRRIGATION	06/07/1954			
5329		PEBBLE CREEK INTERESTS, LTD.		RECREATION	11/16/1990			16.00
5330		City of Temple	187.00	AGRICULTURE - IRRIGATION RECREATION	11/19/1990			210.50
5330		Troy Lake, Inc.	114.00	RECREATION	07/30/1956			342.00
5332		United States Department of Energy	52,000.00	MINING	07/14/2000			
5332		United States Department of Energy	135.00	INDUSTRIAL	06/25/1979			
5332		United States Department of Energy	3.50	MUNICIPAL/DOMESTIC	04/27/1981			
5345		AMBERLAKE HOMEOWNERS' ASSOCIATION, INC.		RECREATION	02/08/1991			14.30
5346		Special Camps For Special Kids		RECREATION	03/08/1991			90.00
5349		Brazos Farm Limited	780.00	AGRICULTURE - IRRIGATION	02/28/1991			
5354		3S Real Estate Investments, LLC	200.00	INDUSTRIAL MINING	04/01/1991			191.40
5357		City of College Station		RECREATION	04/11/1991			13.35
5359		Citation 2002 Investment Limited Partnership	200.00	MINING	05/19/1991			
5365		2006 Brazoria Venture, LLC	92.00	RECREATION	10/05/1970			148.00
5365		Hpcp Investments LLC	92.00	RECREATION	10/05/1970			1,075.00
5365		2006 Brazoria Venture, LLC		RECREATION	10/05/1970			1,340.00
5366		Brazosport Water Authority	45,000.00	MUNICIPAL/DOMESTIC	04/04/1960			
5367		Circle X Camp Cooley, Ltd.		RECREATION	02/25/1974			1,298.00
5385		NANTUCKET PRESERVATION ASSOCIATION, INC.		RECREATION	09/19/1991			140.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5405		Scott D. Horne	4.00	AGRICULTURE - IRRIGATION	03/05/1992			
5416		CHESTER, JAMES DONALD		DOMESTIC AND LIVESTOCK	04/15/1992			13.00
5447		Palo Pinto County Municipal Water District 1		INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	02/03/1993			1,153.00
5458		Texas Municipal Power Agency	100.00	INDUSTRIAL MINING	04/05/1993			253.00
5470		UW BRAZOS VALLEY FARM LLC	514.00	AGRICULTURE - IRRIGATION	11/22/1917			
5473		Texas Municipal Power Agency	10.00	INDUSTRIAL MINING	11/19/1993			5.70
5492		U.S. Department of the Interior Fish and Wildlife Service	1,800.00	AGRICULTURE - IRRIGATION RECREATION	01/15/1948			11,315.00
5533		Del Webb Texas Limited Partnership	28.60	AGRICULTURE - IRRIGATION RECREATION	07/11/1995			45.40
5540		SLR Property I, LP		OTHER	10/09/1995			7,173.30
5540		SLR Property I, LP		DOMESTIC AND LIVESTOCK	10/09/1995			356.10
5551		City of Clifton	2,004.00	MUNICIPAL/DOMESTIC	04/03/1996			2,000.00
5552		Campbell Concrete & Materials, L.P.	2,300.00	MINING	05/07/1996		230.00	11.31
5566		Stewart Thompson as Trustee of the Bryan Howard Perry Trust Mary Lynne Perry Thompson Stewart Thompson	250.00	AGRICULTURE - IRRIGATION	01/15/1997			7.00
5567		Campbell Concrete & Materials, L.P.	2,100.00	INDUSTRIAL MINING	01/09/1997		252.00	
5567		Campbell Concrete & Materials, L.P.		INDUSTRIAL MINING	01/09/1997			2,000.00
5570		David Moody Trustee Janet Moody Lamb, as custodian for Laura Kaye Moody JOHNSON, NANCY MOODY LAMB, JANET MOODY MOODY, DAVID MOODY, JOHN MOODY, JUDY MOODY, MICHAEL DAVID	365.00	AGRICULTURE - IRRIGATION	01/17/1997			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5593		Jennifer S. Glaze Jerry W. Glaze	130.00	AGRICULTURE - IRRIGATION	07/01/1997			
5606		City of Rosenberg	18.10	FLOOD CONTROL RECREATION WETLANDS	02/24/1998			
5606		City of Rosenberg		RECREATION	02/24/1998			28.10
5606		City of Rosenberg		RECREATION	02/24/1998			6.76
5616		Protestant Episcopal Church Council		RECREATION	09/30/1998			730.30
5619		City of Stephenville		RECREATION	11/30/1998			2.00
5619		City of Stephenville		RECREATION	11/30/1998			2.00
5628		Mountain Lakes Ranch POA		RECREATION	05/05/1999			1,773.00
5628		Mountain Lakes Ranch POA		RECREATION	05/05/1999			538.00
5658		United States Army Corps of Engineers	1,000.00	WETLANDS	10/18/1999			900.00
5658		United States Army Corps of Engineers		WETLANDS	10/18/1999			60.00
5658		United States Army Corps of Engineers		WETLANDS	10/18/1999			40.00
5658		United States Army Corps of Engineers		WETLANDS	10/18/1999			38.00
5658		United States Army Corps of Engineers		WETLANDS	10/18/1999			30.00
5658		United States Army Corps of Engineers		WETLANDS	10/18/1999			30.00
5658		United States Army Corps of Engineers		WETLANDS	10/18/1999			10.00
5665		Sweet Lake Land & Oil Company, LLC	1,894.00	AGRICULTURE WETLANDS	06/21/2001			1,836.00
5665		Robert Starks	554.00	AGRICULTURE WETLANDS	06/21/2001			
5667		Williamson County Municipal Utility District 10 Williamson County Municipal Utility District 11		RECREATION	12/13/1999			90.64
5680		Rodney Stephens, LP		AGRICULTURE - IRRIGATION	03/03/2000			3.30
5738		3S Real Estate Investments, LLC		RECREATION	02/05/2001			207.95
5741		3S Real Estate Investments, LLC		RECREATION	05/24/2001			631.20
5741		3S Real Estate Investments, LLC		RECREATION	05/24/2001			571.30

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5744		Somervell County Water District	5,000.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	06/27/2001		2,000.00	35.20
5744		Somervell County Water District		AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION	06/27/2001			4,118.00
5748		City of Navasota	430.00	AGRICULTURE - IRRIGATION	02/28/2003			0.25
5752		Gladys Gavranovic William Gavranovic	1,200.00	AGRICULTURE - IRRIGATION	10/18/2001			
5752		Gladys Gavranovic William Gavranovic		AGRICULTURE - IRRIGATION	10/18/2001			367.26
5752		Gladys Gavranovic William Gavranovic		AGRICULTURE - IRRIGATION	10/18/2001			
5752		Gladys Gavranovic William Gavranovic		AGRICULTURE - IRRIGATION	10/18/2001			
5753		Larry Wilson Rita Wilson Scotty Wilson WILSON, STEVEN	100.00	AGRICULTURE - IRRIGATION	10/15/2001			83.50
5755		River Place Property Owners' Association, Inc.		RECREATION	12/04/2001			132.65
5759		The Max and Billie Clark Foundation	11.00	AGRICULTURE - IRRIGATION	12/03/2001			15.00
5767		GILDEN B BLACKBURN	38.05	AGRICULTURE - IRRIGATION	03/29/2002			32.50
5767		BLACKBURN PROPERTIES 401K	31.95	AGRICULTURE - IRRIGATION	03/29/2002			32.50
5767		BLACKBURN PROPERTIES 401K GILDEN B BLACKBURN		AGRICULTURE - IRRIGATION	03/29/2002			32.50
5770		Luminant Mining Company LLC	685.00	MINING	04/03/2002		53.00	
5771		PAK Harris Enterprises, Ltd.	20.00	AGRICULTURE - IRRIGATION	04/12/2002			20.80
5788		Smiling Mallard Development, Ltd.		AGRICULTURE - WILDLIFE MANAGEMENT RECREATION	09/30/2002			436.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5791		JOHNSON, EDWARD Suzanne S. Johnson Edwin Mitschke Helen Mitschke	40.00	AGRICULTURE - IRRIGATION	11/14/2002			89.30
5802	A	City of Albany	465.00	AGRICULTURE - IRRIGATION INDUSTRIAL	04/10/2003			
5802	A	City of Albany		RECREATION	04/10/2003			5.00
5803	A	SLR Property I, LP	50,000.00	INDUSTRIAL				50,000.00
5803	A	SLR Property I, LP	650.00	AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK INDUSTRIAL MINING	07/24/2003			936.00
5803	A	SLR Property I, LP		AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK INDUSTRIAL MINING	07/24/2003			13,492.00
5803	A	SLR Property I, LP		AGRICULTURE - IRRIGATION DOMESTIC AND LIVESTOCK INDUSTRIAL MINING	07/24/2003			2,931.00
5816		SLR Property I, LP	650.00	INDUSTRIAL	10/23/2003			506.00
5816		SLR Property I, LP		DOMESTIC AND LIVESTOCK	10/23/2003			1,743.00
5816		SLR Property I, LP		MINING	10/23/2003			1,669.00
5816		SLR Property I, LP		AGRICULTURE - IRRIGATION	10/23/2003			462.00
5840		City of Waco		AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC	07/13/2004			
5851		Brazos River Authority	434,703.00	AGRICULTURE INDUSTRIAL MINING MUNICIPAL/DOMESTIC RECREATION	10/15/2004			

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
5858		3S Real Estate Investments, LLC		AGRICULTURE - WILDLIFE MANAGEMENT GAME PRESERVES PUBLIC PARKS RECREATION	10/21/2004			3,515.40
5882	A	Charlotte Jane Parks Trust No. 101 Kimberlin P.K. Trust		DOMESTIC AND LIVESTOCK FLOOD CONTROL RECREATION	11/14/1947			100.00
5882	A	Charlotte Jane Parks Trust No. 101 Kimberlin P.K. Trust		DOMESTIC AND LIVESTOCK FLOOD CONTROL RECREATION	12/31/1962			33.00
5882	A	Charlotte Jane Parks Trust No. 101 Kimberlin P.K. Trust		DOMESTIC AND LIVESTOCK FLOOD CONTROL RECREATION	04/18/2005			686.80
5887		SEA CENTER TEXAS		MARICULTURE				
5899		City of Meridian	1,336.00	MUNICIPAL/DOMESTIC	09/08/2005			
5912	A	City of Bryan	14,282.10	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC				
5913	C	City of College Station	12,881.00	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC				
5921		City of Lubbock	50,000.00	AGRICULTURE INDUSTRIAL MUNICIPAL/DOMESTIC	04/17/2006			20,708.00
5931		Luminant Mining Company LLC	1,000.00	MINING	09/14/2006			1,792.10
12023		Kim R. Smith Logging, Inc.		DOMESTIC AND LIVESTOCK RECREATION	07/20/2006			
12048		Walnut Creek Mining Company		DOMESTIC AND LIVESTOCK GAME PRESERVES INDUSTRIAL MINING RECREATION	10/03/2006			1,311.00
12190		SLR Property I, LP		AGRICULTURE - WILDLIFE MANAGEMENT	09/04/2007			7,237.00

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
				DOMESTIC AND LIVESTOCK				
12191		SLR Property I, LP		AGRICULTURE - WILDLIFE MANAGEMENT DOMESTIC AND LIVESTOCK	09/04/2007			1,209.00
12291		Jewett Mine LLC		DOMESTIC AND LIVESTOCK RECREATION	05/22/2008			315.00
12419		Williamson County Municipal Utility District 12	3,620.00	FLOOD CONTROL RECREATION	09/23/2009			30.12
12595		City of Cedar Park		WATER QUALITY	07/07/2011			25.00
12744		Sauder Management Co.		MINING	06/27/2014			
12759		KR Sod - Brazos, L.P.		AGRICULTURE - IRRIGATION				
12825		Lenmo, Inc. Nutcracker Golf Club, Inc.	3,200.00	AGRICULTURE - IRRIGATION	11/20/2013			17.00
12825		Lenmo, Inc. Nutcracker Golf Club, Inc.	597.00	AGRICULTURE - IRRIGATION	11/20/2013			
12825		Lenmo, Inc. Nutcracker Golf Club, Inc.		AGRICULTURE - IRRIGATION	11/20/2013			10.00
12871	A	Somervell County	350.00	AGRICULTURE - IRRIGATION RECREATION	09/19/2012			4.50
12940		Pecan Plantation Owners Association, Inc.	750.00	AGRICULTURE - IRRIGATION	06/04/2013			
12940		Pecan Plantation Owners Association, Inc.		RECREATION	06/04/2013			8.92
12940		Pecan Plantation Owners Association, Inc.		RECREATION	06/04/2013			3.94
12940		Pecan Plantation Owners Association, Inc.		RECREATION	06/04/2013			1.88
12940		Pecan Plantation Owners Association, Inc.		RECREATION	06/04/2013			1.49
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			10.92
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			5.59
12995		Sugartree, Inc.		RECREATION	04/05/2016			2.60
12995		Sugartree, Inc.		RECREATION	04/05/2016			2.19

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
12995		Sugartree, Inc.		RECREATION	04/05/2016			2.05
12995		Sugartree, Inc.		RECREATION	04/05/2016			1.32
12995		Sugartree, Inc.		RECREATION	04/05/2016			1.16
12995		Sugartree, Inc.		RECREATION	04/05/2016			0.98
12995		Sugartree, Inc.		RECREATION	04/05/2016			0.72
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			0.67
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			0.51
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			0.34
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			
12995		Sugartree, Inc.		AGRICULTURE - IRRIGATION RECREATION	04/05/2016			
13066	A	Weatherford College of the Parker County Junior College District	250.00	AGRICULTURE - IRRIGATION	02/16/2016			63.02
13075		Double Diamond, Inc.	800.00	AGRICULTURE - IRRIGATION	07/15/2015			
13075		Double Diamond, Inc.	50.00	AGRICULTURE - IRRIGATION	07/15/2015			
13075		Double Diamond, Inc.		AGRICULTURE - IRRIGATION RECREATION	07/15/2015			65.00
13096		Star Golf Partners, Ltd	120.00	AGRICULTURE - IRRIGATION RECREATION	07/31/1984			
13096		Star Golf Partners, Ltd		AGRICULTURE - IRRIGATION RECREATION	08/04/2015			42.48
13096		Star Golf Partners, Ltd		AGRICULTURE - IRRIGATION RECREATION	08/04/2015			30.12
13096		Star Golf Partners, Ltd		AGRICULTURE - IRRIGATION RECREATION	08/04/2015			0.84

WR No	Amend	Owners	Divert Amt	Use	Prio Dt	Prio Class	Consumptive Amt	Stor Amt
13096		Star Golf Partners, Ltd	1,109.00	AGRICULTURE - IRRIGATION RECREATION				
13117		Williamson County Municipal Utility District 15		RECREATION	03/09/2018			30.46
13117		Williamson County Municipal Utility District 15		RECREATION	03/09/2018			24.65
13347		The Dow Chemical Company		OTHER	03/30/2017			31.14
13387		Beverly J. Stewart Joe M. Stewart	678.00	AGRICULTURE - IRRIGATION	05/25/2018			55.00
13479		DECORDOVA BEND ESTATES OWNERS ASSOCIATION, INC.	400.00	AGRICULTURE RECREATION	07/27/2018			7.11
13489		Bob Gold Shirley Gold	325.00	MINING				
13541		OGC CNO JV, LLC	148.40	AGRICULTURE RECREATION	10/07/2019			20.40
13561		Bell County Water Control & Improvement District No. 1	2,240.00	MUNICIPAL/DOMESTIC	07/11/2019			
13626		Melvin H. Zoch	193.00	AGRICULTURE INDUSTRIAL MINING				
13740		Miramont Country Club Properties, L.P.	736.00	AGRICULTURE RECREATION	03/09/2021			108.90

Table F-2 Summary of Surface Water Availability

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
ROBERT L MOORE	C2915	38	0	0	Bell	AGRICULTURE - IRRIGATION
VERNON & BETTY ANN BARGE	C2937	59	0	0	Bell	AGRICULTURE - IRRIGATION
TEMPLE	C2938	15804	13711	13711	Bell	INDUSTRIAL MUNICIPAL/DOMESTIC
EVELYN FRANCES BYLER, ET AL	C2940	63	0	0	Bell	AGRICULTURE - IRRIGATION
SHALLOW FORD CONSTRUCTION CO	C2941	36	0	0	Bell	AGRICULTURE - IRRIGATION
PYLE BROTHERS INC & VAUGHN T BAIRD	C2942	200	200	200	Bell	AGRICULTURE - IRRIGATION AGRICULTURE - WILDLIFE MANAGEMENT
CITY OF KILLEEN & Killeen Willows, Inc.	C2943	20	0	0	Bell	AGRICULTURE - IRRIGATION
FRANKLIN LIMESTONE COMPANY	C2944	138	0	0	Bell	MINING
GLENN BAIRD	C2945	36	0	0	Bell	AGRICULTURE - IRRIGATION
J BARRY SIEBENLIST ET UX	C2946	24	0	0	Bell	AGRICULTURE - IRRIGATION
PETER GROTHAUS ET UX	C2947	11	0	0	Bell	AGRICULTURE - IRRIGATION
CHESTER E. DICKSON, ET UX	C2948	278	0	0	Bell	AGRICULTURE
CHESTER E. DICKSON, ET UX	C2949	37	0	0	Bell	AGRICULTURE - IRRIGATION
DAVID R KRAUSS ET UX	C2950	25	0	0	Bell	AGRICULTURE - IRRIGATION
ALFRED F NAGEL ET UX	C2951	35	0	0	Bell	AGRICULTURE - IRRIGATION
CLOUD CONSTRUCTION CO INC	C2952	16	0	0	Bell	AGRICULTURE - IRRIGATION
CHARLES N VERHEYDEN ET UX	C2953	75.3	0	0	Bell	AGRICULTURE - IRRIGATION
DENNIS J LYNCH ET UX	C2953	69.7	0	0	Bell	AGRICULTURE - IRRIGATION
ROGER W HINDS ET UX	C2953	89	0	0	Bell	AGRICULTURE - IRRIGATION
WINTHROP ALDRICH ET UX	C2997	64	0	0	Bell	AGRICULTURE - IRRIGATION
GRA'DELLE DUNCAN	C2998	157	157	157	Bell	AGRICULTURE - IRRIGATION
LAVALLA R BLUM	C2999	3	0	0	Bell	AGRICULTURE - IRRIGATION
JAMES L SHEPHERD	C3000	105	0	0	Bell	AGRICULTURE - IRRIGATION
EDD MELTON	C3001	12	0	0	Bell	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
GENE & NELDA FAY RAY	C3002	150	0	0	Bell	AGRICULTURE - IRRIGATION
BENNIE M GIBBS	C3003	32	0	0	Bell	AGRICULTURE - IRRIGATION
ESTATE OF DR JAMIE W BARTON	C3004	50	0	0	Bell	AGRICULTURE - IRRIGATION
VAIL E & BETTY LOGSDON	C3005	5	0	0	Bell	AGRICULTURE - IRRIGATION
KARL B WAGNER ESTATE	C3006	48	0	0	Bell	AGRICULTURE - IRRIGATION
RIVER FARM LTD	C3007	240	0	0	Bell	AGRICULTURE - IRRIGATION
ELEANOR B TUTTLE	C3008	61	0	0	Bell	AGRICULTURE - IRRIGATION
JOSEPH LEWIS ET UX	C3009	81	0	0	Bell	AGRICULTURE - IRRIGATION
CLIFFORD D JONES	C3010	10	0	0	Bell	AGRICULTURE - AQUACULTURE AGRICULTURE - IRRIGATION
LAWANA ELLIS ET VIR	C3011	47	0	0	Bell	AGRICULTURE - IRRIGATION
MIKEL DUPES ET AL	C3011	0.5	0	0	Bell	AGRICULTURE - IRRIGATION
W J RAY ET UX	C3011	16.6	0	0	Bell	AGRICULTURE - IRRIGATION
MILL CREEK GOLF & COUNTRY CLUB	C3013	168	0	0	Bell	AGRICULTURE - IRRIGATION
EDWIN A BAILEY ESTATE	C3014	63	0	0	Bell	INDUSTRIAL
PAUL T BOSTON	C3015	36	0	0	Bell	AGRICULTURE - IRRIGATION
MOLLIE H BROOKS ET AL	C3726	10	0	0	Bell	AGRICULTURE - IRRIGATION
FIVE WELLS RANCH COMPANY	C3767	120	0	0	Bell	AGRICULTURE - AQUACULTURE AGRICULTURE - IRRIGATION
ELLIS G & JEAN M MARSHALL	P3762	100	0	0	Bell	AGRICULTURE - IRRIGATION
PAUL J MEYER ET AL	P3763	361	0	0	Bell	AGRICULTURE - IRRIGATION
BILLY G. CURRY ET AL	P4012	440	0	0	Bell	AGRICULTURE - IRRIGATION
BELTON	P4024	300	0	0	Bell	AGRICULTURE - IRRIGATION
SIDNEY KACIR	P4095	548	0	0	Bell	AGRICULTURE - IRRIGATION
THE SILVER QUAIL COMPANY	P4218	172	0	0	Bell	AGRICULTURE - IRRIGATION
HAYNES CORPORATION	P5076	25	0	0	Bell	AGRICULTURE - IRRIGATION
CITY OF TEMPLE	P5330	187	0	0	Bell	AGRICULTURE - IRRIGATION RECREATION
KARL T BUTZ JR	C2266	18	0	0	Bosque	MUNICIPAL/DOMESTIC

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
MICHAEL J LOTT ET UX	C2269	4	0	0	Bosque	MUNICIPAL/DOMESTIC
J. N. BURNS	C2270	24	0	0	Bosque	AGRICULTURE - IRRIGATION
ALBERT N PIKE & EUGENIA PIKE GOODMAN	C2271	15	0	0	Bosque	AGRICULTURE - IRRIGATION
DAVID H. MONNICH	C2272	42	0	0	Bosque	AGRICULTURE - IRRIGATION
LOUIS A BEECHERL JR	C2276	427.33	236	236	Bosque	AGRICULTURE - IRRIGATION
THOMAS G PETERS, ET UX	C2277	10	0	0	Bosque	AGRICULTURE - IRRIGATION
WILLIAM E. GIPSON	C2278	114	0	0	Bosque	AGRICULTURE - IRRIGATION
LOUISE P L HAMPE ET AL	C2279	9	0	0	Bosque	AGRICULTURE - IRRIGATION
JOHN DAVID BELL ET UX	C2280	69	0	0	Bosque	AGRICULTURE - IRRIGATION
RAY J MILLER	C2281	7	0	0	Bosque	AGRICULTURE - IRRIGATION
LESTER M ALBERTHAL JR	C2282	253	0	0	Bosque	AGRICULTURE - IRRIGATION
MARGARET D WHITE	C2283	8	0	0	Bosque	MUNICIPAL/DOMESTIC
L C AND ISABELLE C HOWARD	C2284	25	0	0	Bosque	AGRICULTURE - IRRIGATION
LEONARD C RADDE	C2285	35	0	0	Bosque	AGRICULTURE - IRRIGATION
J. L. JENSON	C2290	16.1	0	0	Bosque	MUNICIPAL/DOMESTIC
JAMES CROSLEY ET UX	C2290	28.9	0	0	Bosque	MUNICIPAL/DOMESTIC
CITY OF CLIFTON	C2291	607	0	0	Bosque	MUNICIPAL/DOMESTIC
W. O. GLOFF	C2292	261	0	0	Bosque	AGRICULTURE - IRRIGATION
ESTHER K WIEDERAENDERS	C2293	7	7	7	Bosque	AGRICULTURE - IRRIGATION
R.D.,J.L.,&M.L. LUNDBERG	C2294	80	0	0	Bosque	AGRICULTURE - IRRIGATION
REGINALD & NALLIE LINDBERG	C2295	49	0	0	Bosque	MUNICIPAL/DOMESTIC
D. I. BULLION	C2299	22	0	0	Bosque	MUNICIPAL/DOMESTIC
WILLIAM J. HIX ET AL	C2300	100	0	0	Bosque	AGRICULTURE - IRRIGATION
CYRIL WAGNER, JR., ETAL	C4103	186	0	0	Bosque	AGRICULTURE - IRRIGATION
PERRY R BASS INC	C4104	3811	0	0	Bosque	AGRICULTURE - IRRIGATION
HARRY V DULICK	C4108	32	0	0	Bosque	AGRICULTURE - IRRIGATION
LOUIS & VIRGINIA GREGORY	C4109	10	0	0	Bosque	AGRICULTURE - IRRIGATION
LUCILLE C BUTLER	C4110	20	0	0	Bosque	RECREATION
PAUL C. MURPHY, JR.	C4111	6	4	4	Bosque	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
LOUIS & VIRGINIA GREGORY	C4112	12	0	0	Bosque	AGRICULTURE - IRRIGATION
JAMES M. WALKER	C4113	43	43	43	Bosque	AGRICULTURE - IRRIGATION
MARY ANN JENKINS ET AL	C4317	243	0	0	Bosque	AGRICULTURE - IRRIGATION MINING
ED HUDDLESTON & JOHN MCPHERSON ET AL	C4318	3487	2383	2383	Bosque	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC
LP REED RANCH LTD	P3809	230	0	0	Bosque	AGRICULTURE - IRRIGATION
WAYNE HARGRAVE, ET UX	C3467	12	0	0	Eastland	AGRICULTURE - IRRIGATION
EASTLANDLAND INDUSTRIAL FOUNDATION	C3468	1607	830	830	Eastland	MINING
LARRY MORROW	C3469	21	0	0	Eastland	RECREATION
RONNIE LOVE	C3473	40	0	0	Eastland	AGRICULTURE - IRRIGATION
JERRY P MEHAFFEY	C3474	30	0	0	Eastland	RECREATION
C M PIPPIN JR	C3475	8	0	0	Eastland	AGRICULTURE - IRRIGATION
TEDDY J SNIDER ET UX	C3479	30	0	0	Eastland	AGRICULTURE - IRRIGATION
WILL D BROWN ET UX	C3481	25	0	0	Eastland	AGRICULTURE - IRRIGATION
JOHNNY W & MARY C EAVES	C3482	13	0	0	Eastland	AGRICULTURE - IRRIGATION
D B WARREN	C3483	90	0	0	Eastland	AGRICULTURE - IRRIGATION
MURTICE C RODGERS	C3484	40	0	0	Eastland	AGRICULTURE - IRRIGATION
D B WARREN	C3487	40	0	0	Eastland	AGRICULTURE - IRRIGATION
HELEN L DICKSON	C3488	30	0	0	Eastland	RECREATION
THOMAS H BIRDSONG, III	C3489	140	0	0	Eastland	AGRICULTURE - IRRIGATION
BEN HAMNER	C3520	40	0	0	Eastland	AGRICULTURE - IRRIGATION
TRUETT & PATSY S PRUILL	C3521	40	0	0	Eastland	AGRICULTURE - IRRIGATION
JAMES L HUGHES	C3522	7	0	0	Eastland	AGRICULTURE - IRRIGATION
ROBERT M & IMOGENE BURNS	C3523	20	0	0	Eastland	AGRICULTURE - IRRIGATION
THOMAS H BIRDSONG III	C3525	10	0	0	Eastland	AGRICULTURE - IRRIGATION
FRED HAGAMAN ET AL	C4014	600	0	0	Eastland	AGRICULTURE - IRRIGATION
FRED HAGAMAN ET AL	C4015	27	0	0	Eastland	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
HUBERT H CAPPS	C4016	22	0	0	Eastland	AGRICULTURE - IRRIGATION
LYNDAL D GARNER JR ET UX	C4017	40	0	0	Eastland	AGRICULTURE - IRRIGATION
ROSS HODGES	C4018	40	0	0	Eastland	AGRICULTURE - IRRIGATION
A. D. CRAWFORD	C4023	30	0	0	Eastland	AGRICULTURE - IRRIGATION
CISCO	C4212	1000	0	0	Eastland	AGRICULTURE - IRRIGATION
DON WEINACHT ET AL	P4023	600	0	0	Eastland	AGRICULTURE - IRRIGATION
CARL MOODY ET AL	P4212	300	0	0	Eastland	AGRICULTURE - IRRIGATION
W J DUBE	C4346	200	0	0	Falls	AGRICULTURE - IRRIGATION
MONT HAMM	C4351	160	0	0	Falls	AGRICULTURE - IRRIGATION
DENNIS L BIRKES ETAL	C4353	40	40	40	Falls	AGRICULTURE - IRRIGATION
JEAN W EPPERSON	C4354	50	50	50	Falls	AGRICULTURE - IRRIGATION
DAVID L. ROBERTS & WIFE	C4356	84	84	84	Falls	AGRICULTURE RECREATION
JOHN C ISAACS ET AL	C4358	991	0	0	Falls	AGRICULTURE - IRRIGATION
JOHN C ISAACS ET AL	C4359	991	0	0	Falls	AGRICULTURE - IRRIGATION
ROSEBUD	C4360	238.23	0	0	Falls	MUNICIPAL/DOMESTIC
ROBERT L MACHA ET AL	P4013	1200	0	0	Falls	AGRICULTURE - IRRIGATION
MARY D WALSH	P4014	1851	0	0	Falls	AGRICULTURE - IRRIGATION
T W WHALEY JR	P4042	700	0	0	Falls	AGRICULTURE - IRRIGATION
N S WATERMAN JR ET UX	P4063	465.37	0	0	Falls	AGRICULTURE - IRRIGATION
JOYCE ANN FREDE	C5286	709	0	0	Grimes	AGRICULTURE - IRRIGATION
TEXAS MUNICIPAL POWER AGENCY	C5312	200	0	0	Grimes	RECREATION
TEXAS DEPT OF CRIMINAL JUSTICE	P5290	848	0	0	Grimes	AGRICULTURE - IRRIGATION
TEXAS MUNICIPAL POWER AGENCY	P5354	200	0	0	Grimes	INDUSTRIAL MINING
TEXAS MUNICIPAL POWER AGENCY	P5458	100	100	100	Grimes	INDUSTRIAL MINING
TEXAS MUNICIPAL POWER AGENCY	P5473	10	0	0	Grimes	INDUSTRIAL MINING

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
STEWART & MARY THOMPSON &TRUST	P5566	250	0	0	Grimes	AGRICULTURE - IRRIGATION
LAFARGE CORPORATION	C4100	125	0	0	Johnson	AGRICULTURE - IRRIGATION
STANDARD INVESTMENT CO.	C4102	77	0	0	Johnson	AGRICULTURE - IRRIGATION
CREPE MYRTLE OF TEXAS INC	C4105	4	0	0	Johnson	RECREATION
WESLEY RAY CARSON	C4105	8	0	0	Johnson	RECREATION
RIVERVIEW INC	C4107	335.4	0	0	Johnson	AGRICULTURE - IRRIGATION
CLEBURNE	P4258	720	0	0	Johnson	INDUSTRIAL MUNICIPAL/DOMESTIC
JAMES RANDOLPH SCOTT	C4127	120	0	0	Jones	RECREATION
HARRY C. REAUGH & WIFE	C4132	212	0	0	Jones	AGRICULTURE - IRRIGATION
JAMES FARRINGTON ET AL	C4133	225	0	0	Jones	AGRICULTURE - IRRIGATION
NELSON PUETT	C4136	345	0	0	Jones	RECREATION
ROSS S BRADFORD ET UX	C4137	54	0	0	Jones	AGRICULTURE - IRRIGATION
THOMAS J MARSHALL & WIFE	C4138	2	0	0	Jones	AGRICULTURE - IRRIGATION
RALPH BRIDWELL ET UX	C4140	165	0	0	Jones	FLOOD CONTROL
DOLLY KEESEE	C4141	69	0	0	Jones	AGRICULTURE - IRRIGATION
NOEL W. PETRE	C4149	42	0	0	Jones	AGRICULTURE - IRRIGATION
JAMES H. ICE	C4162	179	0	0	Jones	AGRICULTURE - IRRIGATION
BILLY MAC COOK	C4163	44	0	0	Jones	MUNICIPAL/DOMESTIC
J. N. MONTGOMERY & WIFE	C4164	32	0	0	Jones	AGRICULTURE - IRRIGATION
IRLENE M SMITH ET AL	C4166	32	0	0	Jones	AGRICULTURE - IRRIGATION
GEOCHEMICAL SURVEYS	C4167	40	0	0	Jones	HYDROELECTRIC
J M ALEXANDER RANCH CO LTD	C4170	200	0	0	Jones	RECREATION
MARY LOIS WILSON	C4171	310	0	0	Jones	DOMESTIC AND LIVESTOCK RECREATION
VIOLET H FRAZIER	C4172	92	0	0	Jones	AGRICULTURE - IRRIGATION RECREATION
VIOLET H FRAZIER	C4173	40	0	0	Jones	RECREATION
FIRST NATL BK ABILENE ET AL	C4767	60	0	0	Jones	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
ABILENE	P4266	4330	0	0	Jones	AGRICULTURE - IRRIGATION
SAMUEL E CLONTS, ET AL	C3413	182	0	0	Knox	AGRICULTURE - IRRIGATION
COUNTY-OTHER, KNOX	C3414	34	34	34	Knox	AGRICULTURE - IRRIGATION
PLAINS PETROLEUM OPERATING CO	P5435	235	0	0	Knox	AGRICULTURE - IRRIGATION
FOSSIL CREEK REALTY INC	C2958	2.63	0	0	Lampasas	AGRICULTURE - IRRIGATION
SAMUEL G TOUB	C2958	7.25	0	0	Lampasas	AGRICULTURE - IRRIGATION
W G BETTIS ET AL	C2958	0.12	0	0	Lampasas	AGRICULTURE - IRRIGATION
JOHN R & LYNN COATS	C2959	23	0	0	Lampasas	AGRICULTURE - IRRIGATION
ALBERT S & WINIFRED L BAKER	C2960	46	0	0	Lampasas	AGRICULTURE - IRRIGATION
M K & RUTH NEAL PATTESON	C2961	54	0	0	Lampasas	AGRICULTURE - IRRIGATION
LEONARD J TROVERO, SR	C2962	28	17	17	Lampasas	AGRICULTURE - IRRIGATION
FRANCES VIRGINIA NUCKLES ET AL	C2963	48	0	0	Lampasas	AGRICULTURE - IRRIGATION
EARL BROOKS	C2964	1	0	0	Lampasas	AGRICULTURE - IRRIGATION
JIMMIE E BOULTINGHOUSE ET AL	C2965	34.3	0	0	Lampasas	AGRICULTURE - IRRIGATION
ROY LEE BOULTINGHOUSE	C2965	18.8	0	0	Lampasas	AGRICULTURE - IRRIGATION
MARVIN E & MARY BLANCHE WHITE	C2966	31	0	0	Lampasas	AGRICULTURE - IRRIGATION
H Y JR & LOIS POLLARD PRICE	C2967	5	0	0	Lampasas	AGRICULTURE - IRRIGATION
BURRELL ROITCH	C2969	8	0	0	Lampasas	AGRICULTURE - IRRIGATION
CHARLES E BLANTON	C2970	51.2	0	0	Lampasas	AGRICULTURE - IRRIGATION
CITY OF LAMPASAS	C2970	6.2	0	0	Lampasas	AGRICULTURE - IRRIGATION
FRED WILLIS ET UX	C2970	2.6	0	0	Lampasas	AGRICULTURE - IRRIGATION
LAMPASAS	C2971	3760	0	0	Lampasas	AGRICULTURE - IRRIGATION MUNICIPAL/DOMESTIC
CITY OF LAMPASAS	C2972	228	0	0	Lampasas	AGRICULTURE - IRRIGATION
MELVIN POTTS	C2973	6	0	0	Lampasas	AGRICULTURE - IRRIGATION
E C O'NEAL JR	C2974	144	59	59	Lampasas	AGRICULTURE - IRRIGATION
RAY A & ELIZABETH K JONES	C2975	46	46	46	Lampasas	AGRICULTURE - IRRIGATION
RAY A JONES	C2976	48	48	48	Lampasas	INDUSTRIAL
CURTIS KIDD ET UX	C2977	42	42	42	Lampasas	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
GUNDERLAND PARK RANCH, INC	C2978	54	0	0	Lampasas	AGRICULTURE - IRRIGATION
JOHN T HIGGINS	C2979	95	0	0	Lampasas	AGRICULTURE - IRRIGATION
ROBERT L GUYLER	C2980	1	0	0	Lampasas	AGRICULTURE - IRRIGATION
DOROTHY N CAPPS	C2981	6.3	0	0	Lampasas	AGRICULTURE - IRRIGATION
JOE D BOYD	C2981	45.4	0	0	Lampasas	AGRICULTURE - IRRIGATION
WYLIE R CAPPS	C2981	6.3	0	0	Lampasas	AGRICULTURE - IRRIGATION
A J DEWAYNE KENDRICK	C2982	6	0	0	Lampasas	AGRICULTURE - IRRIGATION
RALPH D & ROBBIE BURROW	C2983	7	0	0	Lampasas	AGRICULTURE - IRRIGATION
DOYLE & BARBARA J WALKER	C2984	18	0	0	Lampasas	AGRICULTURE - IRRIGATION
R B & FRANCES M PORTER	C2985	18	0	0	Lampasas	AGRICULTURE - IRRIGATION
JAMES BUFORD BRIGGS	C2986	46.8	0	0	Lampasas	AGRICULTURE - IRRIGATION
ROBERT C HALLMARK ET AL	C2987	2	2	2	Lampasas	AGRICULTURE - IRRIGATION
JOE T & CAROLINE PARKS	C2988	3	3	3	Lampasas	AGRICULTURE - IRRIGATION
TEXAS PARKS & WILDLIFE DEPT	C5288	6	6	6	Limestone	AGRICULTURE - IRRIGATION
GROESBECK	C5289	2500	0	0	Limestone	AGRICULTURE - IRRIGATION
ERNI LUNA ET AL	C5290	8	8	8	Limestone	AGRICULTURE - IRRIGATION
JOHN MOCEK ET UX	C2208	20	0	0	McLennan	AGRICULTURE - IRRIGATION
ABIGAIL HALBERT KAMM	C2301	70	0	0	McLennan	AGRICULTURE - IRRIGATION
STEVEN K CAPERTON ET UX	C2302	122	0	0	McLennan	AGRICULTURE - IRRIGATION
WALTER WARREN FAIR, ET UX	C2303	30	0	0	McLennan	AGRICULTURE - IRRIGATION
HUGH WHITFIELD DAVIS	C2304	3.1	0	0	McLennan	AGRICULTURE - IRRIGATION
WALTER WARREN FAIR ET UX	C2304	43.9	0	0	McLennan	AGRICULTURE - IRRIGATION
BERTRAND A TALBERT	C2305	40	0	0	McLennan	AGRICULTURE - IRRIGATION
HARRY A. & ATHALIA P. BRITTON	C2306	5	5	5	McLennan	AGRICULTURE - IRRIGATION
SAMUEL N. & TESSIE B. CARROLL	C2307	23	0	0	McLennan	AGRICULTURE - IRRIGATION
IRA H WESTERFIELD	C2308	10	0	0	McLennan	AGRICULTURE - IRRIGATION
JERRY AND JOY CLEMMONS	C2309	10	0	0	McLennan	AGRICULTURE - IRRIGATION
JIM HERING	C2310	16	0	0	McLennan	AGRICULTURE - IRRIGATION
ROBERT HALL	C2312	162	0	0	McLennan	AGRICULTURE - IRRIGATION

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IRA H. WESTERFIELD	C2313	14	0	0	McLennan	AGRICULTURE - IRRIGATION
C. L. SLIGH FARMS	C2316	193	0	0	McLennan	AGRICULTURE - IRRIGATION
CHARLOTTE B JOHNSON ET AL	C2317	248	0	0	McLennan	AGRICULTURE AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC
FRANK W SIPAN ET AL	C2318	35	0	0	McLennan	AGRICULTURE - IRRIGATION
NELDA KATHRYN CARGILL	C4325	48	0	0	McLennan	AGRICULTURE - IRRIGATION
DAN WELDON WILLIAMS	C4326	6	0	0	McLennan	AGRICULTURE - IRRIGATION
DAN WELDON WILLIAMS	C4327	4	0	0	McLennan	AGRICULTURE - IRRIGATION
GEORGE L MOORE	C4328	40	0	0	McLennan	AGRICULTURE - IRRIGATION
THOMAS BOTHERS GRASS LTD	C4329	930	0	0	McLennan	AGRICULTURE - IRRIGATION
KARL LEE & ELSIE MAE REDDELL	C4330	16	0	0	McLennan	AGRICULTURE - IRRIGATION
DIANA M WELLBORN ET AL	C4331	44	0	0	McLennan	AGRICULTURE - IRRIGATION
KARL LEE REDDELL ET AL	C4332	32	0	0	McLennan	AGRICULTURE - IRRIGATION
FAYE SMITH ROMINE	C4336	55	0	0	McLennan	AGRICULTURE - IRRIGATION
KAYE SMITH BOYD	C4336	55	0	0	McLennan	AGRICULTURE - IRRIGATION
DONALD RISINGER PENSION PLAN	C4337	58	0	0	McLennan	AGRICULTURE - IRRIGATION
JIM G DOLLINS, SR	C4338	130	0	0	McLennan	AGRICULTURE - IRRIGATION
B.T. GEORGE, C. WALKER, & J&B ENGLISH	C4339	100	0	0	McLennan	AGRICULTURE - IRRIGATION
WACO	C4340	5600	5600	5600	McLennan	INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC
LOLA ROBINSON	C4344	1060	0	0	McLennan	AGRICULTURE - IRRIGATION
VANCE DUNNAM JR	C4347	12	12	12	McLennan	AGRICULTURE - IRRIGATION
JOE RAY HATTER, SR	C4348	70	54	54	McLennan	AGRICULTURE - IRRIGATION
RDS LAND CO LLC	C4349	299.29	49	49	McLennan	AGRICULTURE - IRRIGATION
JOHN P ESTES ESTATE TRUST ETAL	C4350	20	20	20	McLennan	AGRICULTURE - IRRIGATION
HOLY LAND & CATTLE	P3936	2600	0	0	McLennan	AGRICULTURE - IRRIGATION

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ROBINSON	P5085	6021	0	0	McLennan	MUNICIPAL/DOMESTIC
B R LAUTERBORN, HERMAN NEUSCH	C3727	72	0	0	Milam	AGRICULTURE - IRRIGATION
JOE GLASER	C3729	100	0	0	Milam	AGRICULTURE - AQUACULTURE INDUSTRIAL
W T PEARSON JR	C3749	110	0	0	Milam	AGRICULTURE - IRRIGATION
T.R. COFFIELD	C3750	125	0	0	Milam	RECREATION
DONNY LINDNER ET UX	C3759	439.09	0	0	Milam	AGRICULTURE - IRRIGATION
CLIFFORD L GUSTAFSON ET UX	C3760	41.5	42	42	Milam	DOMESTIC AND LIVESTOCK RECREATION
CAMERON	C3761	2792	2792	2792	Milam	AGRICULTURE - IRRIGATION
ESTATE OF HUBERT L MCCLAREN	C3763	40	0	0	Milam	AGRICULTURE - IRRIGATION
HAROLD B & OPAL B FISHER	C3764	45	0	0	Milam	RECREATION
LARRY WAYNE MCCLAREN ET AL	C3765	148	0	0	Milam	AGRICULTURE - IRRIGATION
LINDA ETHRIDGE GROTHE	C3766	90	0	0	Milam	AGRICULTURE - IRRIGATION
MICHAEL LLOYD ET UX	C3768	124.7	0	0	Milam	AGRICULTURE - IRRIGATION
LARRY WAYNE MCCLAREN	C3769	150	0	0	Milam	AGRICULTURE - IRRIGATION
JANE SMOOT	C3770	149	0	0	Milam	AGRICULTURE - IRRIGATION
ELLIOTT W. ATKINSON, ET AL	C3771	15	0	0	Milam	AGRICULTURE - IRRIGATION
V.T. WHITE	C3772	8	0	0	Milam	AGRICULTURE - IRRIGATION
ARLEDGE & SHANAHAN LP	C3773	1643.71	0	0	Milam	AGRICULTURE - IRRIGATION
JANE SMOOT	C3774	30	0	0	Milam	AGRICULTURE - IRRIGATION
LLOYD E LEIFESTE ET UX	C3775	1767	0	0	Milam	AGRICULTURE - IRRIGATION
GLORIA ELY HOLDEN	C4368	76	0	0	Milam	AGRICULTURE - IRRIGATION
GENE W BONORDEN	C4369	4	0	0	Milam	AGRICULTURE - IRRIGATION
ROCKDALE COUNTRY CLUB	C5273	1	0	0	Milam	AGRICULTURE - IRRIGATION
ROBERT W NORRIS	P3761	400	0	0	Milam	AGRICULTURE - IRRIGATION
CALVIN KRAEMER ET AL	P4015	350	0	0	Milam	AGRICULTURE - IRRIGATION
CHAMBERLIN FAMILY TRUST	P4015	350	0	0	Milam	AGRICULTURE - IRRIGATION
BETTY KACIR WHEELER	P4109	400	0	0	Milam	AGRICULTURE - IRRIGATION

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HILLIARD RANCHES INC	P4279	600	0	0	Milam	AGRICULTURE - IRRIGATION
WARRENS TURF NURSERY INC	P4279	150	0	0	Milam	AGRICULTURE - IRRIGATION
DAVID B & AUDREY HATCHER	P5077	600	0	0	Milam	AGRICULTURE - IRRIGATION
ALCOA	P5803	650	0	0	Milam	INDUSTRIAL
H & H FEEDLOT INC	C4115	45	0	0	Nolan	INDUSTRIAL
SWEETWATER COUNTRY CLUB, INC	C4129	40	40	40	Nolan	AGRICULTURE - IRRIGATION
FLOYD GUNN	P4128	102	0	0	Nolan	AGRICULTURE - IRRIGATION
AGNES FIELD ELIOT	C4361	184	0	0	Robertson	AGRICULTURE - IRRIGATION
DOUGLAS A MCCRARY	C4362	363	0	0	Robertson	AGRICULTURE - IRRIGATION
JOE REISTINO ESTATE	C4363	1500	0	0	Robertson	AGRICULTURE - IRRIGATION
CLIFF A SKILES JR	C4364	917.64	0	0	Robertson	AGRICULTURE - IRRIGATION
WESLEY E ANDERSON ET AL	C4365	976	0	0	Robertson	AGRICULTURE - IRRIGATION
ELLEN WIESE BRIEN ET AL	C4366	400	0	0	Robertson	AGRICULTURE - IRRIGATION
GERTRUD PAPP ETAL	C4367	145	0	0	Robertson	AGRICULTURE - IRRIGATION
ONAH B PENN ETAL	C4370	297	0	0	Robertson	AGRICULTURE - IRRIGATION
SAM F DESTEFANO	C4371	700	0	0	Robertson	AGRICULTURE - IRRIGATION
FLOYD KEMPENSKI	C4375	4	3	3	Robertson	AGRICULTURE - IRRIGATION
NELSON FAMILY FARMING TRUST	C4376	74	0	0	Robertson	AGRICULTURE - IRRIGATION
GEORGE C GASSEN	C4377	20	20	20	Robertson	AGRICULTURE - IRRIGATION
CLIFFORD A SKILES JR ET UX	C5470	514	435	435	Robertson	AGRICULTURE - IRRIGATION
GATHAN REISTINO	P4080	1500	0	0	Robertson	AGRICULTURE - IRRIGATION
TEXAS-NEW MEXICO POWER CO	P5148	458	0	0	Robertson	INDUSTRIAL INDUSTRIAL - POWER GENERATION WATER QUALITY
LUMINANT MINING COMPANY	P5770	53	0	0	Robertson	MINING
RICHARD SCHKADE	C4169	67	0	0	Shackelford	RECREATION
H R STASNEY & SONS LTD	C4175	91.31	84	84	Shackelford	AGRICULTURE - IRRIGATION INDUSTRIAL MINING

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ERNEST D. FINCHER	C4185	10	0	0	Shackelford	AGRICULTURE - IRRIGATION
RAYMOND C TAYLOR ET AL	C4186	28.98	0	0	Shackelford	AGRICULTURE - IRRIGATION RECREATION
DAMSON OIL CORP ET AL	C4209	50	50	50	Shackelford	INDUSTRIAL MINING
JAMES R. GREEN	C4210	35	0	0	Shackelford	RECREATION
W.F.LONG	C2273	104.38	0	0	Somervell	INDUSTRIAL INDUSTRIAL - POWER GENERATION MUNICIPAL/DOMESTIC
J V & M G DURANT	C4080	112	0	0	Somervell	AGRICULTURE - IRRIGATION
F. L. VAUGHN	C4081	160	0	0	Somervell	AGRICULTURE - IRRIGATION
S. B. GRISSOM	C4082	203	0	0	Somervell	AGRICULTURE - IRRIGATION
J B SANDERSON ET AL	C4094	16	0	0	Somervell	AGRICULTURE - IRRIGATION
J. C. MCFALLS	C4095	10	0	0	Somervell	AGRICULTURE - IRRIGATION
BOB HARRIS OIL CO	C4098	258	0	0	Somervell	AGRICULTURE - IRRIGATION MINING
DOROTHY W. LITTLE ETAL	C4099	5	0	0	Somervell	AGRICULTURE - IRRIGATION
J J KEETER TRUST & CLYDE STUTEVILLE	C3446	9	0	0	Throckmorton	RECREATION
JOE P (JR) & HENRIETTA CALLAN	C3730	21	0	0	Williamson	AGRICULTURE - IRRIGATION
REUBEN FLOYD CLARK	C3731	29	0	0	Williamson	AGRICULTURE - IRRIGATION
GEORGETOWN COUNTRY CLUB	C3734	45	17	17	Williamson	AGRICULTURE - IRRIGATION
HENRY GRADY RYLANDER	C3736	1	0	0	Williamson	RECREATION
GENE H BINGHAM ET AL	C3739	240	0	0	Williamson	MINING
WENDELL F. GIBSON	C3740	20	0	0	Williamson	AGRICULTURE - IRRIGATION
LINDA ANN SMITH	C3741	10.9	0	0	Williamson	AGRICULTURE - IRRIGATION
TED KALLUS ET UX	C3741	17.1	0	0	Williamson	AGRICULTURE - IRRIGATION
MAXINE HARRIS	C3742	16.9	0	0	Williamson	AGRICULTURE - IRRIGATION
R SCOTT POPE ET UX	C3742	7.2	0	0	Williamson	AGRICULTURE - IRRIGATION

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JL ENTERPRISES LLP	C3743	32	0	0	Williamson	RECREATION
T. D. VAUGHAN	C3744	110	0	0	Williamson	AGRICULTURE - IRRIGATION
BEN W KURIO (BWK PARTNERSHIP)	C3745	33	0	0	Williamson	AGRICULTURE - IRRIGATION
CHARLENE M SEFCIK	C3746	12	0	0	Williamson	AGRICULTURE - IRRIGATION
JIMMY F. BYERS	C3747	284	0	0	Williamson	AGRICULTURE - IRRIGATION
A C STEARNS ESTATE	C3748	203	0	0	Williamson	AGRICULTURE - IRRIGATION INDUSTRIAL MUNICIPAL/DOMESTIC RECREATION
BERTHA S. JOHNSON	C3751	30	30	30	Williamson	AGRICULTURE - IRRIGATION
THE ESTATE OF JOHN V STILES	C3753	1	0	0	Williamson	AGRICULTURE - IRRIGATION RECREATION
THORNDALE	C3754	60	0	0	Williamson	RECREATION
W.A. & JACK WINTERROWD	C3755	50	43	43	Williamson	AGRICULTURE - IRRIGATION
LESTER W. STILES	C3756	3	0	0	Williamson	RECREATION
THORNDALE	C3757	100	0	0	Williamson	RECREATION
SAMUEL W & MARGARET JONES	P4166	120	0	0	Williamson	AGRICULTURE - IRRIGATION
DEL WEBB TEXAS L P	P5533	26.1	0	0	Williamson	AGRICULTURE - IRRIGATION RECREATION
FORBIN INVESTMENTS N V	C4372	861.7	0	0	Brazos	AGRICULTURE - IRRIGATION
WILLIE BALDOBINO ET UX	C5286	258.5	0	0	Grimes	AGRICULTURE - IRRIGATION
BRIARCREST COUNTRY CLUB INC	C5308	12	0	0	Brazos	AGRICULTURE - IRRIGATION
TOM J. MOORE FARMS	P4016	5476.21	0	0	Brazos	AGRICULTURE - IRRIGATION
ROBERT T & GERALDINE MOORE	P4017	962	0	0	Brazos	AGRICULTURE - IRRIGATION
PEBBLE CREEK COUNTRY CLUB INC	P5329	595.05	0	0	Brazos	AGRICULTURE - IRRIGATION
NANTUCKET LTD	P5385	140	0	0	Brazos	RECREATION
DAVID MOODY TRUSTEE ET AL	P5570	365	0	0	Brazos	AGRICULTURE - IRRIGATION
RUDOLPH CARL DROSCHE JR	C2813	153	0	0	Coryell	AGRICULTURE - IRRIGATION
W J ALEXANDER	C2886	10	0	0	Coryell	AGRICULTURE - IRRIGATION

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JOE TRUETT LIGHTSEY ET AL	C2887	30	0	0	Coryell	AGRICULTURE - IRRIGATION
GEORGE T REYNOLDS III ET UX	C2888	2	0	0	Coryell	AGRICULTURE - IRRIGATION
DON THOMAS ROGERS	C2890	8	0	0	Coryell	AGRICULTURE - IRRIGATION
W F MORELAND BY PASS TRUST	C2891	57	0	0	Coryell	AGRICULTURE - IRRIGATION
W N & MARY JANE WHISENHUNT	C2892	32	0	0	Coryell	AGRICULTURE - IRRIGATION
SEABORN L ASHBY	C2893	10	0	0	Coryell	AGRICULTURE - IRRIGATION
SAN PABLO CORPORATION	C2894	2	0	0	Coryell	AGRICULTURE - IRRIGATION
WILLIAM TRAVIS LAXSON	C2895	40.35	0	0	Coryell	AGRICULTURE - IRRIGATION
MARGARET CALLAWAY	C2896	124	0	0	Coryell	AGRICULTURE - IRRIGATION
R H MELTON	C2897	8	0	0	Coryell	AGRICULTURE - IRRIGATION
DONALD J MACKIE ET UX& GLENNIS G EGGER	C2898	23	0	0	Coryell	AGRICULTURE - IRRIGATION
CHARLES C POWELL	C2900	14	0	0	Coryell	AGRICULTURE - IRRIGATION
JACK & MINNIE MORSE	C2901	100	0	0	Coryell	AGRICULTURE - IRRIGATION
QUENTIN G MCCORKLE ET UX	C2902	18	0	0	Coryell	AGRICULTURE - IRRIGATION
GLENROOK FARMS	C2903	530	530	530	Coryell	AGRICULTURE - IRRIGATION
STERLIN J BARNARD	C2904	40	0	0	Coryell	AGRICULTURE - IRRIGATION
DAN G DAVIDSON ESTATE	C2905	14	0	0	Coryell	AGRICULTURE - IRRIGATION
THELMA R CARTER	C2906	36	0	0	Coryell	AGRICULTURE - IRRIGATION
DENNIS CHARLES LUEDTKE ET AL	C2907	150	0	0	Coryell	AGRICULTURE - IRRIGATION
LEO LUEDTKE ET UX	C2907	237	0	0	Coryell	AGRICULTURE - IRRIGATION
DAN G DAVIDSON	C2908	22	0	0	Coryell	AGRICULTURE - IRRIGATION
RUDOLF DROSCHE	C2909	26	0	0	Coryell	AGRICULTURE - IRRIGATION
CARL DROSCHE	C2910	77	0	0	Coryell	AGRICULTURE - IRRIGATION
GLENN DIPPEL ET AL& JOHN SHAUD ET UX	C2911	74	0	0	Coryell	AGRICULTURE - IRRIGATION
PAT & MABEL RUTH GRIMES	C2914	18	0	0	Coryell	AGRICULTURE - IRRIGATION
MARSHALL JOE HANNA	C2933	46	0	0	Coryell	AGRICULTURE - IRRIGATION
ROBERT M SCOTT ET AL	C2934	66	0	0	Coryell	AGRICULTURE - IRRIGATION
JEAN ARMOR WHALEY	C2935	53.09	0	0	Coryell	AGRICULTURE - IRRIGATION

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A. B. COPELAND, JR.	C2201	197	0	0	Erath	AGRICULTURE - IRRIGATION
JACK BERRY	C2205	150	0	0	Erath	AGRICULTURE - IRRIGATION
H. W. NORTHCUTT	C2206	60	0	0	Erath	AGRICULTURE - IRRIGATION
ELVIS RAY STONE SR, ET AL	C2207	23	0	0	Erath	MUNICIPAL/DOMESTIC
B R FANNING	C2208	40	0	0	McLennan	AGRICULTURE - IRRIGATION
H. B. LANE	C2209	3	0	0	Erath	AGRICULTURE - IRRIGATION
RAYMOND L. JARRATT	C2210	92	0	0	Erath	AGRICULTURE - IRRIGATION
J. T. HICKS	C2211	85	0	0	Erath	AGRICULTURE - IRRIGATION
GREAT SOUTHERN RANCH INC	C2215	54	0	0	Erath	AGRICULTURE - IRRIGATION
CRAIG W. RAY	C2216	54	0	0	Erath	AGRICULTURE - IRRIGATION
JAMES F JOHNSON, ET UX	C2219	13	0	0	Erath	AGRICULTURE - IRRIGATION
HAROLD PACK	C2220	12	0	0	Erath	AGRICULTURE - IRRIGATION
KENNETH & BETTY YVON LESLEY	C2221	18	0	0	Erath	AGRICULTURE - IRRIGATION
HARM & ZWAANTINA TE VELDE TRST	C2222	110	0	0	Erath	AGRICULTURE - IRRIGATION
TY MURRAY	C2225	34	0	0	Erath	AGRICULTURE - IRRIGATION
T T FAIR ET UX	C2226	61	0	0	Erath	AGRICULTURE - IRRIGATION
CHARLIE S EVERETT & WIFE	C2227	60	0	0	Erath	AGRICULTURE - IRRIGATION
SWAN E RICHARDSON JR	C2228	60	0	0	Erath	AGRICULTURE - IRRIGATION
J B MCCONNELL	C2229	44	0	0	Erath	AGRICULTURE - IRRIGATION
TY MURRAY	C2230	76	0	0	Erath	AGRICULTURE - IRRIGATION
ESTATE OF C C WINTERS	C2231	42	0	0	Erath	AGRICULTURE - IRRIGATION
CHARLES A & ROBERT S ELLIOTT	C2232	16	0	0	Erath	AGRICULTURE - IRRIGATION
J W OGLE ET AL	C2233	18	0	0	Erath	AGRICULTURE - IRRIGATION
BRUCE E TODD	C2234	125	0	0	Erath	AGRICULTURE - IRRIGATION
7 M RANCH TRUST	C2235	8	0	0	Erath	AGRICULTURE - IRRIGATION
BRUCE E TODD	C2236	24	0	0	Erath	AGRICULTURE - IRRIGATION
MAX L GORDON & ELOISE GORDON	C2237	90	0	0	Erath	AGRICULTURE - IRRIGATION
JON DAVID MAYFIELD TRUST	C2238	231.89	0	0	Erath	AGRICULTURE - IRRIGATION
A. H. LINNE	C2239	32	0	0	Erath	AGRICULTURE - IRRIGATION

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A DWAIN MAYFIELD ET AL	C2240	137	0	0	Erath	AGRICULTURE - IRRIGATION
WAYNE PITTMAN, ET AL	C2241	33	0	0	Erath	AGRICULTURE - IRRIGATION
MRS W K RICHARDSON	C2242	40	0	0	Erath	AGRICULTURE - IRRIGATION
BEN E. ROBBINS	C2243	90	0	0	Erath	AGRICULTURE - IRRIGATION
DONALD MCLEAN	C2244	27	0	0	Erath	AGRICULTURE - IRRIGATION
DORIS S HEIZER	C2245	20	0	0	Erath	MUNICIPAL/DOMESTIC
DON MITCHELL ET AL	C2246	152	0	0	Erath	AGRICULTURE - IRRIGATION
BAR-TO-LO CORPORATION	C2247	35	0	0	Erath	DOMESTIC AND LIVESTOCK
ALWINA LUINE HEIZER HANCOCK	C2248	62	0	0	Erath	AGRICULTURE - IRRIGATION
THOMAS H. & DOLORES C. BENSON	C2249	19	0	0	Erath	AGRICULTURE - IRRIGATION
OTEY SHADDEN	C2250	4	0	0	Erath	AGRICULTURE - IRRIGATION
WANDA TRIMBLE	C2251	28	0	0	Erath	AGRICULTURE - IRRIGATION
J B PUTTY TRUSTEE	C2252	30	0	0	Erath	AGRICULTURE - IRRIGATION
GARY W DUNCAN ET AL	C2255	84.5	0	0	Erath	AGRICULTURE - IRRIGATION
ROBERT L BOYKIN ET AL	C2255	26.8	0	0	Erath	AGRICULTURE - IRRIGATION
WAYNE V DUNCAN ET UX	C2255	47.7	0	0	Erath	AGRICULTURE - IRRIGATION
MARGO JOY PARTAIN BATTERSHELL	C2267	0.7	0	0	Erath	AGRICULTURE - IRRIGATION
RONNIE W PARTAIN	C2267	0.3	0	0	Erath	AGRICULTURE - IRRIGATION
BARRY L. POLK, ET UX	C2268	11	0	0	Erath	AGRICULTURE
WALTER E & JOYCE SWINDLE	C2841	26.7	0	0	Erath	AGRICULTURE - IRRIGATION
BILLY JACK & PATSY TYUS	C2842	4.3	0	0	Erath	AGRICULTURE - IRRIGATION
DEBORAH VINES	C2843	29	0	0	Erath	AGRICULTURE - IRRIGATION
BOBBY JOHN FOSTER	C2844	29	0	0	Erath	AGRICULTURE - IRRIGATION
BOBBY JOHN FOSTER	C2845	27.5	0	0	Erath	AGRICULTURE - IRRIGATION
GUY G HALL	C2846	38	0	0	Erath	AGRICULTURE - IRRIGATION
G G HALL	C2847	13	0	0	Erath	AGRICULTURE - IRRIGATION
M D STEPHEN	C2848	31.5	0	0	Erath	AGRICULTURE - IRRIGATION
J & J DAIRY & BYRON JONES ET AL	C2849	31.5	0	0	Erath	AGRICULTURE - IRRIGATION
J A HULSEY	C2850	39.81	0	0	Erath	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
J V STEWART	C3506	3	3	3	Erath	AGRICULTURE - IRRIGATION
GAINES OIL COMPANY	C3514	7	0	0	Erath	AGRICULTURE - IRRIGATION
MERLE JO PARKS TRUSTEE	C3517	250	0	0	Erath	AGRICULTURE - IRRIGATION
KELLER-HYDEN INC	C3518	110	0	0	Erath	AGRICULTURE - IRRIGATION
GARY D BEARD ET AL	C3519	25	0	0	Erath	AGRICULTURE - IRRIGATION
BOBBY & LINDA SIKES	C3629	48	0	0	Erath	AGRICULTURE - IRRIGATION
QUAIL VALLEY ASSOCIATES, LLC	C4025	90	0	0	Erath	AGRICULTURE - IRRIGATION
COUNTY-OTHER, ERATH	C4026	20	0	0	Erath	MUNICIPAL/DOMESTIC
J L MCDANIEL	C4028	38	0	0	Erath	RECREATION
J L MCDANIEL	C4034	30	0	0	Erath	AGRICULTURE - IRRIGATION INDUSTRIAL
EARL R ALLISON	C4084	26.8	0	0	Erath	AGRICULTURE - IRRIGATION
DANE ALLISON ET UX	C4085	28	0	0	Erath	AGRICULTURE - IRRIGATION
GARY & BEVERLY LEWELLEN	C4086	15	0	0	Erath	AGRICULTURE - IRRIGATION
JACOB T. & LAURA DAMERON	C4089	31	0	0	Erath	AGRICULTURE - IRRIGATION
RICHARD T. LIETZ ESTATE	C4090	197	0	0	Erath	AGRICULTURE - IRRIGATION
KENNETH LESLEY	C4091	360	0	0	Erath	DOMESTIC AND LIVESTOCK
ROBERT D. ADAMS, SR.	C4092	6	0	0	Erath	AGRICULTURE - IRRIGATION
KENNETH & BETTY YVON LESLEY	P3939	98	98	98	Erath	AGRICULTURE - IRRIGATION RECREATION
BRUCE E TODD	P4124	274.8	0	0	Erath	AGRICULTURE - IRRIGATION
SUN EXPLORATION&PROD CO ET AL	C3719	165	0	0	Fisher	AGRICULTURE - IRRIGATION
BILLIE JOE MCCOMBS	C3720	44	0	0	Fisher	AGRICULTURE - IRRIGATION
BRUCE & PATSY K COX	C3721	126	0	0	Fisher	AGRICULTURE - IRRIGATION
MARJORIE HAMBRIGHT	C4116	2	0	0	Fisher	AGRICULTURE - IRRIGATION
DR HELEN F YEATS	C4117	1	0	0	Fisher	AGRICULTURE - IRRIGATION INDUSTRIAL MINING MUNICIPAL/DOMESTIC

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
ZANNA H ANDERSON	C4118	8	0	0	Fisher	AGRICULTURE - IRRIGATION
ALFRED L. CAREY ET UX	C4119	5	0	0	Fisher	RECREATION
MAX D. CARRIKER ESTATE ETAL	C4120	74	0	0	Fisher	AGRICULTURE - IRRIGATION
WILLARD L. BURK	C4121	263	0	0	Fisher	RECREATION
MAX D. CARRIKER ESTATE	C4122	60	0	0	Fisher	AGRICULTURE - IRRIGATION
FREDDIE MAC STUART	C4123	17	14	14	Fisher	RECREATION
ALFRED S. WALDROP, ETAL	C4124	55	0	0	Fisher	AGRICULTURE - IRRIGATION
BOYD H. LAKEY	C4126	55	0	0	Fisher	AGRICULTURE - IRRIGATION
TERRY T POSEY ET UX	C4206	40	0	0	Fisher	AGRICULTURE - IRRIGATION
W E PUTTY	C2254	65	0	0	Hamilton	AGRICULTURE - IRRIGATION
RANDOLPH M ROTEN	C2258	32	0	0	Hamilton	AGRICULTURE - IRRIGATION
F MELVIN JOHNSON	C2259	112	0	0	Hamilton	AGRICULTURE - IRRIGATION
F. MELVIN & HELENE JOHNSON	C2260	56	0	0	Hamilton	AGRICULTURE - IRRIGATION
CECIL PARKS	C2261	8	0	0	Hamilton	AGRICULTURE - IRRIGATION
VERNON CLARK BEAIRD	C2262	30	0	0	Hamilton	MUNICIPAL/DOMESTIC
WILLIAM VAN ZANDT SLOAN & WIFE	C2263	65	0	0	Hamilton	AGRICULTURE - IRRIGATION
WILLIAM VAN ZANDT SLOAN & WIFE	C2264	45	0	0	Hamilton	AGRICULTURE - IRRIGATION
DEREL FILLINGIM	C2265	268	0	0	Hamilton	MINING
BILLY G AND IRIS S HODGES	C2287	7	0	0	Hamilton	AGRICULTURE - IRRIGATION
SHANNON LAIRD HODGES ET AL	C2288	3.5	0	0	Hamilton	MUNICIPAL/DOMESTIC
CHARLES E. STEVENS	C2298	104	0	0	Hamilton	AGRICULTURE - IRRIGATION
DON GROMATZKY	C2830	30	0	0	Hamilton	AGRICULTURE
HARTENSE NORTH	C2835	294	0	0	Hamilton	AGRICULTURE - IRRIGATION
WADE N CARAWAY	C2837	183.4	0	0	Hamilton	AGRICULTURE - IRRIGATION
ED A ROSS ET AL	C2838	37	0	0	Hamilton	AGRICULTURE - IRRIGATION
ED A ROSS ET AL	C2839	40	0	0	Hamilton	AGRICULTURE - IRRIGATION
ERNEST L NEWSOM	C2854	44	0	0	Hamilton	AGRICULTURE - IRRIGATION
LARRY WAYNE ADAMS	C2855	91	0	0	Hamilton	AGRICULTURE - IRRIGATION
JACK D GRAHAM	C2856	1	0	0	Hamilton	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
J L ROBERSON JR ET AL	C2857	153	0	0	Hamilton	AGRICULTURE - IRRIGATION
J L ROBERSON JR ET AL	C2858	18	0	0	Hamilton	AGRICULTURE - IRRIGATION
LARRY A DUNN ET UX	C2859	98	0	0	Hamilton	AGRICULTURE - IRRIGATION
EARL& ORENA KAVANAUGH & MAURINE K WATTS	C2860	15	0	0	Hamilton	AGRICULTURE - IRRIGATION
ACY L WATSON	C2861	1	0	0	Hamilton	AGRICULTURE - IRRIGATION
TOM J THOMPSON	C2862	15	0	0	Hamilton	AGRICULTURE - IRRIGATION
RIVERSIDE ACQUISITIONS LLC	C2863	43	0	0	Hamilton	AGRICULTURE - IRRIGATION
K A SPARKS ET AL	C2864	185	0	0	Hamilton	AGRICULTURE - IRRIGATION
RIVERSIDE ACQUISITIONS LLC	C2865	169	0	0	Hamilton	AGRICULTURE - IRRIGATION
RIVERSIDE ACQUISITIONS LLC	C2866	82	0	0	Hamilton	AGRICULTURE - IRRIGATION
GERALDINE D WARREN ET AL	C2867	4	4	4	Hamilton	AGRICULTURE - IRRIGATION
ARVORD M ABERNETHY	C2868	50	42	42	Hamilton	AGRICULTURE - IRRIGATION
BETTY JEAN HARRIS TOOLEY	C2869	105	0	0	Hamilton	AGRICULTURE - IRRIGATION
HAMILTON	C2870	614	0	0	Hamilton	MUNICIPAL/DOMESTIC
SETH THOMAS MOORE, SR., ET AL	C2871	72	0	0	Hamilton	AGRICULTURE - IRRIGATION
SETH MOORE	C2872	2.5	0	0	Hamilton	INDUSTRIAL
R F MANNING	C2873	20	0	0	Hamilton	AGRICULTURE - IRRIGATION
HARRIET MEAD HAVENS	C2874	85	0	0	Hamilton	AGRICULTURE - IRRIGATION
LEONARD T WARLICK ET UX	C2875	54	0	0	Hamilton	AGRICULTURE - IRRIGATION
CHARLES CRAIG JR	C2876	15	0	0	Hamilton	AGRICULTURE - IRRIGATION
THOMAS E MURDOCK ESTATE	C2877	150	0	0	Hamilton	AGRICULTURE - IRRIGATION
O C & WILLIE NADINE MARSHALL	C2878	51.88	0	0	Hamilton	AGRICULTURE - IRRIGATION
PAUL F MCCLINTON	C2879	139	0	0	Hamilton	AGRICULTURE - IRRIGATION
BILLY R FISHER ET UX	C2880	19	0	0	Hamilton	AGRICULTURE - IRRIGATION
MOODY E COURTNEY	C2881	124	0	0	Hamilton	AGRICULTURE - IRRIGATION
JOHN C COURTNEY ET UX	C2882	196	0	0	Hamilton	AGRICULTURE - IRRIGATION
DAVID C COURTNEY	C2883	5	0	0	Hamilton	AGRICULTURE - IRRIGATION
JOHN C COURTNEY ET UX	C2884	200	0	0	Hamilton	AGRICULTURE - IRRIGATION

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
MOODY E COURTNEY	C2885	71	0	0	Hamilton	AGRICULTURE - IRRIGATION
W J & ANITA FAYE HOPPER	C2921	28	0	0	Hamilton	AGRICULTURE - IRRIGATION
LEE R HOPPER	C2922	9	0	0	Hamilton	AGRICULTURE - IRRIGATION
BILLY H ROBERTS ET UX	C2923	32.5	0	0	Hamilton	AGRICULTURE - IRRIGATION
HENRY MARWITZ ET AL	C2923	12.5	0	0	Hamilton	AGRICULTURE - IRRIGATION
JERRY W & BONNIE JEAN HOPPER	C2924	59	0	0	Hamilton	AGRICULTURE - IRRIGATION
WILLIAM JACKSON WISDOM	C2926	13	0	0	Hamilton	AGRICULTURE - IRRIGATION
ELVIN L GENTRY ET UX	C2927	9	0	0	Hamilton	AGRICULTURE - IRRIGATION
GARY L LUNDBERG ET UX	C2928	13	0	0	Hamilton	AGRICULTURE - IRRIGATION
REGINALD & NONA FA WIEDEBUSCH	C2929	4	0	0	Hamilton	AGRICULTURE - IRRIGATION
CYRUS B CATHEY ESTATE	C2930	31	0	0	Hamilton	AGRICULTURE - IRRIGATION
RONNAL S BEASLEY ET UX	C2931	52	0	0	Hamilton	AGRICULTURE - IRRIGATION
JAMES BILLINGSLEY	C2932	6	0	0	Hamilton	AGRICULTURE - IRRIGATION
CHESLEY J AUTEN	C4315	30	0	0	Hill	AGRICULTURE - IRRIGATION
B W & SARA J. BOWERS	C4316	75	0	0	Hill	AGRICULTURE - IRRIGATION
BIRCH WILFONG	C4319	34	0	0	Hill	AGRICULTURE - IRRIGATION
HERMAN L HORN	C4320	84	0	0	Hill	AGRICULTURE - IRRIGATION
WALTON K BALLEW	C4321	337	0	0	Hill	AGRICULTURE - IRRIGATION
ALTHIA B G BURNETTE	C4322	175	0	0	Hill	AGRICULTURE - IRRIGATION
DOCK L BURNETTE	C4323	173	0	0	Hill	AGRICULTURE - IRRIGATION
VANESSA A GILPIN	C4324	305	0	0	Hill	AGRICULTURE - IRRIGATION
HILLSBORO COUNTRY CLUB	C4333	8	6	6	Hill	AGRICULTURE - IRRIGATION
GEORGE W. MCNIEL, ET AL	C4334	1	0	0	Hill	AGRICULTURE - IRRIGATION
ALPHONS D URBANOVSKY	C4335	40	0	0	Hill	AGRICULTURE - IRRIGATION
ALCOA	P5816	650	0	0	Lee	DOMESTIC AND LIVESTOCK
SUN EXPLORATION&PRODUCTION CO	C3722	565	0	0	Stonewall	AGRICULTURE - IRRIGATION
ASPERMONT	P5162	8	0	0	Stonewall	AGRICULTURE - IRRIGATION
PHILLIPS PETROLEUM CO	P5242	1552	0	0	Stonewall	AGRICULTURE - IRRIGATION
CITATION 1994 INVEST LTD PART	P5282	235	0	0	Stonewall	MINING

Owner	Water Right Permit/ Certificate Number	Authorized Permitted Diversion (acre-feet/year)	2030 Minimum Annual Diversion / Supply Reliability	2080 Minimum Annual Diversion / Supply Reliability	County	Use
WALTER EXPLORATION INC	P5692	67	0	0	Stonewall	RECREATION
FORT HOOD	C2936	12000	12000	12000	Bell	AGRICULTURE - IRRIGATION

APPENDIX G ECONOMIC IMPACTS OF NOT MEETING NEEDS

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Appendix G: Economic Impacts of Not Meeting Needs

This section will be completed within the Final 2026 Brazos G Regional Water Plan using information to be provided by the TWDB.

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APPENDIX H

WRITTEN COMMENTS RECEIVED ON THE INITIALLY PREPARED PLAN

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Appendix H: Written Comments Received on the Initially Prepared Plan

The contents of this chapter will be revised for the purposes of the Final 2026 Brazos G Regional Water Plan to include comments received.

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APPENDIX I

REQUESTED POPULATION AND WATER DEMAND REVISIONS

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Appendix I: Requested Population and Water Demand Revisions

I-1. Region G – Proposed Revision Request to Draft 2026 Municipal Projections.

I-2. Brazos G – Proposed Revision Request to Draft 2026 Non-Municipal Projections.

I-3. TWDB Summary of the Brazos Regional Water Planning Group (Region G) Official Revision Request & Executive Administrator Recommendation for Board Consideration (October 20, 2023).

I-4. TWDB Details on Review of Brazos G Regional Water Planning Group Proposed Revision Request to Draft 2026 Municipal Projections.

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8911 North Capital of Texas Highway
Building 2, Suite 2200 / Austin, Texas 78759
P 512-453-5383
carollo.com

August 11, 2023

Mr. Jeff Walker
Executive Administrator
Texas Water Development Board
1700 N. Congress Ave.
Austin, TX 78711-3231

Subject: Region G – Proposed Revision Request to Draft 2026 Municipal Projections

Dear Mr. Walker:

The Draft 2026 Region G Water Plan municipal population and demand projections prepared by the Texas Water Development Board (TWDB) have been reviewed by the Brazos G Regional Water Planning Group (Brazos G RWPG; Region G) and its consultants. Attached are the required spreadsheets, documenting the proposed modifications to these projections, as well as the supporting documentation as required under the Texas Water Code.

Upon review of the Draft 2026 projections, comments have been received by Water User Groups (WUGs) and Wholesale Water Providers (WWPs) (see attachments) requesting modifications to the population, per capita usage, and/or municipal water demand projections. Upon receipt of these documented requests, and review and presentation from the technical consultant, at its July 27, 2023, meeting, the Brazos G RWPG formally provided unanimous approval authorizing the consultant to populate and distribute to the TWDB the Brazos G RWPG's requested population, per capita usage, and associated demand adjustments consistent with the information provided at this meeting by the consultants, and approved for the consultants to coordinate with the Chair and Administrator to submit further revisions and make responses to revision requests by TWDB.

If any additional information is necessary, please feel free to give me a call at your convenience, and we will respond as appropriate.

Sincerely,
CAROLLO ENGINEERS, INC.

Tony L. Smith, P.E.
Project Manager

tls

Enclosures: Digital Attachments

cc: Mr. Lann Bookout
Mr. Wayne Wilson
Ms. Pam Hannemann

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Acronyms and Abbreviations

Acronym/Abbreviation	Description
ac-ft	acre-feet
ac-ft/yr	acre-feet per year
Brazos G RWPG or Region G	Brazos G Regional Water Planning Group
CCN	Certificate of Convenience and Necessity
CQR	Count Question Resolution
CRU	consolidated reporting unit
DA	demographic analysis
FVWSC	Files Valley Water Supply Corporation
GPCD	gallons per capita daily
MGD	million gallons per day
MUD	Municipal Utility District
PES	Post-Enumeration Survey
PWS	Public Water Supply
RWPG	Regional Water Planning Group
SUD	Special Utility District
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TDC	Texas Demographic Center
TSTC	Texas State Technical College
TWDB	Texas Water Development Board
WCID	Water Control and Improvement District
WSC	Water Supply Corporation
WSID	Water, Sewer, Irrigation, and Drainage
WUG	Water User Group
WWP	Wholesale Water Provider

Brazos G Supporting Analyses

The rationale and supporting analyses for the Brazos G RWPG's requested revisions to the Draft 2026 municipal population and demand projections are provided herein. These requests ascribe to the contractually required criteria for adjustment identified within Section 2.2 of the First Amended General Guidelines for Development of the 2026 Regional Water Plans (October 2022), referred to hereafter as the Exhibit C Guidelines. The Texas Administrative Code is referred to herein as TAC, for brevity. All amounts documented herein are in acre-feet (ac-ft), unless otherwise noted. Compound annual growth rates are referred to herein simply as the "growth rate," unless otherwise noted.

The Exhibit C Guidelines note that, "RWPGs may request revisions to Board-adopted projections if the request demonstrates the projections no longer represent a reasonable estimate of anticipated conditions based on changed conditions or new information in accordance with 31 TAC §357.31(e)(2)." The Brazos G RWPG's general approach to reviewing the Draft 2026 Municipal Projections initiated with regional analyses of historical population, per capita usage, and water demands for the primary WUGs located within Region G. After these regional analyses, the Brazos G RWPG surveyed WUGs and Wholesale Water Providers (WWPs) within the region via email and phone, in an effort to obtain adequate input and documentation to support the requests herein.

Provided in the following sections are descriptions of the Brazos G RWPG's regional analyses, identifying the specific Exhibit C Guidelines for which the analysis and requests apply. For those WUGs where supporting documentation identifying a specific request for that WUG has been identified, the rationale for that WUG is summarized and supporting documentation incorporated by digital attachment. Regional analyses and requests are then documented for per capita usage and municipal water demand, incorporating the requests sequentially consistent with the methodology for determining the municipal demand projections.

A response frequently expressed throughout the ongoing engagement with WUGs within Region G is the general concern regarding the significant decreases observed in many of the projected municipal populations when compared to those amounts adopted for the purposes of the 2021 Regional Water Plan. Further, a significant number of WUGs have expressed that recent, rapid growth and present populations already exceed the Draft 2026 Projections. The Brazos G RWPG shares these concerns, generally commenting that there are areas of the region (e.g., along the I-35 and SH-130 corridors) experiencing rapidly changing conditions that do not appear to be adequately reflected in the Draft 2026 projections. Further, planning for future declines in population – particularly in rural areas – may not complement a conservative approach to water planning.

When totaled, the requests of the Brazos G RWPG documented herein result in an overall requested *increase to the regional total*. As noted later herein, the U.S. Census Bureau has indicated a possible Census undercount took place in Texas (and thereby all counties within Region G). One WUG (the City of Hillsboro) reports to be starting an action to pursue a request for a correction with the U.S. Census Bureau. Many WUGs have indicated that recent population growth is significantly different than the Draft population projections, in amounts exceeding the capacity for adjustments to the reduced Draft projections elsewhere in the region (e.g., County-Other reductions). The Brazos G RWPG has attempted to make such adjustments where reasonable, but the requests nevertheless result in an overall increase to the region's municipal population projections.

The Brazos G RWPG finds that the information provided herein as requested meets the criteria for adjustment and data requirements identified in Exhibit C, Section 2.2.1.2, Criteria 1 and 2, and Data requirement 3. Criteria 1 states, "A possible Census undercount took place in a county located with the region and action is currently being pursued to request a U.S. Census Bureau correction." Criteria 2 states, "The most recent population growth rate (2015-2020) for the whole region is significantly different than the draft regional projections." Data requirement 3 states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to the net total regional-level population projection."

Regional Population Analyses

Mixed Migration Scenario Analysis

As noted in the TWDB's reported documentation for the development of the Draft 2026 municipal projections:

> "Draft county population projections are based on the TDC's [Texas Demographic Centers] 2022 county-level population projections. Such projections are based on recent and projected demographic trends, including the birth rates, mortality rates, and net migration rates of population groups and defined by age, gender, and race/ethnicity. Population projections represent permanent residents, and not seasonal or transient populations. This method for developing population projections is known as the cohort component method and is performed by TDC using a model.
>
> The TDC generally develops county-level population projections under three migration scenarios:
>
> - zero migration: no net migration (natural growth only),
> - 1.0 migration: net migration rates of 2010 to 2020 ("full-migration scenario"), and
> - 0.5 migration: 2010 to 2020 migration rates halved ("half-migration scenario").

The TWDB used the 1.0-migration scenario to extend the TDC's projections through 2080 and to develop WUG-level projections. The TWDB provided the Brazos G RWPG with the county- and WUG-level projections for both the Draft 2026 1.0-migration scenario and the 0.5-migration scenario. The Brazos G RWPG comparatively assessed the 1.0- and 0.5-migration scenarios at the county level to determine the migration scenario resulting in the greater projection of population, to evaluate the extent of a more conservative estimation of population growth.

Through these comparisons, it was observed that the projected trends based on the 0.5-migration scenario appear less sensitive to the data upon which they were based than the trends of the 1.0-migration scenario, as evidenced for the selected counties in the Region G planning area shown in Figures 1 and 2.

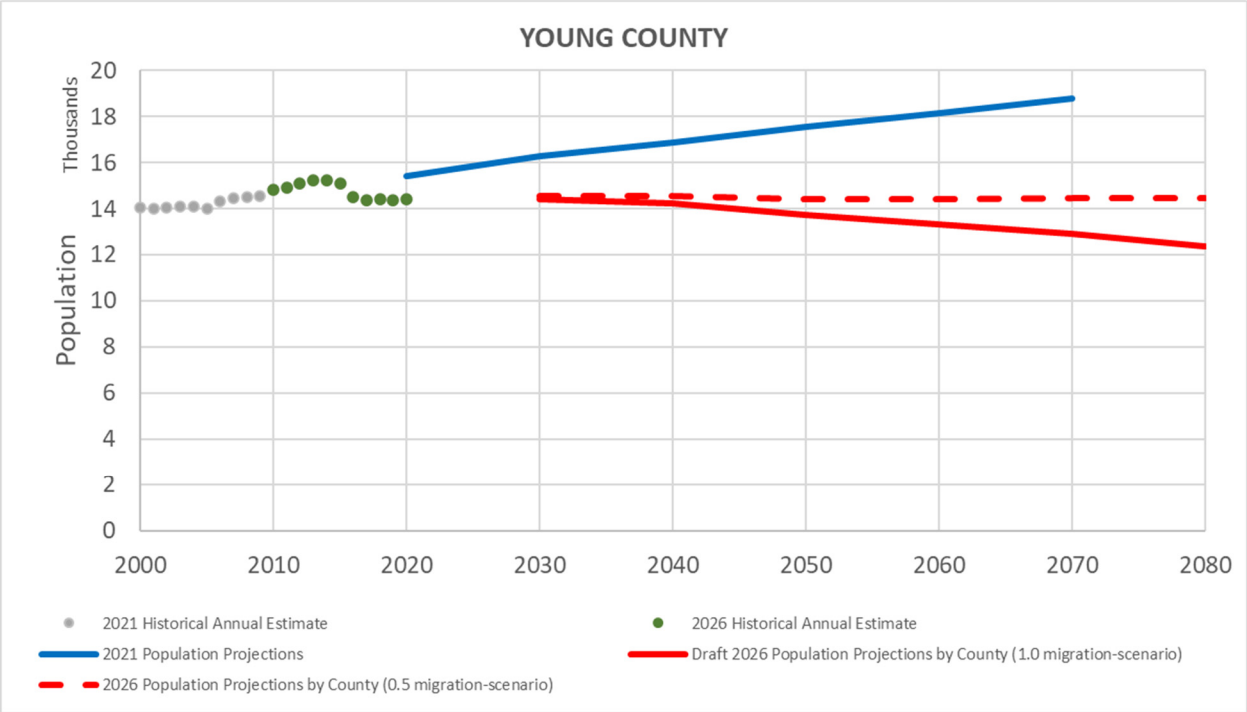

Figure 1 Comparisons of Historical and Projected Populations using 1.0- and 0.5- Migration Scenarios and the Adopted 2021 Region G Plan Population Projection for Young County (2000 – 2080)

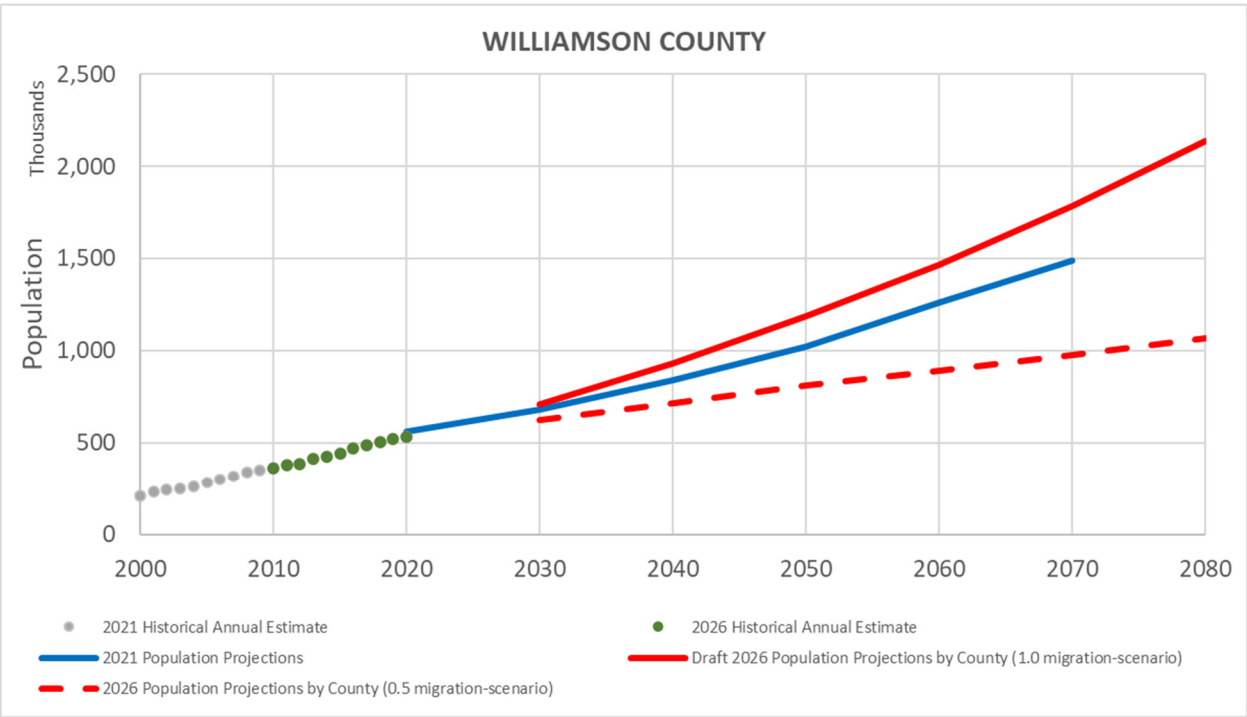

Figure 2 Comparisons of Historical and Projected Populations using 1.0- and 0.5- Migration Scenarios and the Adopted 2021 Region G Plan Population Projection for Williamson County (2000 – 2080)

Generally, counties with significant decreasing trends in the estimated historical population produced higher (but still decreasing) population projections when using the 0.5-migration scenario. Counties with significant increasing trends in the estimated historical population produced higher population projections when using the 1.0-migration scenario.

The Brazos G RWPG thus first requests the mixing of differing migration rates at the county level within Region G, as the mixed scenario (identified in Table 1 by county) produces a greater, more conservative estimation of projected population. For more rapidly growing counties, the 1.0-migration scenario's higher projections allow some accommodation for continued near-term growth, which is consistent with the TDC's suggested use for near-term planning uses. For counties with estimated declining populations, use of the 0.5-migration scenario allows for some additional conservatism through avoiding over-estimation of long-term decreases in population. The 0.5-migration scenario is also recommended by the TDC for long-term planning; thus, the use of this migration scenario remains consistent with the overall goals of regional planning.

Table 1 Results of Comparison of Draft Projected Municipal Population utilizing 1.0- and 0.5- Migration Scenarios for Counties in Region G

County	Requested Scenario		County	Requested Scenario
BELL	1		KNOX	0.5
BOSQUE	1		LAMPASAS	1
BRAZOS	1		LEE	1
BURLESON	1		LIMESTONE	0.5
CALLAHAN	1		MCLENNAN	1
COMANCHE	0.5		MILAM	0.5
CORYELL	0.5		NOLAN	0.5
EASTLAND	0.5		PALO PINTO	1
ERATH	1		ROBERTSON	0.5
FALLS	0.5		SHACKELFORD	0.5
FISHER	0.5		SOMERVELL	1
GRIMES	1		STEPHENS	0.5
HAMILTON	1		STONEWALL	0.5
HASKELL	0.5		TAYLOR	1
HILL	1		THROCKMORTON	0.5
HOOD	1		WASHINGTON	1
JOHNSON	1		WILLIAMSON	1
JONES	0.5		YOUNG	0.5
KENT	1			

This request is based on the sixth data requirement for adjustment identified in the Exhibit C Guidelines for county-level population projections (Section 2.2.1.3, Item 6) is, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to the net total county-level population projection." The Brazos G RWPG further notes that with the significant change in the approach for developing the draft population projections, the requested mixing of the 0.5- and 1.0-migration scenarios minimizes the decreases in projected populations while continuing to employ data provided by the TWDB and TDC. The Brazos G RWPG finds that this approach is a reasonable basis for revision to the draft population projections at the county-level.

Demographic Undercount Analysis

The Brazos G RWPG next evaluated the extent of the estimated undercount in the 2020 Census. Since the U.S. Census Bureau's development of the 2020 Census, it has subsequently released its Demographic Analysis (DA)[1] and estimated undercount and overcount rates by state and the District of Columbia from their Post-Enumeration Survey (PES)[2]. One of the key findings of these efforts by the U.S. Census Bureau is the determination that the State of Texas is estimated to have had an undercount of -1.92%. A subsequent evaluation of this information has been performed and reported by the Pew Research Center[3]. This study identified census errors generally larger in 2020 than in 2010, estimating the % net undercount or overcount of household population by demographic. Undercounts in the 2020 Census were identified for both Hispanic (-5.0%) and Black (-3.3%) demographics.

The Brazos G RWPG thus performed an analysis to estimate decadal adjustments to the population projections for all WUGs within the region. Demographic data for 2022 published by the U.S. Census Bureau have been compiled for each county within the region[4]. The percentage of each county's Hispanic and Black populations are shown in Table 2.

Table 2 Percentage of Hispanic and Black Demographics by County as reported by U.S. Census Bureau (2022), with Applicable Requested Migration Scenario

County	Requested Migration-Scenario	Hispanic Population %	Black Population %
BELL	1.0	26.8%	24.8%
BOSQUE	1.0	20.4%	2.5%
BRAZOS	1.0	26.8%	11.4%
BURLESON	1.0	22.5%	11.3%
CALLAHAN	1.0	11.9%	2.2%
COMANCHE	0.5	29.9%	1.5%
CORYELL	0.5	20.3%	17.7%
EASTLAND	0.5	18.0%	2.4%

[1] https://www.census.gov/newsroom/press-releases/2020/2020-demographic-analysis-estimates.html
[2] https://www.census.gov/newsroom/press-releases/2022/pes-2020-undercount-overcount-by-state.html
[3] https://www.pewresearch.org/short-reads/2022/06/08/key-facts-about-the-quality-of-the-2020-census/
[4] https://www.census.gov/quickfacts/fact/table/US/PST045222

County	Requested Migration-Scenario	Hispanic Population %	Black Population %
ERATH	1.0	22.2%	2.2%
FALLS	0.5	26.1%	23.2%
FISHER	0.5	29.9%	4.5%
GRIMES	1.0	25.2%	14.0%
HAMILTON	1.0	15.0%	1.3%
HASKELL	0.5	28.6%	5.7%
HILL	1.0	22.7%	6.5%
HOOD	1.0	13.8%	1.6%
JOHNSON	1.0	25.1%	5.7%
JONES	0.5	28.7%	13.3%
KENT	1.0	20.9%	1.2%
KNOX	0.5	34.9%	6.3%
LAMPASAS	1.0	20.8%	4.7%
LEE	1.0	25.6%	9.9%
LIMESTONE	0.5	23.5%	17.0%
MCLENNAN	1.0	27.6%	14.9%
MILAM	0.5	27.4%	9.2%
NOLAN	0.5	40.1%	5.5%
PALO PINTO	1.0	21.0%	2.7%
ROBERTSON	0.5	22.9%	19.4%
SHACKELFORD	0.5	12.9%	2.6%
SOMERVELL	1.0	17.9%	1.2%
STEPHENS	0.5	25.9%	3.6%
STONEWALL	0.5	20.4%	3.6%
TAYLOR	1.0	26.0%	8.6%
THROCKMORTON	0.5	13.5%	1.1%
WASHINGTON	1.0	17.9%	16.6%
WILLIAMSON	1.0	25.3%	7.9%
YOUNG	0.5	20.5%	1.8%

To estimate a projected population adjustment to account for the demographic undercount for each WUG, these county-level percentages were first multiplied by the *requested* WUG population projections over the 2030 – 2080 period. The determination of which population projection was multiplied was dependent upon whether the portion of the WUG was in a county where the 1.0-migration scenario is used, or in a county where the 0.5-migration scenario has been requested. It has been assumed herein that that these county-level demographic percentages are sufficient for the purposes of regional water planning, as demographic data at the WUG level are not readily available.

These WUG-level projected populations for the Hispanic and Black demographics over the 2030 – 2080 period were then multiplied by the accordant estimates of the percentage of the undercount, i.e., 5.0% and 3.3%, respectively, producing an estimate of the projected population undercount for each WUG over the planning period. These results represent the Brazos G RWPG's requested incremental adjustments necessary to account for the estimated demographic undercount for each WUG and have been incorporated into the Digital Attachment submitted with this document. A summary of these adjustments is presented by county in Table 3.

Table 3 Summary by County of Requested Adjustments to Address Estimated Demographic Undercounts (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
BELL	8,958	9,859	10,550	11,006	11,518	12,091
BOSQUE	200	194	186	181	173	166
BRAZOS	5,046	5,692	6,666	7,864	9,213	10,731
BURLESON	274	275	274	272	271	268
CALLAHAN	96	94	94	92	92	89
COMANCHE	207	204	198	194	193	190
CORYELL	1,398	1,425	1,440	1,429	1,416	1,403
EASTLAND	173	169	162	158	153	148
ERATH	567	612	667	739	819	911
FALLS	334	317	299	280	264	241
FISHER	57	55	54	53	52	52
GRIMES	545	580	606	630	656	686
HAMILTON	65	63	61	61	59	58
HASKELL	86	85	82	82	80	80
HILL	506	521	531	541	554	566
HOOD	526	592	656	726	805	895
JOHNSON	2,965	3,342	3,718	4,058	4,434	4,864
JONES	360	346	334	322	306	289
KENT	8	8	8	8	9	9
KNOX	62	62	62	61	59	58
LAMPASAS	274	284	284	281	279	274
LEE	297	300	296	291	284	277
LIMESTONE	378	366	353	339	326	311
MCLENNAN	5,384	5,840	6,224	6,629	7,100	7,615
MILAM	409	404	387	375	362	346
NOLAN	318	315	310	304	296	289
PALO PINTO	334	334	331	329	327	326
ROBERTSON	293	287	278	264	255	242

County	2030	2040	2050	2060	2070	2080
SHACKELFORD	20	18	18	17	15	14
SOMERVELL	92	94	96	96	94	93
STEPHENS	126	122	120	115	113	112
STONEWALL	14	11	11	10	10	9
TAYLOR	2,485	2,690	2,860	3,045	3,251	3,481
THROCKMORTON	9	9	8	6	6	6
WASHINGTON	526	531	532	529	526	524
WILLIAMSON	10,842	14,175	18,095	22,384	27,209	32,629
YOUNG	127	127	124	125	124	125
Grand Total	44,361	50,402	56,975	63,896	71,703	80,468

Comparisons of the total regional population projections are presented in Table 4 and Figure 3, showing the 1.0- and 0.5-migration scenario projections along with the projected total regional populations when using the mixed migration rates varying by county. It is noted that use of the mixed migration rates by county produces a greater projected population for the region than the Draft projections based on the 1.0-migration scenario.

Table 4 Comparison of Total Regional Population Projections using Draft 2026 1.0-Migration Scenario, 0.5 Migration Scenario, Mixed Migration Scenarios by County, and Mixed Scenarios with Demographic Undercount Adjustments by County (2030 – 2080)

Projection	2030	2040	2050	2060	2070	2080
1.0-Migration Scenario (Draft 2026)	2,703,905	3,074,453	3,481,252	3,913,803	4,400,096	4,946,811
0.5-Migration Scenario (Draft 2026)	2,548,954	2,734,623	2,902,428	3,049,002	3,202,974	3,364,720
Mixed Migration Scenarios by County	2,705,512	3,080,630	3,493,406	3,932,240	4,426,035	4,981,643
Mixed Migration Scenarios with Adjustments for Demographic Undercounts by County	2,749,873	3,131,032	3,550,381	3,996,136	4,497,738	5,062,111

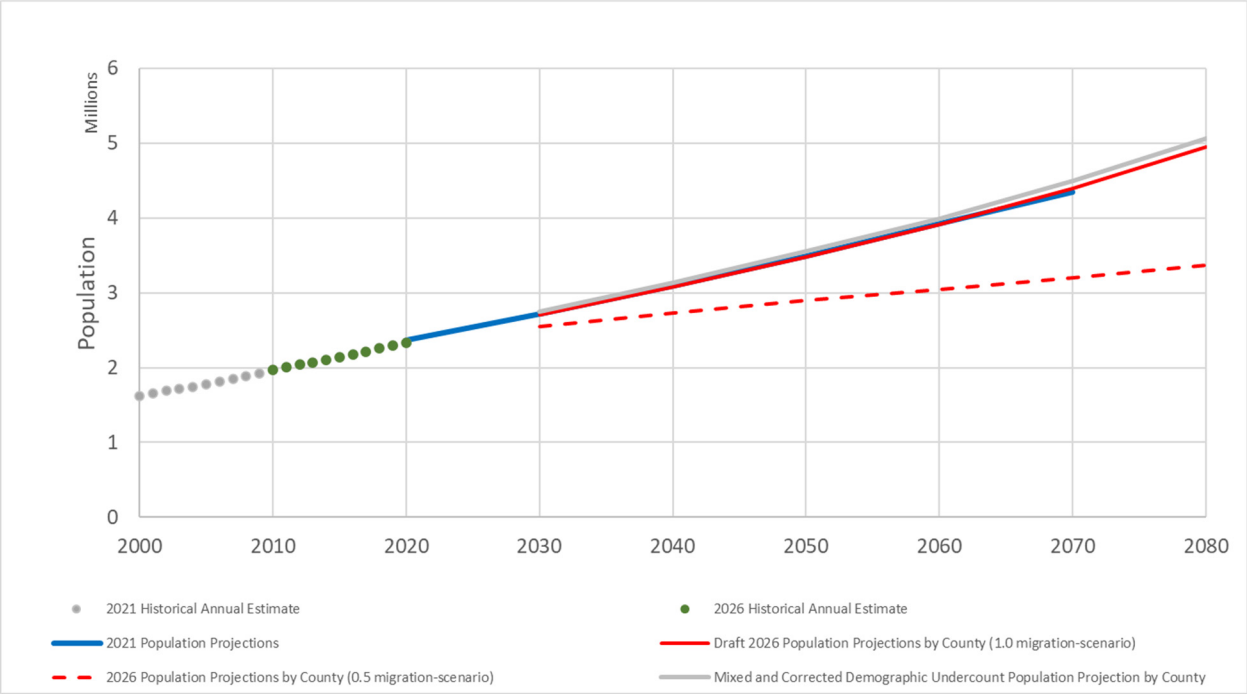

Figure 3 Comparisons of Historical and Projected Populations from the Draft 2026 1.0-Migration Scenario, 0.5- Migration Scenario, the Adopted 2021 Plan, and the Mixed Scenario by County with Demographic Undercount Adjustments for Region G (2000 – 2080)

The regional total populations based on the mixed migration rates with the adjustments for demographic undercounts by county shown in Table 4 are *not* the final requested amounts. They serve as the requested basis upon which additional modifications are requested based on WUG-specific revision requests relating to the draft municipal population projections that have been received by the Brazos G RWPG over the course of its engagement of WUGs and WWPs within the region.

The Brazos G RWPG has WUG-specific requests for 56 WUGs generated by requests from WUGs, WUG sellers, and WWPs within the region to revise the Draft 2026 municipal population projections within 17 counties in the region. Including the Brazos G RWPG's requests for County-Other WUGs, there are a total of 64 WUG-specific revision requests documented in the following sections. Consideration of those WUGs' requests, the supporting documentation, and the Brazos G RWPG's accordant analyses and requests are reported by county in the following sections. Where a WUG spans multiple counties, the supporting information is provided in the WUG's primary county section, with subsequent requested portions reported in the WUGs' other counties. Information pertaining to a WUG's portion in a region outside of the Brazos G Region is identified for consideration of other RWPGs, and must be supported by the appropriate RWPG in coordination with the TWDB.

Summary tables for each county that are provided in the next section are intended to summarize the incremental components of the requests at the county level, with WUG-specific requests included.

Bell County Summary of Requested Revisions

In addition to the adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Bell County, as shown in Table 5:

Table 5 Summary of Requested Revisions to Population Projections for Bell County (2030 – 2080)

Bell	2030	2040	2050	2060	2070	2080
2026 Draft	415,012	456,767	488,753	509,836	533,539	560,187
Demographic Undercount Adjustment	829	894	942	976	1,003	1,029
WUG-Specific Requests	47,094	69,241	96,513	130,385	160,804	189,448
Requested Population Projections	**462,935**	**526,902**	**586,208**	**641,197**	**695,346**	**750,664**
Net County Increase	47,923	70,135	97,455	131,361	161,807	190,477

The Brazos G RWPG received sixteen requests for revisions to the draft population projections for WUGs within Bell County: 439 WSC, Bell County WCID No. 1, Bell County WCID No. 3, Belton, Elm Creek WSC, Fort Cavazos (formerly Hood), Georgetown, Harker Heights, Holland, Jarrell Schwertner CRU, Kempner WSC, Killeen, Morgans Point Resort, Temple, the Grove WSC, and Troy. Based on the information provided by the WUGs, the Brazos G RWPG requests revisions to the draft population projections as described in the following sections.

439 Water Supply Corporation

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone on August 2, 2023; attendees included Mr. Richard Garrett, General Manager for Bell County WCID No. 1; a technical consultant representing Bell County WCID No. 1; and Mr. Brad Brunett, Central and Lower Basin Regional Manager for the Brazos River Authority (BRA). Documentation was provided in subsequent emails (see Digital Attachment/ Bell/ BellCounty_MasterPlan_FINAL.pdf). Mr. Garrett shared a Master Plan that estimates future population and water demand for each of Bell County WCID No. 1 wholesale customers, including 439 WSC, through 2070. BRA incorporated this master plan as the basis for their Integrated Water Resources Plan (IWRP), which extended the projections to 2080. Mr. Brunett shared a table of values from the IWRP via email.

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population projections are consistent with the Bell County WCID No. 1 Water System Master Plan and BRA's Integrated Water Resources Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on data and information provided by Bell County WCID No. 1 and BRA.

Table 6 Summary of Requested Revisions to Population Projections for 439 WSC in Bell County (2030 – 2080)

439 WSC		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	6,795	7,270	7,633	7,847	8,091	8,367
	Requested Population Projections	**12,327**	**14,490**	**16,700**	**18,961**	**21,285**	**23,609**

This request is based on data provided by Bell County WCID No. 1 and BRA and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Bell County Water Control and Improvement District (WCID) No. 1

Summary of Comments Received:

1. Request for revision to population projections and per capita use (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 13, 2023, with Mr. Richard Garrett, General Manager for Bell County WCID No. 1, as well as via follow up information via email (see Digital Attachment/ Bell/ BellCountyWCIDNo1_1.pdf and BellCountyWCIDNo1_2.pdf).
2. The WUG provided data on current number of connections and historical, recent water sales.

Brazos G RWPG Analysis

The WUG's current number of retail connections, as of June 13, 2023, is 85, and the WUG has no plans to add additional retail connections. To estimate population based on the number of connections, the Texas Commission on Environmental Quality (TCEQ) uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. The Draft 2026 projections using the 0.5 migration scenario predict a retail population for the District of 264 in the year 2030, which equates to just over 3 people per each of 85 connections.

Brazos G RWPG also calculated actual per capita usage based on water sales between January 2017 and March 2023 based on a population of 264. The maximum monthly value was 338 gallons per capita per day, which is 80.5% less than that provided in the Draft 2026 projections.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 7, incorporating the Draft 2026 population projection using the 0.5 migration scenario for 2030 and keeping the population constant throughout the planning period.

Table 7 Summary of Requested Revisions to Population Projections for Bell County WCID No. 1 in Bell County (2030 – 2080)

Bell County WCID No. 1		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	272	292	307	316	327	339
	Requested Population Projections	**264**	**264**	**264**	**264**	**264**	**264**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and the draft TWDB population projection for 2030, using the 0.5 migration scenario.

This request is based on data provided by Bell County WCID No. 1 and information reported by the TWDB and is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests a revision to the baseline per capita usage to 338 gallons per capita per day (GPCD), as it is representative of near-term trends reported by the WUG (January 2017 to March 2023).

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

Bell County WCID No. 3

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone on August 2, 2023; attendees included Mr. Richard Garrett, General Manager for Bell County WCID No. 1; a technical consultant representing Bell County WCID No. 1; and Mr. Brad Brunett, Central and Lower Basin Regional Manager for the Brazos River Authority (BRA). Documentation was provided in subsequent emails (see Digital Attachment/ Bell/ BellCounty_MasterPlan_FINAL.pdf). Mr. Garrett shared a Master Plan that estimates future population and water demand for each of Bell County WCID No. 1 wholesale customers, including Bell County WCID No. 3, through 2070. BRA incorporated this master plan as the basis for their Integrated Water Resources Plan (IWRP), which extended the projections to 2080. Mr. Brunett shared a table of values from the IWRP via email.

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population projections are consistent with the Bell County WCID No. 1 Water System Master Plan and BRA's Integrated Water Resources Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on data and information provided by Bell County WCID No. 1 and BRA.

Table 8 Summary of Requested Revisions to Population Projections for Bell County WCID No. 3 in Bell County (2030 – 2080)

Bell County WCID No. 3		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	6,163	6,937	7,531	7,940	8,399	8,913
	Requested Population Projections	**9,460**	**11,636**	**14,996**	**18,356**	**19,140**	**19,924**

This request is based on data provided by Bell County WCID No. 1 and BRA and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Belton

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone on August 2, 2023; attendees included Mr. Richard Garrett, General Manager for Bell County WCID No. 1; a technical consultant representing Bell County WCID No. 1; and Mr. Brad Brunett, Central and Lower Basin Regional Manager for the Brazos River Authority (BRA). Documentation was provided in subsequent emails (see Digital Attachment/ Bell/ BellCounty_MasterPlan_FINAL.pdf). Mr. Garrett shared a Master Plan that estimates future population and water demand for each of Bell County WCID No. 1 wholesale customers, including Belton, through 2070. BRA incorporated this master plan as the basis for their Integrated Water Resources Plan (IWRP), which extended the projections to 2080. Mr. Brunett shared a table of values from the IWRP via email.

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population projections are consistent with the Bell County WCID No. 1 Water System Master Plan and BRA's Integrated Water Resources Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on data and information provided by Bell County WCID No. 1 and BRA.

Table 9 Summary of Requested Revisions to Population Projections for the City of Belton in Bell County (2030 – 2080)

City of Belton		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	26,908	30,337	32,970	34,790	36,828	39,110
	Requested Population Projections	**28,600**	**36,000**	**45,100**	**56,600**	**71,000**	**85,400**

This request is based on data provided by Bell County WCID No. 1 and BRA and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Elm Creek Water Supply Corporation (WSC)

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Mr. Kyle Bloodworth, General Manager for the Elm Creek Water Supply Corporation (see Digital Attachment/ Bell/ ElmCreek_WSC_1.pdf).
2. The WUG provided data on current water connections and planned growth.

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is 1,714. Their growth has slowed somewhat due to a need for a system-wide upgrade; at present, developers must cover the cost of any necessary upgrades. They are seeking ways to implement improvements themselves, with a desire to serve more customers. Their location between Waco and Temple is a large growth area.

To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 4,285 as of June 9, 2023, a number that the Draft 2026 projections reach between the years 2070 and 2080 based on the 1.0-migration scenario.

Assuming the system upgrades are implemented by 2030, we believe that an assumed increase of ten connections per year throughout the planning period is a conservative assumption.

Elm Creek WSC serves Bell, Coryell, and McLennan Counties. The TWDB Draft population projections provide an estimate of the projected distribution of the population served by Elm Creek WSC between these three counties, as shown in Table 10.

Table 10 Distribution as Percentage of Total Projected Population from Draft 2026 Projections of Elm Creek WSC (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
BELL	57.3%	57.9%	58.3%	58.4%	58.4%	58.4%
CORYELL	11.0%	10.4%	9.9%	9.4%	8.9%	8.3%
MCLENNAN	31.7%	31.7%	31.8%	32.2%	32.7%	33.3%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 11, incorporating a revised population based on an estimated 2.5 people per connection, starting with 1,714 connections in 2023 and increasing by 10 connections each year.

The resultant decadal revised population projections for Elm Creek WSC would then be apportioned using the decadal distribution percentages as identified in Table 11 to determine the split population projections for Elm Creek WSC in the split counties.

Table 11 Summary of Requested Revisions to Population Projections for Elm Creek WSC portion in Bell County (2030-2080)

Elm Creek WSC		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	2,052	2,196	2,306	2,371	2,445	2,528
	Requested Population Projections	**2,556**	**2,727**	**2,892**	**3,040**	**3,188**	**3,336**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the WUG's developer demand and desire to grow.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Fort Cavazos (formerly Fort Hood)

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by email on June 23, 2023, from Mr. Keith Sledd, Executive Director for the Heart of Texas Defense Alliance[5] (see Digital Attachment /Bell/FortCavazos_1.pdf). Mr. Sledd provided data regarding historical population estimates, as well as information regarding the new units added between 2020 and

[5] See https://www.hotda.org/ for additional information.

2023, another new unit expected in fiscal year 2024-2025, and the planned increase in on-post housing in the 2028-2029 timeframe.

2. Estimated population delineation between Bell and Coryell Counties provided by Mr. Brian Dosa, Director of Public Works for Fort Cavazos (see Digital Attachment /Bell/FortCavazos_2.pdf), on July 11, 2023.

Brazos G RWPG Analysis

The WUG's estimated current population for 2030 includes the current population estimate of 33,400; an additional 1,350 with the additional unit expected in fiscal year 2024-2025; and additional 580 homes planned for the 2028-2029 timeframe, estimated by assuming a conservative 2.5 people per home. These numbers result in an estimated 2030 population of 36,200, which is greater than the TWDB Draft projections throughout the planning period and approximately 37.7% greater than the estimated Draft 2030 population of 26,289 associated with the 1.0-migration scenario.

Further, Fort Cavazos anticipates adding additional housing throughout the planning period to accommodate additional soldiers and their families on-post, thus population estimates include the addition of another 580 on-post homes (and the associated 2.5 people per home) every ten years.

Fort Cavazos serves Bell and Coryell Counties. The Fort Cavazos Public Works Department provided an estimate of the projected distribution of the population served by Fort Cavazos between these two counties, as shown in Table 12.

Table 12 Distribution as Percentage of Total Projected Population of Fort Cavazos (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
BELL	57.0%	57.0%	57.0%	57.0%	57.0%	57.0%
CORYELL	43.0%	43.0%	43.0%	43.0%	43.0%	43.0%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 13, incorporating the revised 2030 population estimate of 36,200 from the WUG's provided data, then adding an additional 1,450 people due to additional housing every ten years.

The resultant decadal revised population projections for Fort Cavazos would then be apportioned using the decadal distribution percentages as identified in Table 12 to determine the split population projections for Fort Cavazos in the split counties.

Table 13 Summary of Requested Revisions to Population Projections for Fort Cavazos portion in Bell County (2030 – 2080)

Fort Cavazos		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	11,417	10,290	9,340	8,540	7,866	7,298
	Requested Population Projections	**20,634**	**21,461**	**22,287**	**23,114**	**23,940**	**24,767**

The Brazos G RWPG's request employs the reported 2030 total population estimate provided by the WUG. The request also reflects the WUG's reporting of recent and planned growth as exhibited by the addition of military units and planned on-post housing.

This request is based on data provided by the Heart of Texas Defense Alliance and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Georgetown

See the description for this WUG in the Williamson County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 14.

Table 14 Summary of Requested Revisions to Population Projections for the City of Georgetown in Bell County (2030 – 2080)

City of Georgetown		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	3,044	3,228	3,368	3,446	3,535	3,636
	Requested Population Projections	**4,831**	**6,577**	**7,183**	**6,882**	**6,658**	**6,565**

City of Harker Heights

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone on August 2, 2023; attendees included Mr. Richard Garrett, General Manager for Bell County WCID No. 1; a technical consultant representing Bell County WCID No. 1; and Mr. Brad Brunett, Central and Lower Basin Regional Manager for the Brazos River Authority (BRA). Documentation was provided in subsequent emails (see Digital Attachment/ Bell/ BellCounty_MasterPlan_FINAL.pdf). Mr. Garrett shared a Master Plan that estimates future population and water demand for each of Bell County WCID No. 1 wholesale customers, including Harker Heights, through 2070. BRA incorporated this master plan as the basis for their Integrated Water Resources Plan (IWRP), which extended the projections to 2080. Mr. Brunett shared a table of values from the IWRP via email.

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population projections are consistent with the Bell County WCID No. 1 Water System Master Plan and BRA's Integrated Water Resources Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on data and information provided by Bell County WCID No. 1 and BRA.

Table 15 Summary of Requested Revisions to Population Projections for the City of Harker Heights in Bell County (2030 – 2080)

City of Harker Heights		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	37,700	42,149	45,563	47,890	50,499	53,424
	Requested Population Projections	**36,879**	**42,566**	**48,218**	**50,000**	**50,000**	**50,000**

This request is based on data provided by Bell County WCID No. 1 and BRA and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Holland

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by email on August 2, 2023, from Mr. Scott Murrah, President of 5M Associates, LLC, acting as Engineer for the City of Holland (see Digital Attachment /Bell/Holland_1.pdf). Mr. Murrah provided data regarding recent subdivision approvals and expected population growth in general.

Brazos G RWPG Analysis

The WUG's estimated current population for 2030 includes the Draft population projections and the demographic undercount adjustment, for an estimate of 1,056, plus an additional 153 people based on subdivisions recently approved by City Council (estimated by assuming a conservative 2.5 people per home in 61 homes). These numbers result in an estimated 2030 population of 1,209, which is greater than the TWDB Draft projections throughout the planning period and approximately 16.9% greater than the estimated Draft 2030 population of 1,034 associated with the 1.0-migration scenario.

For decades beyond 2030, due to the fact that Holland expects additional development (not a decrease in population, as the Draft population projections suggested), the consultant applied annual growth rates used in the 2021 Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 16, incorporating the revised 2030 population estimate based on the demographic undercount adjustment and recently approved subdivisions, and increasing at a rate equal to that used in the 2021 Plan.

Table 16 Summary of Requested Revisions to Population Projections for the City of Holland in Bell County (2030 – 2080)

City of Holland		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	1,034	1,008	986	957	926	892
	Requested Population Projections	**1,209**	**1,232**	**1,251**	**1,269**	**1,288**	**1,306**

The Brazos G RWPG's request employs the TWDB-provided 2030 population estimate, an adjustment for demographic undercount, and an additional population associated with recently approved subdivisions.

This request is based on data provided by the City of Holland (via their engineer) and is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Jarrell Schwertner CRU

See the description for this WUG in the Williamson County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 17.

Table 17 Summary of Requested Revisions to Population Projections for Jarrell Schwertner CRU in Bell County (2030 – 2080)

Jarrell Schwertner CRU		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	2,005	2,170	2,296	2,376	2,465	2,566
	Requested Population Projections	**5,064**	**5,479**	**5,799**	**5,999**	**6,225**	**6,479**

Kempner WSC

See the description for this WUG in the Lampasas County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 18.

Table 18 Summary of Requested Revisions to Population Projections for Kempner WSC in Bell County (2030 – 2080)

Kempner WSC		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	2,224	2,438	2,601	2,707	2,826	2,961
	Requested Population Projections	**2,543**	**2,787**	**2,974**	**3,095**	**3,232**	**3,385**

City of Killeen

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone on August 2, 2023; attendees included Mr. Richard Garrett, General Manager for Bell County WCID No. 1; a technical consultant representing Bell County WCID No. 1; and Mr. Brad Brunett, Central and Lower Basin Regional Manager for the Brazos River Authority (BRA). Documentation was provided in subsequent emails (see Digital Attachment/ Bell/ BellCounty_MasterPlan_FINAL.pdf). Mr. Garrett shared a Master Plan that estimates future population and water demand for each of Bell County WCID No. 1 wholesale customers, including Killeen, through 2070. BRA incorporated this master plan as the basis for their Integrated Water Resources Plan (IWRP), which extended the projections to 2080. Mr. Brunett shared a table of values from the IWRP via email.

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population projections are consistent with the Bell County WCID No. 1 Water System Master Plan and BRA's Integrated Water Resources Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on data and information provided by Bell County WCID No. 1 and BRA.

Table 19 Summary of Requested Revisions to Population Projections for the City of Killeen in Bell County (2030 – 2080)

City of Killeen		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	171,409	189,108	202,671	211,664	221,769	233,124
	Requested Population Projections	**173,431**	**198,764**	**221,697**	**247,195**	**272,291**	**297,387**

This request is based on data provided by Bell County WCID No. 1 and BRA and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Morgans Point Resort

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Mr. Jesse Measles, Director of Utilities for the City of Morgans Point Resort.
2. The WUG provided data on recent water connection sales and trends (see Digital Attachment/ Bell/ MorgansPointResort_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is 1,980. The WUG has been adding ten to thirty connections per year. To estimate population based on the number of connections the TCEQ uses 3 people per connection. Using a more conservative estimate of 2.5 people per connection for this WUG equates to a current population of 4,950 as of June 9, 2023, a number that the Draft 2026 projections does not reach until between the years of 2040 and 2050, using the 1.0-migration scenario.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 20, incorporating a revised population based on an estimated 2.5 people per connection, starting with 1,980 connections in 2023 and increasing by 20 connections each year.

Table 20 Summary of Requested Revisions to Population Projections for the City of Morgans Point Resort portion in Bell County (2030 – 2080)

City of Morgans Point Resort		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	4,422	4,739	4,980	5,124	5,287	5,472
	Requested Population Projections	**5,300**	**5,800**	**6,300**	**6,800**	**7,300**	**7,800**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the WUG's reporting of recent growth as exhibited by an average increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Temple

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on June 9, 2023, from Mr. Don Bond, Director of Public Works for the City of Temple (see Digital Attachment/ Bell/ Temple_1.pdf, Temple_2.pdf, and Temple_3.pdf).
2. The WUG provided multiple sources of data, including a demographic study dated Spring 2019 and projected population data that incorporates an adjustment factor to the demographic study based on actual 2020 census data.

Brazos G RWPG Analysis

A 2019 report by Templeton Demographics forecasted population through 2038. The projected 2030 projection was 102,028. The 2020 estimate was 84700, which underestimated the census results by 0.6%; the City of Temple has applied an adjustment factor to reflect this. Further, the City of Temple provides service outside the City population to non-WUG communities and expects this population to grow proportionately to the City, and the WUG has applied an additional "service adjustment" to include this population. Applying these adjustment factors to the Draft 2026 1.0-migration scenario population projections results in population values consistently approximately 18.6% greater than the Draft 2026 projections provided.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 21, incorporating a revised population based on the information provided by the City of Temple.

Table 21 Summary of Requested Revisions to Population Projections for the City of Temple in Bell County (2030 – 2080)

City of Temple		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	97,433	109,039	117,946	124,026	130,842	138,485
	Requested Population Projections	**115,562**	**129,327**	**139,891**	**147,103**	**155,187**	**164,252**

The Brazos G RWPG's request employs the Draft 2026 population projections and WUG-calculated adjustment factors based on the demographic study provided and the service population outside the City. This request is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Grove WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 12, 2023, with Ms. Amy Veazey with The Grove Water Supply Corporation.
2. The WUG provided data on recent water connection sales and trends (see Digital Attachment/ Bell/ TheGrove_WSC_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 12, 2023, is 457. The WUG has been between 10 and 15 connections per year since 2020. They also have an application waiting for a new neighborhood, requesting 100 new meters.

To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 1,143 as of June 12, 2023, a number that the Draft 2026 projections does not reach in the entire planning period.

The Grove WSC serves Bell and Coryell Counties. The TWDB Draft population projections provide an estimate of the projected distribution of the population served by The Grove WSC between these two counties. However, this distribution was deemed inappropriate for use since the Draft population was estimated to decline. Therefore, the projected distribution used in the 2021 Water Plan was employed, as shown in Table 22.

Table 22 Distribution as Percentage of Total Projected Population from 2021 Water Plan of The Grove WSC (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
BELL	87.2%	87.3%	87.3%	87.3%	87.3%	87.3%
CORYELL	12.8%	12.7%	12.7%	12.7%	12.7%	12.7%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 23, incorporating a revised population based on an estimated 2.5 people per connection, starting with 457 connections in 2023 and increasing by a conservative estimate of 10 connections each year.

The resultant decadal revised population projections for The Grove WSC would then be apportioned using the decadal distribution percentages as identified in Table 22 to determine the split population projections for The Grove WSC in the split counties.

Table 23 Summary of Requested Revisions to Population Projections for The Grove WSC portion in Bell County (2030 – 2080)

bru WSC		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	684	657	635	609	582	551
	Requested Population Projections	**1,149**	**1,369**	**1,586**	**1,805**	**2,023**	**2,242**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the WUG's reporting of recent growth as exhibited by an average increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Troy

Summary of Comments Received:

1. Request for revision to population projections and per capita usage (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on June 27, 2023, from Mr. Gary Smith, City Administrator for the City of Troy (see Digital Attachment/ Bell/ Troy_1.pdf).
2. The WUG provided data on recent water connection sales and trends.

Brazos G RWPG Analysis

The WUG's current number of living unit equivalents, as of June 27, 2023, is 1,329. Since 2020, the WUG has added between 73 and 93 per year. To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.75 people per connection for this WUG equates to a current population of 3,655 as of June 12, 2023, a number that the Draft 2026 projections does not reach until between the years of 2040 and 2050, using the 1.0-migration scenario. The WUG's population projections are based on a conservative estimate of an additional 10 connections per year.

The WUG also refuted the per capita usage in the Draft 2026 projections and provided recent per capita use based on the estimated population served between 2020 and 2023, which ranged from 103 (wet year) to 119 gallons per capita per day. The higher per capita usage amount identified by the City reflects recent trends.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 24, incorporating a revised population based on an estimated 2.75 people per connection, starting with 1,329 connections in 2023 and increasing by 10 connections each year.

Table 24 Summary of Requested Revisions to Population Projections for the City of Troy portion in Bell County (2030 – 2080)

City of Troy		2030	2040	2050	2060	2070	2080
BELL	2026 Draft	3,000	3,502	3,889	4,167	4,477	4,824
	Requested Population Projections	**3,847**	**4,122**	**4,397**	**4,672**	**4,947**	**5,222**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG, a conservative estimate of people per connection (less than that used by the TCEQ), and a conservative estimate of increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection." This request is also consistent with the

The Brazos G RWPG further requests a revision to the baseline per capita usage to 119 GPCD, as it is representative of near-term trends reported by the WUG (2020-2023).

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

Brazos County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Brazos County, as shown in Table 25.

Table 25 – Summary of Requested Revisions to Population Projections for Brazos County (2030 – 2080)

Brazos	2030	2040	2050	2060	2070	2080
2026 Draft	293,987	331,664	388,357	458,282	536,895	625,276
Demographic Undercount Adjustment	3,245	3,634	4,221	4,912	5,082	5,292
WUG-Specific Requests	-1,363	2,802	2,941	316	-23,632	-43,646
Requested Population Projections	**295,869**	**338,100**	**395,519**	**463,510**	**518,345**	**586,922**
Net County Increase	1,882	6,436	7,162	5,228	-18,550	-38,354

The Brazos G RWPG received one request for revisions to the draft population projections for WUGs within Brazos County from the City of Bryan. Based on the information provided by this WUG, the Brazos G RWPG requests revisions to the Draft 2026 population projections for the City of Bryan.

City of Bryan

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by email on June 5, 2023, from Mr. Jayson E. Barfknecht for the City of Bryan (see Digital Attachment /BRAZOS/BRYAN_1.pdf).
2. The WUG provided population projection data based on its utility's water service area as developed from the City's 2021 Water Master Plan. (see Digital Attachment /BRAZOS/BRYAN_2.pdf).

Brazos G RWPG Analysis

The projected populations requested by the City of Bryan represent the 2030 – 2070 period. To estimate a 2080 population for the purposes of the 2026 Plan, the Brazos G RWPG determined the City's estimated annual growth rate from 2060 to 2070 as approximately 2.3%. The Brazos G RWPG then applied this same growth rate to estimate the City's 2080 projected population of 273,294.

The resultant municipal population projections over the full 2030 – 2080 period differ from the Draft 2026 projections. Decreases from the draft amounts are observed in 2030 (-1.3%), 2070 (-9.8%), and 2080 (-13.8%). Increases from the draft amount are observed in 2040 (+2.3%), 2050 (+9.8%), and slightly in 2060 (+0.2%).

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 26, incorporating the WUG's requested 2030 – 2070 projections based on the City's reported results from its 2021 Water Master Plan. Utilize the 2.3% annual growth rate from the City's 2060 to 2070 projections to estimate the City's 2080 projected population of 273,294.

Table 26 Summary of Requested Revisions to Population Projections for the City of Bryan in Brazos County (2030 – 2080)

City of Bryan		2030	2040	2050	2060	2070	2080
BRAZOS	2026 Draft	104,890	119,955	132,477	172,041	240,702	316,940
	Requested Population Projections	**103,527**	**122,757**	**145,418**	**172,357**	**217,070**	**273,294**

The Brazos G RWPG's request employs the information reported by the City's 2021 Water Master Plan and utilizes that data to extend the projection through 2080. This request is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Burleson County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Burleson County, as shown in Table 27:

Table 27 Summary of Requested Revisions to Population Projections for Burleson County (2030 – 2080)

Burleson	2030	2040	2050	2060	2070	2080
2026 Draft	18,244	18,370	18,276	18,151	18,010	17,851
Demographic Undercount Adjustment	87	88	88	88	89	90
WUG-Specific Requests	0	0	0	0	0	0
Requested Population Projections	**18,331**	**18,458**	**18,364**	**18,239**	**18,099**	**17,941**
Net County Increase	87	88	88	88	89	90

The Brazos G RWPG received two requests for revisions to the draft population projections from WUGs primarily within Burleson County from the City of Caldwell, and the City of Snook. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the Draft 2026 population projections for the Cities of Caldwell and Snook, and the County-Other, Burleson, WUG.

City of Caldwell

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on June 22, 2023, from Mr. Jeffery Zagbay, Water Services Manager for Caldwell (see Digital Attachment/Burleson/Caldwell_1.pdf). The WUG provided data on historical population and population estimates over the 1880 – 2022 period of record.

Brazos G RWPG Analysis

The WUG's reported 2020 population of 3,993 is approximately 3.1% less than the 2020 census population of 4,119 identified in the historical data provided to the Brazos G RWPG by TWDB. The WUG estimates a 2022 total population of 4,181, which represents a near-term annual growth rate of 2.3% since 2020. The historical annual growth rate derived from the WUG's data over the 2010 – 2022 period is 0.2%, though 2020 shows a significant 7.5% drop in population, the 3-year annual growth rate (2020 – 2022) is 2.3%, again suggesting more recent near-term growth for the WUG's overall estimated population.

These historical annual growth rates significantly differ from the Draft 2026 projected annual growth rates, which start at a 0.3% annual growth rate from 2020 to 2030, to 0.08% in 2040, then decreasing to -0.07% by 2080.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 28, incorporating the revised 2022 population estimate of 4,181 from the WUG's provided data, then utilize the annual growth rate from the Draft 2026 population projections for the 2030-2080 period.

Table 28 Summary of Requested Revisions to Population Projections for the City of Caldwell (2030 – 2080)

City of Caldwell	2030	2040	2050	2060	2070	2080
2026 Draft	4,258	4,291	4,275	4,251	4,225	4,196
Requested Population Projections	**4,293**	**4,326**	**4,310**	**4,286**	**4,260**	**4,231**

The Brazos G RWPG's request employs the reported 2022 total population estimate provided by the WUG and incorporates the TWDB's annual growth rates derived from the Draft 2026 projections for the WUG for the long-term 2030 – 2080 population projections. This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Snook

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on May 23, 2023, from Mr. David Junek, City Administrator for the City of Snook (see Digital Attachment /Burleson/ Snook_1.pdf). WUG provided plats for three subdivisions that are under construction or soon to be approved for construction. The provided information indicates 365 housing units of which 120 have been constructed.
2. According to Snook's estimates based on reported use and increases in connections, the recent historical population served over the 2020 – 2022 period has increased from 640 in 2020 to 680 in 2022.

Brazos G RWPG Analysis

The City of Snook's estimated full time residential population served directly by the system of 640 in 2020 is significantly greater recent growth than the estimated 2020 census population of 378. The 2022 population of 680 is greater than all the draft projections over the 2030 – 2080 planning period. These estimates are based on the information reported in the City of Snook's Water Use Surveys submitted to the TWDB. The compounded annual growth rate over this more recent two-year period equates to 3.08%, which is significantly higher than the draft near-term growth rate of 0.34% applied to estimate the draft 2030 population for the City of Snook.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 29, incorporating the revised 2022 population estimate of 680 from the City of Snook for 2022, and accounting for the additional subdivisions being constructed applying a 7.02% annual growth rate for the estimation of 2030 population, then utilize the annual growth rate from the Draft 2026 population projections for the 2040 – 2080 period.

Table 29 Summary of Requested Revisions to Population Projections for the City of Snook in Burleson County (2030 – 2080)

City of Snook	2030	2040	2050	2060	2070	2080
2026 Draft	391	394	392	388	385	382
Requested Population Projections	**1,170**	**1,179**	**1,173**	**1,1761**	**1,152**	**1,143**

This request is consistent with the sixth criterion for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 6). The sixth criterion is, "Plans for new residential development in the near future that has not been counted in the draft projections."

This request is also consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

County-Other, Burleson

Summary of Comments Received:

1. No requests received.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Analysis

The WUG-specific requests in Burleson County include potential expansion into County-Other, Burleson. An adjustment to the Draft 2026 population projections over the 2030-2080 period has been recommended to reflect expansion of the requesting WUG's service areas.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the Draft 2026 population projections for the County-Other, Burleson, WUG to the amounts shown in Table 30.

Table 30 Summary of Requested Revisions to Population Projections for County-Other, Burleson (2030-2080)

County-Other Burleson	2030	2040	2050	2060	2070	2080
2026 Draft	7,890	7,900	7,786	7,655	7,510	7,351
Requested Population Projections	**7,076**	**7,080**	**6,970**	**6,847**	**6,708**	**6,555**

Coryell County Summary of Requested Revisions

In addition to the requested use of the 0.5-migration scenario population projections and the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Coryell County based on WUG-specific requests. These cumulative changes are shown in Table 31.

Table 31 Summary of Requested Revisions to Population Projections for Coryell County (2030 – 2080)

Coryell	2030	2040	2050	2060	2070	2080
2026 Draft	88,145	88,894	88,099	86,111	83,876	81,363
0.5-migration Adjustment	-291	168	902	1,469	2,126	2,885
Demographic Undercount Adjustment	523	536	543	536	529	521
WUG-Specific Requests	14,451	34,334	62,984	103,296	159,716	216,257
Requested Population Projections	**102,828**	**123,932**	**152,528**	**191,412**	**246,247**	**301,026**
Net County Increase	14,683	35,038	64,429	105,301	162,371	219,663

The Brazos G RWPG received four requests for revisions to the draft population projections for WUGs within Coryell County from Copperas Cove, Elm Creek WSC, Fort Cavazos (formerly Hood), The Grove WSC, and Kempner WSC. Based on the information provided by the WUGs, the Brazos G RWPG requests revisions to the draft population projections as described in the following sections.

City of Copperas Cove

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone on August 2, 2023; attendees included Mr. Richard Garrett, General Manager for Bell County WCID No. 1; a technical consultant representing Bell County WCID No. 1; and Mr. Brad Brunett, Central and Lower Basin Regional Manager for the Brazos River Authority (BRA). Documentation was provided in subsequent emails (see Digital Attachment/ Bell/ BellCounty_MasterPlan_FINAL.pdf). Mr. Garrett shared a Master Plan that estimates future population and water demand for each of Bell County WCID No. 1 wholesale customers, including Copperas Cove, through 2070. BRA incorporated this master plan as the basis for their Integrated Water Resources Plan (IWRP), which extended the projections to 2080. Mr. Brunett shared a table of values from the IWRP via email.

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population projections are consistent with the Bell County WCID No. 1 Water System Master Plan and BRA's Integrated Water Resources Plan.

The City of Copperas Cove is split into Coryell and Lampasas Counties. The TWDB Draft population projections provide an estimate of the projected distribution of the population served by the City Of Copperas Cove between these two counties. However, this distribution was deemed inappropriate for use since the Draft population was

estimated to decline. Therefore, the projected distribution used in the 2021 Water Plan was employed, as shown in Table 22.

Table 32 Percentage of Municipal Population for the City of Copperas Cove between Coryell and Lampasas Counties from the 2021 Water Plan Population Projections

County	2030	2040	2050	2060	2070	2080
CORYELL	97.1%	96.6%	96.3%	95.9%	95.7%	95.6%
LAMPASAS	2.9%	3.4%	3.7%	4.1%	4.3%	4.4%

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on data and information provided by Bell County WCID No. 1 and BRA. This request is to be disaggregated by county based on the percentages shown in Table 115, which are consistent with the percentages employed for the development of the 2021 Water Plan population projections for the WUG.

Table 33 Summary of Requested Revisions to Population Projections for Copperas Cove in Coryell County (2030 – 2080)

Copperas Cove		2030	2040	2050	2060	2070	2080
CORYELL	2026 Draft	35,151	35,494	35,129	34,248	33,258	32,147
	Requested Population Projections	**48,375**	**67,875**	**95,394**	**134,081**	**188,760**	**243,424**

This request is based on data provided by Bell County WCID No. 1 and BRA and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Elm Creek WSC

See the description for this WUG in the Bell County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 34.

Table 34 Summary of Requested Revisions to Population Projections for Elm Creek WSC portion in Coryell County (2030-2080)

Elm Creek WSC		2030	2040	2050	2060	2070	2080
CORYELL	2026 Draft	393	396	392	382	371	359
	Requested Population Projections	**489**	**492**	**492**	**490**	**484**	**474**

Fort Cavazos (formerly Hood)

See the description for this WUG in the Bell County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 35.

Table 35 Summary of Requested Revisions to Population Projections for Fort Cavazos in Coryell County (2030 – 2080)

Fort Cavazos		2030	2040	2050	2060	2070	2080
CORYELL	2026 Draft	14,872	14,872	14,872	14,872	14,872	14,872
	Requested Population Projections	**15,566**	**16,190**	**16,813**	**17,437**	**18,060**	**18,684**

The Grove WSC

See the description for this WUG in the Bell County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 36.

Table 36 Summary of Requested Revisions to Population Projections for The Grove WSC in Coryell County (2030 – 2080)

The Grove WSC		2030	2040	2050	2060	2070	2080
CORYELL	2026 Draft	304	308	305	296	288	278
	Requested Population Projections	**168**	**199**	**231**	**263**	**294**	**326**

Kempner WSC

See the description for this WUG in the Lampasas County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 37.

Table 37- Summary of Requested Revisions to Population Projections for Kempner WSC in Bell County (2030 – 2080)

Kempner WSC		2030	2040	2050	2060	2070	2080
CORYELL	Draft 2026	4,308	4,350	4,305	4,197	4,075	3,938
	Requested Population Projections	**4,881**	**4,998**	**5,057**	**5,020**	**4,982**	**4,943**

Erath County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, a re-distribution of the Draft 2026 population projections is requested for Erath County, as shown in Table 38.

Table 38 – Summary of Requested Revisions to Population Projections for Erath County (2030 – 2080)

Erath	2030	2040	2050	2060	2070	2080
2026 Draft	47,853	51,746	56,431	62,513	69,351	77,039
Demographic Undercount Adjustment	34	30	27	23	20	18
WUG-Specific Requests	0	0	0	0	0	0
Requested Population Projections	**47,887**	**51,776**	**56,458**	**62,536**	**69,371**	**77,057**
Net County Increase	34	30	27	23	20	18

The Brazos G RWPG received one request for revisions to the draft population projections for WUGs within Erath County from the City of Stephenville, a WUG within Erath County. Based on the information provided by this WUG, the Brazos G RWPG requests re-distribution to the draft population projections for Stephenville and County-Other, Erath.

City of Stephenville

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document. The WUG has experienced growth more quickly than the TWDB's growth rate from 2020 to 2030.

Summary of Supporting Materials Received:

1. Revision request received by email on July 31, 2023, and discussed by phone on July 31, 2023, with Mr. Nick Williams, Director of the Public Works Department for the City of Stephenville.
2. The WUG provided data on the WUG's existing system and service area, and historical (2008-2018) and projected system growth (2019-2039) (see Digital Attachment /Erath/Stephenville/Stephenville.pdf).

Brazos G RWPG Analysis

The WUG's average growth rate from 2008 to 2018, based on the North Central Texas Council of Governments' population records, was 3.47%. Based on the U.S. Census population estimates, the average growth rate for this same period was 2.82%. The WUG's Water and Wastewater CIP and RBA Report used a projection of 3% annual growth for the WUG to project out to 2039.

The WUG requested that a 3% annual increase be used starting with the WUG's 2020 census population, after adjustments to include demographic undercounts have been included, resulting in an adjusted 2020 census population of 20,613. This 3% annual growth rate results in a population of 26,797 in the year 2030, while lower than the WUG's near term population projections for 2029 from their planning documentation, this growth is consistent with the current growth that the WUG is experiencing.

The TWDB's draft growth rates were applied for the remainder of the planning horizon from 2040 to 2080.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 39, incorporating the revised 2030 population estimate of 26,797 calculated from the adjusted 2020 Census population and reflecting the WUG's growth projections from their provided data, then applying a 1.0% annual growth rate for 2040, a 1.1% annual growth rate for 2050, and a 1.3% annual growth rate for 2060 – 2080. These growth rates are the same as those used by the TWDB for the draft population projections for this WUG.

Table 39 Summary of Requested Revisions to Population Projections for the City of Stephenville in Erath County (2030 – 2080)

Stephenville		2030	2040	2050	2060	2070	2080
ERATH	Draft 2026	23,660	26,100	29,022	33,039	37,512	42,502
	Requested Population Projections	**26,797**	**29,440**	**32,581**	**36,832**	**41,538**	**46,758**

The Brazos G RWPG's request employs a 3% annual growth increase to 2030 consistent with the WUG's growth projections. The request reflects the WUG's projections, and the current faster near-term growth experienced by the WUG. The remainder of the planning horizon employs the same growth rates used by the TWDB to develop the Draft Projections.

This request is based on data provided by the WUG and is consistent with the seventh data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 7). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size."

County-Other, Erath

Summary of Comments Received:

1. No comments received.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Request

Reduction to the population projections for County-Other, Erath as the population is re-allocated to the City of Stephenville as shown in Table 40.

Table 40 Summary of Requested Revisions to Population Projections for County-Other, Erath, WUG in Erath County (2030 – 2080)

County-Other, Erath		2030	2040	2050	2060	2070	2080
ERATH	Draft 2026	21,344	23,088	25,108	27,472	30,094	33,012
	Requested Population Projections	**18,207**	**19,748**	**21,549**	**23,679**	**26,068**	**28,756**

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Falls County Summary of Requested Revisions

In addition to the requested use of the 0.5-migration scenario population projections and the requested adjustments addressing the demographic undercount, an increase from the Draft projected population amounts is requested for Falls County based on WUG-specific requests. These cumulative changes are shown in Table 41.

Table 41 Summary of Requested Revisions to Population Projections for Falls County (2030 – 2080)

Falls	2030	2040	2050	2060	2070	2080
2026 Draft	15,703	14,362	12,979	11,633	10,120	8,419
0.5-migration Adjustment	432	907	1,384	1,841	2,405	3,086
Demographic Undercount Adjustment	325	307	287	269	251	227
WUG-Specific Requests	1,206	1,707	1,920	2,116	2,324	2,666
Requested Population Projections	**17,666**	**17,283**	**16,570**	**15,859**	**15,100**	**14,398**
Net County Increase	1,963	2,921	3,591	4,226	4,980	5,979

The Brazos G RWPG received two requests for revisions to the draft population projections for WUGs within Falls County from the City of Bruceville-Eddy and Levi WSC. Based on the information provided by the WUGs, the Brazos G RWPG requests revisions to the draft population projections as described in the following sections.

City of Bruceville-Eddy

See the description for this WUG in the McLennan County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 42.

Table 42 Summary of Requested Revisions to Population Projections for the City of Bruceville-Eddy in Falls County (2030 – 2080)

City of Bruceville-Eddy		2030	2040	2050	2060	2070	2080
FALLS	2026 Draft	254	218	180	147	111	71
	Requested Population Projections	**1,253**	**1,654**	**1,766**	**1,885**	**2,013**	**2,273**

Levi WSC

See the description for this WUG in the McLennan County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 43.

Table 43 Summary of Requested Revisions to Population Projections for the Levi WSC in Falls County (2030 – 2080)

Levi WSC		2030	2040	2050	2060	2070	2080
FALLS	2026 Draft	186	244	301	340	380	418
	Requested Population Projections	**393**	**515**	**635**	**718**	**802**	**882**

Hill County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Hill County, as shown in Table 44.

Table 44 Summary of Requested Revisions to Population Projections for Hill County (2030 – 2080)

Hill	2030	2040	2050	2060	2070	2080
2026 Draft	37,500	38,614	39,324	40,073	40,915	41,862
Demographic Undercount Adjustment	344	354	359	367	377	383
WUG-Specific Requests	9,970	15,786	22,299	29,510	37,486	46,306
Requested Population Projections	**47,814**	**54,754**	**61,982**	**69,950**	**78,778**	**88,551**
Net County Increase	10,314	16,140	22,658	29,877	37,863	46,689

The Brazos G RWPG received three requests for revisions to the draft population projections for WUGs within Hill County from Chatt WSC, Files Valley WSC, Gholson WSC, and the City of Hillsboro. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections for Files Valley WSC, the City of Hillsboro, and the County-Other, Hill, WUG.

Chatt WSC

Summary of Comments Received:

1. The Brazos G RWPG received a July 26, 2023, email from Mr. Ronnie L. Skerik, President of Menlow WSC, on behalf of Chatt WSC (see Digital Attachment /HILL/ChattWSC_1.pdf).
2. The email included as an attachment the WUG's response to the Brazos G RWPG's survey, which requested revisions to the population and demand projections for the WUG.

Summary of Supporting Materials Received:

1. The WUG indicates that based on meter count with adjustments for larger meters, total connections in 2022 were 407. Based on an assumption of 3 people per connection, population in 2022 would be 1,221.
2. Chatt WSC has no documentation to provide estimates for 2030 and beyond.
3. The WUG notes that recent meter additions are not a good indicator of population change and predicting 2030 demands for Chatt WSC, as due to capacity limitations, new meters have not been added for the past couple of years and will not be added until a new well is completed in Fall 2024 to Winter 2024/25.
4. The WUG notes there is good potential for growth for Chatt WSC as it is in the I-35 corridor, noting the growth of a nearby WSC and municipality.
5. The WUG indicates that the Draft 2030 demand of 73-75 ac-ft appears too low, as water sales in 2022 were 40.4 million gal., or 124 ac-ft.
6. The WUG indicates that based on 2022 sales of 40.4 million gal. and a population of 1,221, the per capita water use in 2022 was 91 gpcd.

Brazos G RWPG Analysis

An evaluation of the Draft 2026 population projections for Chatt WSC provided by the TWDB indicates annual growth rates varying between 0.3% in 2040, to 0.2% from 2050 – 2070, and 0.3% by 2080. Utilizing the WUG's reported 2022 population of 1,221, and assuming the near-term growth rate of 0.3% from the Draft 2026 amount, the estimated population for the WUG by 2030 is 1,251.

Chatt WSC's historical data from its Water Use Surveys were used to identify the WUG's net use and reported populations over the 2010 – 2021 period. Information for 2022 was provided by the WUG. Utilizing these amounts, a revised maximum per capita usage of 162 gpcd was identified in 2018.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 45, incorporating the WUG's estimated 2022 population of 1,221 with the near-term annual growth rate of 0.3% to determine the 2030 population, and the annual growth rates from the Draft 2026 projections to determine the 2040 – 2080 populations.

Table 45 Summary of Requested Revisions to Population Projections for the Chatt WSC in Hill County (2030 – 2080)

Chatt WSC		2030	2040	2050	2060	2070	2080
HILL	Draft 2026	591	609	620	632	645	661
	Requested Population Projections	**1,251**	**1,289**	**1,312**	**1,337**	**1,364**	**1,398**

The request utilizes data provided by the Chatt WSC, WUS information, and growth rates from TWDB to develop the 2030 – 2080 population projections.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests that the baseline per capita usage for Chatt WSC be 162 gpcd. This amount represents the maximum per capita usage over the 2010 – 2022 period from the WUG's reported data.

The Brazos G RWPG's request for revision to the baseline per capita usage is consistent with the eighth and ninth data requirements for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). Data Requirement 8-d states, "Growth data in the residential, commercial and / or public sectors that would justify an increase or decrease in per capita water use." The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

Files Valley WSC (FVWSC)

Summary of Comments Received:

1. Ms. Lea Sanders, with the Hilco Electric Cooperative, Inc., the entity providing water management services to FVWSC, submitted a letter on October 12, 2022, to the Brazos G RWPG signed by the President of FVWSC, Mr. Dwight Lloyd (see Digital Attachment /HILL/FILESVALLEYWSC_1.pdf). This letter requested the Brazos G RWPG's support for a consistency waiver request with regard to the 2021 Brazos G Plan.

   This letter noted that FVWSC's Certificate of Convenience and Necessity (CCN) covers approximately 83,000 acres in Hill (Region G) and Ellis (Region C) Counties. FVWSC currently purchases 100% of its water from Aquilla Water Supply District. The FVWSC service territory encompasses the area along the I-35 corridor and is experiencing rapid development.

   FVWSC is actively working to secure additional water supplies to meet this recent, rapid growth in demand, anticipating an additional demand of 0.25 million gallons per day (MGD) (280 acre-feet per year, or ac-ft/yr) greater than the 2021 projected demands for the municipal WUG.
2. The Brazos G RWPG received an October 12, 2022, email from Ms. Nicole Crain, Secretary of the Aquilla Water Supply District (see Digital Attachment /HILL/FILESVALLEYWSC_1.pdf). The district is primarily located in Hill County. The email notes that FVWSC and the City of Hillsboro are the Aquilla Water Supply District's two biggest customers and expressed the need for water due to recent observed growth and subdividing of land.
3. The Brazos G RWPG received an October 12, 2022, email from Ms. Megan Henderson, City Manager for the City of Hillsboro (see Digital Attachment /HILL/FILESVALLEYWSC_2.pdf). This email seconded the concerns expressed by Aquilla Water Supply District. The email noted that,

   "Hillsboro's growth is completely unregistered by the dangerously inaccurate 2020 census, so planners may be unaware of our needs. We are already limiting development density because planned projects would take us to the end of our current water allocation. Economic growth is similarly constrained now, as the limited water means we can't pursue the highest and best use for our industrial development land. The communities of Hill County, incorporated and unincorporated, need more water and the State Water Plan needs to reflect that."
4. Ms. Lea Sanders, with the Hilco Electric Cooperative, Inc., the entity providing water management services to FVWSC, submitted an emailed request on June 6, 2023, in response to the Brazos G RWPG's survey, providing supporting data and information to revise the Draft 2026 population and demand projections (see Digital Attachment /HILL/FILESVALLEYWSC_3.pdf).

Summary of Supporting Materials Received:

1. The WUG provided historic metering from 2013 – 2022, along with a map of its current CCN (see Digital Attachment /HILL/FILESVALLEYWSC_4.pdf).

Brazos G RWPG Analysis

The Draft 2030 population projected for Files Valley WSC of 2,494 is 583 lower than the WUG's 2020 census population of 3,077, as reported in the supporting historical data provided to the RWPG by TWDB. The Brazos G RWPG evaluated the historical metering data and populations as reported to TWDB via the WUG's WUS. Over the 2013-2020 period with corresponding data, the WUG's average person-per-meter was consistently close to 2.6 persons-per-meter. The annual growth rate in the WUG's reported metering is observed to have increased from a 10-yr (2013-2022) growth rate of 4.4% to a 5-year (2018-2022) growth rate of 7%. The year-over-year annual growth rate observed from 2021 to 2022 is significantly larger, at 18%.

Evaluation of the TWDB's historical population estimates derived from the U.S. Census Bureau's County Data over the 2010-2020 period indicates a 10-year growth rate of 2.2%. Using the 2020 census amount of 3,077 as a baseline for the population of the WUG located within Region G, application of the 10-year (2013-2022) annual growth rate of 4.2% results in a projected 2030 population of 4,643 for the portion of Files Valley WSC located within Region G. Application of the Draft 2026 annual growth rates was then assumed for the 2040-2080 period, as shown in Table 46.

Table 46 Baseline, Revised Projections, and Annual Growth Rates utilized for determination of Files Valley WSC's portion located within Region G (2020 – 2080)

	2020	2030	2040	2050	2060	2070	2080
Census Population	3,077						
Revised Projected Population for FVWSC (Hill County, Region G portion)		4,643	4,779	4,871	4,964	5,069	5,187
Annual Growth Rate		4.2%	0.29%	0.19%	0.19%	0.21%	0.23%

Files Valley WSC's service area includes portions of Hills County (Region G) and Ellis County (Region C). A review of the historical change in the proportions of demand from the 2022 State Water Plan indicates that the Region G portion of the WUG's total population is anticipated to decrease (relative to its total population) at a rate of 5% per decade, from 75% of the WUG's total population in 2030 to 55% of the WUG's total population by 2070. Assuming a continued 5% change in proportion would result in a 50/50 split of the WUG's total population between Hill County (Region G) and Ellis County (Region C) by 2080.

The Brazos G RWPG assumed this change in proportions of the WUG's projected population split between the regions to calculate a total WUG population, applying the proportions to the Region G revised projections to then derive an estimated population of the WUG located within Region C, as shown in Table 47.

Table 47 Derivation of Total WUG Population and Split Population in Region C (Ellis County) (2030 – 2080)

Item No.	Description	2030	2040	2050	2060	2070	2080
1	Region G Percentage of Total WUG from 2021 Plan (2080 assumed at -5%)	75%	70%	65%	60%	55%	50%
2	Revised Projected Population for FVWSC (Hill County Region G, from Table 46)	4,643	4,779	4,871	4,964	5,069	5,187

Item No.	Description	2030	2040	2050	2060	2070	2080
3	Revised Projected Total Population for FVWSC (2)/(1)	6,191	6,827	7,494	8,273	9,216	10,374
4	Revised Projected Population for FVWSC (Ellis County Region C) (3) – (2)	1,548	2,048	2,623	3,309	4,147	5,187

These revisions, in total, and when utilized along with the Brazos G RWPG's later recommendations regarding GPCD (10-year historical maximum), result in projected demands that are relatively consistent with the growth in demands recently reviewed and approved by the Brazos G RWPG in support of the Files Valley WSC's request for support of a consistency waiver.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 48, incorporating the 4.4% 10-year annual growth rate to determine the 2030 population, and the annual growth rates from the Draft projections to determine the 2040 – 2080 populations. Utilize the assumed percentages (see Table 47) between Files Valley WSC's future split between Hill County (Region G) and Ellis County (Region C).

Table 48 Summary of Requested Revisions to Population Projections for the Files Valley WSC in Hill County (2030 – 2080)

Files Valley WSC		2030	2040	2050	2060	2070	2080
HILL (Region G)	Draft 2026	2,494	2,568	2,616	2,665	2,721	2,784
	Requested Population Projections	**4,643**	**4,779**	**4,871**	**4,964**	**5,069**	**5,187**
ELLIS (Region C)	Draft 2026	848	1,024	1,214	1,406	1,617	1,850
	Requested Population Projections	**1,548**	**2,048**	**2,623**	**3,309**	**4,147**	**5,187**

The Brazos G RWPG's request employs information on recent growth reported by Files Valley WSC, the City of Hillsboro, and Aquilla WSD. The request utilizes data provided by the WUG and by TWDB to estimate the annual growth rate to accommodate this recent growth, and when taken in total with other recommendations, results in demand projections relatively consistent with those reviewed and approved in support of Files Valley WSC's recent request for support for a consistency waiver.

This request is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Gholson WSC

See the description for this WUG in the McLennan County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 49.

Table 49 Summary of Requested Revisions to Population Projections for the Gholson WSC in Hill County (2030 – 2080)

Gholson WSC		2030	2040	2050	2060	2070	2080
HILL	2026 Draft	673	694	706	719	735	752
	Requested Population Projections	**1,125**	**1,160**	**1,180**	**1,201**	**1,228**	**1,257**

City of Hillsboro

Summary of Comments Received:

1. The Brazos G RWPG received an October 12, 2022, email from Ms. Megan Henderson, City Manager for the City of Hillsboro (see Digital Attachment /HILL/HILLSBORO_1.pdf). The email noted that,

   "Hillsboro's growth is completely unregistered by the dangerously inaccurate 2020 census, so planners may be unaware of our needs. We are already limiting development density because planned projects would take us to the end of our current water allocation. Economic growth is similarly constrained now, as the limited water means we can't pursue the highest and best use for our industrial development land. The communities of Hill County, incorporated and unincorporated, need more water and the State Water Plan needs to reflect that."

2. The Brazos G RWPG received an October 12, 2022, email from Ms. Nicole Crain, Secretary of the Aquilla Water Supply District (see Digital Attachment /HILL/HILLSBORO_1.pdf). The district is primarily located in Hill County. The email notes that FVWSC and the City of Hillsboro are the Aquilla WSD's two biggest customers and expressed the need for water due to recent observed growth and subdividing of land.
3. The Brazos G RWPG received an emailed survey response on June 9, 2023, from Ms. Megan Henderson, City Manager for the City of Hillsboro. In response to the Brazos G RWPG's survey, this email provided supporting data and information to revise the Draft 2026 population and demand projections (see Digital Attachment /HILL/HILLSBORO_2.pdf).
4. The City provided a comparative analysis of historic growth over the 2010 – 2022 period to annual census estimates, noting interest in making a request to the U.S. Census Bureau for revision of the 2020 population for Hill County. The City subsequently confirmed it is starting the process of applying for a 2020 Census Count Question Resolution (CQR) to dispute the 2020 census amount (see Digital Attachment /HILL/HILLSBORO_4.pdf).
5. The City submitted an email on August 4, 2023, providing plats and exhibits for multiple areas under various stages of development (see Digital Attachment /HILL/HILLSBORO_5.pdf and assorted plat .pdf files).

Summary of Supporting Materials Received:

1. The WUG provided historic data and analyzed the City's trends over the 2010 – 2023 period for water metering and new residential construction, as well as firm and conceptual information on the City's planned development (see Digital Attachment /HILL/HILLSBORO_2).

2. The WUG provided three revised population projections, utilizing the trends and information described in Item 1. These three population projections reflected (1) historic actual growth trends; (2) additional firm development; and (3) additional conceptual development.
3. The WUG provided two revised demand projections, using the 10-year maximum per capita water usage of 187 GPCD from the WUG's historic information provided to the RWPG by TWDB, to project (1) water demand trendline based on historic actuals; and (2) water demand trendline based on the City's firm development pipeline.
4. At the county level, the WUG's comparative analysis of growth over the 2010 – 2022 period is based on an aggregation of single-family residences – including houses and mobile homes – across categories, developing an annual total for those for Hill County, then applying the calculated annual rate of growth to the Census total for 2010. The resultant estimated 2020 population using these growth rates is approximately 38,500, which is 7.3% greater than the 2020 county census population of 35,874.
5. The City provided plats and exhibits for multiple areas under various stages of development, including:
   - Electra Street and Meadow Terrace – Already platted and were purchased in 2023 for development.
   - Park Terrace – Already platted and under contract by a developer.
   - Patton's Mill Road Addition – Phase 1 is complete, Phase 2 is near completion, and Phase 3 is under development now.
   - Hillsboro Meadows – Exhibit includes all three phases of single-family, but 200 proposed units of multifamily are not shown and would go in the area south of Phase 3.
   - Canaan Estates.
   - Lowrance.

Brazos G RWPG Analysis

The 2020 Census amount used as the baseline for the City of Hillsboro population is 7,930. The City has expressed an interest in engaging with the U.S. Census Bureau to revise the 2020 census population for Hill County, a 7.3% increase based on the City's data and estimate of trends over the 2010 – 2020 period. A 7.3% increase to the 2020 Census population for the City of Hillsboro would equal a revised population of 8,510.

Analysis of the City's data on residential water meters and single-family residences indicates annual growth rates varying from 0.64% to 2.74% year-over-year over the 2019 – 2023 period. When compared to the 2020 Census population of 7,930, the City's 2030 projected population based on historic actuals represents a 2.8% annual growth rate, which is reasonably approximate to the recent 2.74% annual growth rate observed in the City's 2021-2022 single family residence data. Inclusion of the provided information on the City's firm development pipeline produces a 2030 annual growth rate of 6.6%, and with conceptual development the 2030 annual growth rate increases further to 7.6%. Beyond 2030, each of the City's projected annual growth rate decline to annual growth rates approximate to 2% by 2080.

The City's municipal population projections reflect observations of recent, rapid growth in Hill County along the I-35 corridor and represent a significant increase from the Draft projections of population growth for the City at annual growth rates approximating 0.2% over the 2030 – 2080 period.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 50, incorporating the City's 2030 – 2080 projections based on their historic actual data and their documented firm development pipeline.

Table 50 Summary of Requested Revisions to Population Projections for the City of Hillsboro in Hill County (2030 – 2080)

City of Hillsboro		2030	2040	2050	2060	2070	2080
HILL	Draft 2026	8,288	8,534	8,691	8,857	9,044	9,253
	Requested Population Projections	**14,997**	**20,963**	**27,569**	**34,881**	**42,970**	**51,914**

This request is consistent with the third and sixth criteria for adjustments, and the sixth, seventh, and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criteria Items 3, 6, and Data Items 7 and 8).

The third criterion for adjustment states, "The population growth rate for a municipal WUG over the most recent years (2015-2020) is substantially different than the growth rate between 2010 and 2020 in the draft projections. The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Johnson County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Johnson County, as shown in Table 51:

Table 51 Summary of Requested Revisions to Population Projections for Johnson County (2030 – 2080)

Johnson	2030	2040	2050	2060	2070	2080
2026 Draft	205,405	231,555	257,733	281,090	307,349	336,871
Demographic Undercount Adjustment	1,573	1,846	2,194	2,498	2,820	3,157
WUG-Specific Requests	60,048	74,964	83,776	93,060	103,954	116,489
Requested Population Projections	**267,026**	**308,365**	**343,703**	**376,648**	**414,123**	**456,517**
Net County Increase	61,621	76,810	85,970	95,558	106,774	119,646

The Brazos G RWPG received three requests for revisions to the draft population projections for WUGs within Johnson County from the City of Cleburne, Johnson County Special Utility District (SUD), and the City of Venus. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections for the City of Cleburne, Johnson County SUD, the City of Venus, and the County-Other, Johnson, WUG.

City of Cleburne

Summary of Comments Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 6, 2023, from Mr. Kevin Jaeger, Utility Engineer for the City of Cleburne (see Digital Attachment /JOHNSON/CLEBURNE_1.pdf) and attached survey response pertaining to population/demands (Digital Attachment /JOHNSON/CLEBURNE_2.pdf).
2. The email and survey noted the 2020 municipal population of 27,492 for the City differ significantly from the 2020 U.S. Census amount of 31,352 for the City of Cleburne.
3. The email and survey further noted that the City considers 3.25% a high growth rate and 1.5% a moderate growth rate, noting that the 0.25% growth rate shown in the Draft 1.0-migration scenario is not representative of historic or current growth rates.
4. The City submitted a subsequent email on July 3, 2023, from Mr. Jaeger requesting use of the estimated full-time residential population served directly by the City as reported in its TWDB Water Use Survey for the last 5 years (Digital Attachment /JOHNSON/CLEBURNE_3.pdf).
5. The City submitted a copy of its 2019 Water Supply and Reuse Integration Plan (Digital Attachment /JOHNSON/CLEBURNE_4.pdf).

Summary of Supporting Materials Received:

1. The City's 2019 Water Supply and Reuse Integration Plan provides documentation of the 1.5% and 3.25% growth rates derived for the City's long-term water supply planning.

Brazos G RWPG Analysis

In coordination with TWDB staff, the Brazos G RWPG evaluated the City of Cleburne's public water supply (PWS) boundary that was utilized for the development of the 2020 Census amount and subsequent Draft population projections. The significant difference identified by the City was determined to be due to the difference between the utility boundary and the larger Census place boundary. Communication with City staff confirmed that the smaller PWS boundary was indeed appropriate and is consistent with utility-based planning; thus, no request is made to revise the 2020 Census amount of 27,492.

The Draft projections for the City of Cleburne have an annual growth rate ranging from 0.17 – 0.3% over the 2030 – 2080 period. Per the City's request, the Brazos G RWPG reviewed the City's WUS data, wherein the City reports the estimated full-time residential population served directly by the system. Over the most recent 5-year period (2017 – 2022), the City's reported WUS population has increased in size from 30,573 to 31,999. Use of the City's 2022 WUS amount of 31,999 as a baseline, with an assumed 1.5% annual growth rate, results in projected populations over the 2030 – 2080 period that are approximate to the 1.5% growth rate reported in the City's 2019 Water Supply and Reuse Integration Plan.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 52, based on a 1.5% annual growth rate from the 2022 baseline of 31,999, consistent with the rate of growth reported in the City's 2019 Water Supply and Reuse Integration Plan.

Table 52 – Summary of Requested Revisions to Population Projections for the City of Cleburne in Johnson County (2030 – 2080)

City of Cleburne		2030	2040	2050	2060	2070	2080
JOHNSON	Draft 2026	28,207	29,041	29,843	30,360	30,959	31,652
	Requested Population Projections	**36,047**	**41,834**	**48,550**	**56,344**	**65,390**	**75,888**

This request is consistent with the third criterion for adjustments, and the seventh and eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criteria Item 3 and Data Items 7 and 8). The third criterion for adjustments states, "The population growth rate for a municipal WUG over the most recent years (2015-2020) is substantially different than the growth rate between 2010 and 2020 in the draft projections." The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Johnson County SUD

Summary of Comments Received:

1. Request for revision to population and demand.

Summary of Supporting Materials Received:

1. Revision request received by email on June 2, 2023, from Mr. Jeremiah Bihl, District Engineer for the Johnson County SUD (see Digital Attachment /Johnson/ JohnsonCountySUD_1.pdf).
2. The WUG provided their 2022 Water Master Plan, which has data on historical water connections, and average water use data over a 2011 – 2022 period of record (see Digital Attachment / Johnson/JohnsonCountySUD_2.pdf).

Brazos G RWPG Analysis

The WUG's reported 2020 connection count is 18,336 and is reported to be 20,870 for 2022 representing an annual growth rate of 6.7%. The 2020 census population of 45,092 has been used to estimate a person per connection value of 2.46. The WUG estimated 2022 total population of 51,340 represents the near-term annual growth rate of 6.7% since 2020. The 10-year historical annual growth rate derived from the WUG's WUS data over the 2013 – 2022 period is 3.15%, while the 5-year annual growth rate (2018 – 2022) is 5%, again suggesting more recent near-term growth for the WUG's overall estimated population.

These historical annual growth rates significantly differ from the Draft 2026 projected annual growth rates for the WUG, which start at a 1.3% annual growth rate from 2020 to 2030, to 1.2% in 2040, then decrease to 0.9% by 2080.

The WUG's Water Master plan provides 5-, 10-, 15- and 25-year projections of the number of connections within the WUG. Based on those projections, the following annual growth rates have been calculated for the Water Master Plan's reported planning period:

- 5-year (2022-2027) 4.86%,
- 10-year (2022-2032) 3.68%,

- 15-year (2022-2037) 3.31%,
- 25-year (2022-2047) 3.03%

Johnson County SUD serves Johnson (Region G) and Tarrant (Region C) Counties. The TWDB Draft population projections provide an estimate of the projected distribution of the population served by Johnson County SUD between these two counties, as shown in Table 53.

Table 53 Distribution as Percentage of Total Projected Population from Draft 2026 Projections of Johnson County SUD in Johnson County (Region G) and Tarrant County (Region C) (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
Johnson (Region G)	96.3%	96.6%	96.8%	96.9%	97.1%	97.3%
Tarrant (Region C)	3.7%	3.4%	3.2%	3.1%	2.9%	2.7%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 54, incorporating the revised 2022 population estimate of 51,340 from the WUG's provided data, then applying the following annual growth rates:

- 2030: 4.4% based on an estimated 2030 population of 72,538 derived from the WUG's estimated 10-year annual growth rate of 3.7%.
- 2040: 2.4%, based on an estimated 2040 population of 91,442 derived from the WUG's estimated 25-year annual growth rate of 3%.
- 2050-2080: utilize the annual growth rate from the Draft 2026 population projections for the 2050 – 2080 period.

The resultant decadal revised population projections for Johnson County SUD would then be apportioned using the decadal distribution percentages as identified in Table 53 to determine the split population projections for Johnson County SUD in the split counties.

Table 54 Summary of Requested Revisions to Population Projections for the Johnson County SUD portion in Johnson County (Region G) and Tarrant County (Region C) (2030 – 2080)

Johnson County SUD		2030	2040	2050	2060	2070	2080
JOHNSON (Region G)	2026 Draft	49,308	55,531	61,761	67,315	73,560	80,582
	Requested Population Projections	**69,832**	**88,295**	**98,435**	**107,461**	**117,620**	**129,052**
TARRANT (Region C)	2026 Draft	1,911	1,979	2,049	2,121	2,196	2,274
	Requested Population Projections	**2,706**	**3,147**	**3,266**	**3,386**	**3,511**	**3,642**

The Brazos G RWPG's request employs the reported 2022 total connections provided by the WUG to estimate population. The request also reflects the WUG's projections of future growth by incorporating annual growth rates from the water master plan to estimate 2030 and 2040 total population projections for Johnson County SUD and incorporates the TWDB's annual growth rates derived from the Draft projections for the WUG for the long-term 2050 – 2080 population projections.

This request is based on data provided by Johnson County SUD and information reported by the TWDB and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Venus

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on May 25, 2023, from Jenny Holt, Public Works Supervisor for the City of Venus (see Digital Attachment /Johnson/Venus_1.pdf).
2. The City of Venus reports three new municipal utility districts (MUDs) are in development which are estimated by the City to increase the number of connections by 17,600. Documentation regarding the proposed MUDs could not be provided due to non-disclosure agreements.

Brazos G RWPG Analysis

The City's estimated full time residential population served directly by the system is anticipated to increase by 17,600 homes or an estimated 35,200 persons. Based on the City's WUS reports the 10-year (2012-2021) annual growth rate is 1.86% which is greater than the Draft 2026 near term growth rate of -0.69%. The WUS data also suggests that the 5-year (2017-2021) annual growth rate is 2.47% which suggests near term growth in the WUG.

Brazos G RWPG Request

1. The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 55, incorporating the WUG's reported near-term development for the estimation of 2030 population, then utilize the annual growth rate from the Draft 2026 population projections for the 2040 – 2080 period:

Table 55 Summary of Requested Revisions to Population Projections for City of Venus in Johnson County (2030 – 2080)

City of Venus	2030	2040	2050	2060	2070	2080
2026 Draft	2,416	2,266	2,121	1,967	1,824	1,691
Requested Population Projections	**37,789**	**35,443**	**33,175**	**30,766**	**28,529**	**26,449**

This request is consistent with the fifth criteria for adjustment identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 5). The fifth criterion is, "Updated information regarding the utility or public water system service area or anticipated near-term changes in service area."

This request is also consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

County-Other, Johnson

Summary of Comments Received:

1. No requests received.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Analysis

The WUG-specific requests in Johnson County significantly exceed the Draft 2026 municipal populations projected for the County-Other, Johnson, WUG. The requested amounts exhibit an annual growth rate of 2.5%; thus, an annual growth rate of -2.5% has been applied to adjust the Draft 2026 population projections over the 2030-2080 period to reflect expansion of the requesting WUG's service areas.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the Draft 2026 population projections for the County-Other, Johnson, WUG to the amounts shown in Table 56.

Table 56 Summary of Requested Revisions to Population Projections for County-Other, Johnson (2030-2080)

County-Other Johnson	2030	2040	2050	2060	2070	2080
2026 Draft	16,494	16,854	11,886	8,356	5,555	4,360
Requested Population Projections	**12,805**	**13,084**	**9,227**	**6,487**	**4,313**	**3,385**

Lampasas County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Lampasas County, as shown in Table 57.

Table 57 Summary of Requested Revisions to Population Projections for Lampasas County (2030 – 2080)

Lampasas	2030	2040	2050	2060	2070	2080
2026 Draft	22,886	23,707	23,815	23,542	23,235	22,890
Demographic Undercount Adjustment	9	10	10	10	10	9
WUG-Specific Requests	7,154	8,903	11,212	14,349	18,315	22,428
Requested Population Projections	**30,049**	**32,620**	**35,037**	**37,901**	**41,560**	**45,327**
Net County Increase	7,163	8,913	11,222	14,359	18,325	22,437

The Brazos G RWPG received four requests for revisions to the draft population projections for WUGs within Lampasas County from the City of Copperas Cove, Corix Utilities Texas, Inc., Kempner WSC, and the City of Lampasas. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections for the City of Copperas Cove, Corix Utilities, Kempner WSC, and the City of Lampasas.

City of Copperas Cove

See the description for this WUG in the Coryell County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 58.

Table 58 Summary of Requested Revisions to Population Projections for City of Copperas Cove in Lampasas County (2030 – 2080)

Copperas Cove		2030	2040	2050	2060	2070	2080
LAMPASAS	2026 Draft	742	769	773	763	753	742
	Requested Population Projections	**1,429**	**2,378**	**3,705**	**5,709**	**8,427**	**11,160**

Corix Utilities Texas, Inc.

See the description for this WUG in the Washington County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 59.

Table 59 Summary of Requested Revisions to Population Projections for Corix Utilities Texas, Inc. in Lampasas County (2030 – 2080)

Corix Utilities Texas, Inc.		2030	2040	2050	2060	2070	2080
LAMPASAS (Region G)	2026 Draft	2,653	2,749	2,762	2,730	2,694	2,654
	Requested Population Projections	**7,252**	**7,514**	**7,550**	**7,463**	**7,365**	**7,256**

Kempner WSC

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document). The WUG already serves a population greater than the TWDB Regional Water Plan 2030 projected population.

Summary of Supporting Materials Received:

1. Revision request received by phone on June 6, 2023, with Mr. Bruce Sorenson, General Manager, for Kempner WSC.
2. The WUG provided information on number of meter connections, and existing population estimates, and the 2021 Water Use Survey submitted to the TWDB (see Digital Attachment / Lampasas/KempnerWSC.pdf).

Brazos G RWPG Analysis

The WUG's 2021 Water Use Survey reported an estimated population of 20,055, approximately 14.3% greater than the estimated Draft 2030 population of 17,543 from the projections provided to the Brazos G RWPG by TWDB.

Kempner WSC serves Bell, Burnet, Coryell, and Lampasas Counties. The Draft 2026 population projections provide an estimate of the projected distribution of the population served by Kempner WSC between these four counties, as shown in Table 60.

Table 60 Distribution as Percentage of Total Projected Population from Draft 2026 Projections of Kempner WSC in Bell, Coryell, and Lampasas Counties (Region G) and Burnet County (Region K) (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
BELL	12.7%	13.4%	14.1%	14.7%	15.4%	16.3%
BURNET	3.2%	3.0%	2.9%	2.8%	2.6%	2.5%
CORYELL	24.3%	24.0%	24.0%	23.9%	23.8%	23.7%
LAMPASAS	59.8%	59.6%	59.1%	58.6%	58.1%	57.5%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 61, incorporating the revised 2021 population estimate of 20,055 from the WUG's provided data as the 2030 projected population, then using the decadal growth rates used by the TWDB for the 2026 draft population projections:

- 2040: 3.85%, consistent with the decadal rate used by the TWDB.
- 2050: 1.34%, consistent with the decadal rate used by the TWDB.
- 2060: -0.41%, consistent with the decadal rate used by the TWDB.
- 2070: -0.44%, consistent with the decadal rate used by the TWDB.
- 2080: -0.49%, consistent with the decadal rate used by the TWDB.

The resultant decadal revised population projections for Kempner WSC would then be apportioned using the decadal distribution percentages as identified in Table 60 to determine the split population projections for Kempner WSC in the split counties.

Table 61 Summary of Requested Revisions to Population Projections for Kempner WSC in Bell, Coryell, and Lampasas Counties (Region G) and Burnet County (Region K) (2030 – 2080)

Kempner WSC		2030	2040	2050	2060	2070	2080
BELL (Region G)	Draft 2026	2,224	2,438	2,601	2,707	2,826	2,961
	Requested Population Projections	**2,543**	**2,787**	**2,974**	**3,095**	**3,232**	**3,385**
BURNET (Region K)	Draft 2026	567	548	531	508	483	454
	Requested Population Projections	**648**	**627**	**608**	**580**	**553**	**519**

Kempner WSC		2030	2040	2050	2060	2070	2080
CORYELL (Region G)	Draft 2026	4,308	4,350	4,305	4,197	4,075	3,938
	Requested Population Projections	**4,881**	**4,998**	**5,057**	**5,020**	**4,982**	**4,943**
LAMPASAS (Region G)	Draft 2026	10,482	10,860	10,908	10,782	10,641	10,479
	Requested Population Projections	**11,983**	**12,415**	**12,471**	**12,328**	**12,166**	**11,981**
TOTAL	Draft 2026	17,581	18,196	18,345	18,194	18,025	17,832
	Requested Population Projections	**20,055**	**20,827**	**21,110**	**21,023**	**20,932**	**20,828**

The Brazos G RWPG's request employs the reported 2021 Water Use Survey population estimate provided by the WUG to the TWDB. This request reflects the WUG's recent growth with future projections consistent with the TWDB's growth rates derived from the Draft projections for the WUG for the long-term 2040 – 2080 population projections.

This request is based on data provided by Kempner WSC and information reported by the TWDB and is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Lampasas

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document). Population projections in the 2021 Regional Water Plan are more consistent with growth occurring in the area.

Summary of Supporting Materials Received:

1. Revision request received by phone on July 6, 2023, with Mr. Jason Jones, from Jones-Heroy & Associates, Inc., consulting engineer for the City of Lampasas.
2. The WUG provided data on the WUG's existing system and service area, and historical (2017-2021) and projected system growth (2022-2031) (see Digital Attachment /Lampasas/Lampasas_1.pdf).

Brazos G RWPG Analysis

The WUG's reported 2021 Water Use Survey estimated population served is 7,821 with 3,022 residential connections, which is 2.6 people per connection. The WUG has approximately 557 non-residential connections (2021 Water Use Survey); therefore 84% of the WUG's connections are residential. The Preliminary Engineering Report provided by the WUG, which uses a 2% annual growth projection based on recent historical data (2017-2021), projects 4,290 total service area active meters in 2030. Approximately 3,623 meters (84%) of the 4,290 would be residential water connections. At 2.6 people per connection, the projected 2030 population is 9,420.

While a 2% growth rate for total active meters has been indicated in recent historic trends and used in the Preliminary Engineering Report, the WUG requested that a 1% annual increase be used starting with the WUG's 2020 census

population of 7,786. This 1% annual growth rate results in a population of 8,600 in the year 2030, which aligns the WUG's near term population projections with those projected in the 2021 Regional Water Plan for the 2030 decade.

The WUG's historical annual growth rate significantly differs from the Draft projected annual growth rates, which start at a 0.4% annual growth rate from 2030 to 2040, to 0.05% in 2050, then decreasing to -0.11%, -0.13%, and -0.14% in 2060, 2070, and 2080, respectively. The WUG does not believe their population will decrease provide the area served has sufficient room and additional water supply to accommodate additional connections.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 62, incorporating the revised 2030 projected population estimate of 8,600 calculated 2020 Census Population and reflecting the WUG's growth projections from their provided data, then applying the following annual growth rate:

- 2040-2080: 1.0%, based on the land available within the WUG's service area for expansion and future projected annual growth rate.

Table 62 Summary of Requested Revisions to Population Projections for the City of Lampasas in Lampasas County (2030 – 2080)

City of Lampasas	2030	2040	2050	2060	2070	2080
2026 Draft	8,233	8,526	8,566	8,469	8,361	8,240
Requested Population Projections	**8,600**	**9,500**	**10,495**	**11,593**	**12,806**	**14,146**

The Brazos G RWPG's request employs a consistent 1% annual growth increase consistent with the WUG's growth projections. The request reflects the population projections used in the previous regional planning cycle and reflects the WUG's projections by incorporating both a 5-year historic growth trend and 10-year projected growth for the City of Lampasas' water system.

This request is based on data provided by the City of Lampasas and information reported by the TWDB and is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Lee County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft projected population amounts is requested for Lee County, as shown in Table 63:

Table 63 Summary of Requested Revisions to Population Projections for Lee County (2030 – 2080)

Lee	2030	2040	2050	2060	2070	2080
2026 Draft	18,407	18,675	18,408	18,062	17,673	17,236
Demographic Undercount Adjustment	274	277	273	269	263	256

Lee	2030	2040	2050	2060	2070	2080
WUG-Specific Requests	557	565	557	546	534	521
Requested Population Projections	**19,238**	**19,517**	**19,238**	**18,877**	**18,470**	**18,013**
Net County Increase	831	842	830	815	797	777

The Brazos G RWPG received one request for revisions to the draft population projections from WUGs within Lee County from the City of Lexington. Based on the information provided by the WUG, the Brazos G RWPG requests revisions to the draft population projections for the City of Lexington WUG.

City of Lexington

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on June 21, 2023, from Bradley Loehr, consulting engineer for the City of Lexington (see Digital Attachment /Lee/Lexington_1.pdf).
2. The WUG provided a copy of their current Water Conservation Plan (see Digital Attachment /Lee/Lexington_2.pdf), documenting the WUG's population served in terms of the 2020 census.

Brazos G RWPG Analysis

The City of Lexington's Water Conservation Plan estimates the full-time residential population served directly by the system to be 1,850 in 2020, which is greater than the estimated 2020 census population of 1,322. Review of the City's Water Use Survey submitted to the TWDB provides an estimated 2020 population of 2,376. The annual growth rate of the populations reported in the City's Water Use Surveys over the ten-year period (2012-2021) equates to 0.53%, which is equivalent to the Draft 2026 near-term growth rate of 0.53% used to estimate the 2030 population projected for the City of Lexington.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 64, incorporating a revised 2020 population estimate of 1,850 from Lexington's Water Conservation Plan, utilizing the annual growth rate from the Draft 2026 population projections for the 2030 – 2080 period:

Table 64 Summary of Requested Revisions to Population Projections for the City of Lexington in Lee County (2030 – 2080)

City of Lexington	2030	2040	2050	2060	2070	2080
2026 Draft	1,394	1,414	1,393	1,366	1,335	1,302
Requested Population Projections	**1,951**	**1,979**	**1,950**	**1,912**	**1,869**	**1,823**

This request is consistent with the second criteria for adjustment identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 2). The second criterion is, "The 2010 or 2020 permanent population-served estimate by a municipal WUG is significantly different than the 2010 or 2020 baseline population estimate used in the draft projections."

This request is also consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

McLennan County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft projected population amounts is requested for McLennan County, as shown in Table 65.

Table 65 – Summary of Requested Revisions to Population Projections for McLennan County (2030 – 2080)

McLennan	2030	2040	2050	2060	2070	2080
2026 Draft	287,633	311,844	332,636	354,573	379,236	406,963
Demographic Undercount Adjustment	3,951	4,311	4,627	4,969	5,360	5,793
WUG-Specific Requests	-3,951	-4,311	-4,627	-4,969	-5,360	-5,793
Requested Population Projections	**287,633**	**311,844**	**332,636**	**354,573**	**379,236**	**406,963**
Net County Increase	0	0	0	0	0	0

The Brazos G RWPG received fifteen requests for revisions to the draft population projections from WUGs within McLennan County, including Axtell Water Supply Corporation, Bruceville-Eddy, Chalk Bluff Water Supply Corporation, East Crawford Water Supply Corporation, EOL Water Supply Corporation, Gholson Water Supply Corporation, Hewitt, Leroy Tours Gerald Water Supply Corporation, Levi Water Supply Corporation, McGregor, Moody, Riesel, Texas State Technical College, Windsor Water, and Woodway. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections for all fifteen, as well as the County-Other, McLennan, WUG.

Axtell WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Ms. Tricia Freytag, Manager/Operator for the Axtell Water Supply Corporation.
2. The WUG provided data on recent water connection sales and trends (see Digital Attachment/McLennan/Axtell_WSC_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is 640. The WUG has been adding ten connections per year on average. To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate

of 2.5 people per connection for this WUG equates to a current population of 1,600 as of June 9, 2023, a number that the Draft 2026 projections do not reach until between 2060 and 2070.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 66, incorporating a revised population based on an estimated 2.5 people per connection, starting with 640 connections in 2023 and increasing by 10 connections each year.

Table 66 Summary of Requested Revisions to Population Projections for the Axtell WSC portion in McLennan County (2030 – 2080)

Axtell WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	1,241	1,340	1,425	1,513	1,614	1,726
	Requested Population Projections	**1,775**	**2,025**	**2,275**	**2,525**	**2,775**	**3,025**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the WUG's reporting of recent growth as exhibited by an average increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Bruceville-Eddy

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by email on June 5, 2023, from Mr. Kent Manton, City Administrator for the City of Bruceville-Eddy via attachment (see Digital Attachment /McLennan/Bruceville-Eddy_1.pdf).
2. The WUG provided data on current water use, and contests the idea that the City, located along the I-35 growth corridor and part of the City of Waco metropolitan statistical area, would be decreasing in population. Their water demand continues to increase due to increased connections.

Brazos G RWPG Analysis

Data obtained from the TWDB Historical Water Use Survey Data for Public Water Systems provides self-reported population served from the year 2010 to 2021. The overall annual growth rate from 2010 to 2021 was approximately 0.65%; the near-term annual growth rate from 2016 to 2021 was approximately 1.44%.

These historical annual growth rates significantly differ from the Draft projected annual growth rates (1.0-migration rate), which start at a 1.42% annual growth rate from 2020 to 2030 and decrease throughout the planning period to 0.6% by 2080.

The City of Bruceville-Eddy serves Falls and McLennan Counties. The TWDB Draft population projections provide an estimate of the projected distribution of the population served by the City of Bruceville-Eddy between these two counties. However, this distribution was deemed inappropriate for use since the Draft population was estimated to decline. Therefore, the projected distribution used in the 2021 Water Plan was employed, as shown in Table 67.

Table 67 Distribution as Percentage of Total Projected Population from 2021 Water Plan Projections of the City of Bruceville-Eddy (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
FALLS	19.0%	23.5%	23.5%	23.5%	23.5%	24.9%
MCLENNAN	81.0%	76.5%	76.5%	76.5%	76.5%	75.1%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 68, incorporating the revised 2021 population estimate of 5,802 from the WUG's provided data, then applying the following annual growth rates:

- 2030: 1.44%, based on the WUG's recent 5-year annual growth rate over the 2016 – 2021 period.
- 2040-2080: 0.65%, based on the WUG's longer-term 10-year annual growth rate over the 2010 – 2021 period.

The resultant decadal revised population projections for the City of Bruceville-Eddy would then be apportioned using the decadal distribution percentages as identified in Table 67 to determine the split population projections for the City of Bruceville-Eddy in the split counties.

Table 68 Summary of Requested Revisions to Population Projections for the City of Bruceville-Eddy portion in McLennan County (2030 – 2080)

City of Bruceville-Eddy		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	3,737	3,505	3,312	2,998	2,660	2,295
	Requested Population Projections	**5,343**	**5,387**	**5,750**	**6,138**	**6,551**	**6,869**

The Brazos G RWPG's request reflects the use of historical data provided by TWDB, incorporating both 5-year and 10-year annual growth rates from the recent observed record to estimate 2030 through 2080 total population projections for the City of Bruceville-Eddy.

This request is based on information reported by the TWDB and is consistent with the third and eighth criteria for adjustment identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 3 and 8). The third criterion is, "The population growth rate for a municipal WUG over the most recent years (2015-2020) is substantially different than the growth rate between 2010 and 2020 in the draft projections." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Chalk Bluff WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Ms. Elizabeth Clinard, Secretary for the Chalk Bluff Water Supply Corporation.
2. The WUG provided data on current water connections and historical trends (see Digital Attachment/McLennan/ChalkBluff_WSC_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is 1,303. The WUG added 22 connections in calendar year 2022. To estimate population based on the number of connections, the TCEQ uses 3 people per connection. Using a more conservative estimate of 2.5 people per connection for this WUG equates to a current population of 3,258 as of June 9, 2023, a number that the Draft 2026 projections do not reach within the current planning period.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 69, incorporating a revised population based on an estimated 2.5 people per connection, starting with 1,303 connections in 2023 and increasing by 20 connections each year.

Table 69 Summary of Requested Revisions to Population Projections for the Chalk Bluff WSC portion in McLennan County (2030 – 2080)

Chalk Bluff WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	2,702	2,702	2,702	2,702	2,702	2,702
	Requested Population Projections	**3,608**	**4,108**	**4,608**	**5,108**	**5,608**	**6,108**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the WUG's reporting of recent growth as exhibited by a recent increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

County-Other, McLennan

Summary of Comments Received:

1. No requests received.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Analysis

The WUG-specific population revision amounts requested in McLennan County include an assumption that some of these WUGs would expand their service area, reducing the County-Other geographic area. Thus, the County-Other WUG is being reduced by an amount equivalent to those revision requests to reflect expansion of the requesting WUGs' service areas.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the Draft 2026 population projections for the County-Other, McLennan, WUG to the amounts shown in Table 70.

Table 70 Summary of Requested Revisions to Population Projections for County-Other, McLennan in McLennan County (2030 – 2080)

County-Other, McLennan		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	19,570	22,057	23,587	25,214	26,943	28,800
	Requested Population Projections	**4,917**	**6,706**	**7,078**	**7,231**	**7,578**	**8,366**

East Crawford WSC

Summary of Comments Received:

1. Request for revision to population projections and per capita usage (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Ms. Linda Brandon, Water System Operator for the East Crawford Water Supply Corporation.
2. The WUG provided data on current water connections and current growth constraints (see Digital Attachment/McLennan/EastCrawford_WSC_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is 324. They have not been able to sell connections for five years due to an administrative challenge, but they do report 70 current requests for connections.

The WUG currently has 55-58% water loss and has been awarded $496,000 in grant funds to address these losses. According to Ms. Brandon, their engineer said that addressing the water loss will enable the WUG to go from 324 connections (current) to 1,000; the WUG would then be limited by their groundwater source.

To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 810 as of June 9, 2023, a number that the Draft 2026 projections reach between the years 2030 and 2040 based on the 1.0-migration scenario.

Assuming the water loss and administrative challenges are both addressed, and the current backlog of connection requests are fulfilled by 2030, this would equate to a population of 985 by 2030. Following 2030, the draft 2026 TWDB annual growth rate was applied, as follows:

- 2040: 0.53%, based on the calculated annual growth rate for the total WUG system for 2040 from the Draft 2026 projections.
- 2050: 0.43% – based on the calculated annual growth rate for the total WUG system for 2050 from the Draft 2026 projections.
- 2060: 0.38%- based on the calculated annual growth rate for the total WUG system for 2060 from the Draft 2026 projections.
- 2070: 0.43%- based on the calculated annual growth rate for the total WUG system for 2070 from the Draft 2026 projections.
- 2080: 0.45%- based on the calculated annual growth rate for the total WUG system for 2080 from the Draft 2026 projections.

Further, if the water loss is addressed, the per capita usage will be much less than that provided in the Draft 2026 projections.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 71, incorporating a revised population based on an estimated 2.5 people per connection, starting with 324 connections in 2023 and increasing by the annual growth rates provided in the Draft 2026 projections.

Table 71 Summary of Requested Revisions to Population Projections for the East Crawford WSC portion in McLennan County (2030 – 2080)

East Crawford WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	776	818	854	887	926	969
	Requested Population Projections	**985**	**1,038**	**1,084**	**1,126**	**1,175**	**1,230**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections plus a backlog of connection requests provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ) to estimate a 2030 population. Following 2030, the request reflects the TWDB draft annual growth rate.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests a revision to the baseline per capita usage to 157 GPCD, as it is a more appropriate per capita use based on the assumption the water loss challenges will be addressed.

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

Elm Creek WSC

See the description for this WUG in the Bell County section for details on the supporting information and rationale for this WUG's requested revision.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 72.

Table 72 Summary of Requested Revisions to Population Projections for Elm Creek WSC portion in McLennan County (2030-2080)

Elm Creek WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	Draft 2026	1,136	1,201	1,257	1,310	1,371	1,440
	Requested Population Projections	**1,415**	**1,491**	**1,576**	**1,680**	**1,788**	**1,900**

EOL WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Mr. Fred Kubitza, Operator for the EOL Water Supply Corporation.
2. The WUG provided data on current water connections and historical growth (see Digital Attachment/McLennan/EOLWSC_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is 700. The WUG reports they have been growing steadily, and typically sell 5-7 additional connections per year.

To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 1,750 as of June 9, 2023, a number that the Draft 2026 projections do not reach over the 2030 – 2080 period.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 73, incorporating a revised population based on an estimated 2.5 people per connection, starting with 700 connections in 2023 and increasing by 7 connections each year.

Table 73 Summary of Requested Revisions to Population Projections for EOL WSC portion in McLennan County (2030-2080)

EOL WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	1,386	1,201	1,046	821	579	311
	Requested Population Projections	**1,873**	**2,048**	**2,223**	**2,398**	**2,573**	**2,748**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects reported growth trends.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Gholson WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on June 1, 2023, from Mr. Jamie Rager, Office Manager for the Gholson Water Supply Corporation (see Digital Attachment/McLennan/GholsonWSC_1.pdf).
2. The WUG provided data on historical water connections served, estimated population, water pumped, and water sold from 2012 to 2023 (to date), as well as estimated growth projections for the years 2026, 2030, 2040, 2050, and 2060.

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 1, 2023, is 1,262. Since 2012, the WUG reports having added between 5 and 71 connections per year.

To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Gholson WSC has utilized the 3 people per connection amount to develop their estimates, which equates to a current population of 3,786 as of June 1, 2023, a number that the Draft 2026 projections for the WUG do not reach until between the years of 2060 and 2070. To estimate the number of additional connections per year, Gholson WSC used the average number of connections added per year between 2017 and 2022, which was 36.2.

The Brazos G RWPG used Gholson's method to estimate the population for the year 2030. Following 2030, the Draft 2026 TWDB annual growth rate was applied, as follows:

- 2040: 1.16%, based on the calculated annual growth rate for the total WUG system for 2040 from the Draft 2026 projections.
- 2050: 0.87% – based on the calculated annual growth rate for the total WUG system for 2050 from the Draft 2026 projections.
- 2060: 0.93%- based on the calculated annual growth rate for the total WUG system for 2060 from the Draft 2026 projections.
- 2070: 0.94%- based on the calculated annual growth rate for the total WUG system for 2070 from the Draft 2026 projections.
- 2080: 0.95%- based on the calculated annual growth rate for the total WUG system for 2080 from the Draft 2026 projections.

Gholson WSC serves Hill and McLennan Counties. The TWDB Draft population projections provide an estimate of the projected distribution of the population served by Gholson WSC between these two counties, as shown in Table 74.

Table 74 Distribution as Percentage of Total Projected Population from Draft 2026 Projections of Gholson WSC (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
HILL	24.7%	22.7%	21.1%	19.6%	18.3%	17.0%
MCLENNAN	75.3%	77.3%	78.9%	80.4%	81.7%	83.0%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 75, incorporating Gholson WSC's population projections based on an estimated 3 people per connection, starting with 1,262 connections in 2023 and increasing the number of connections each year by 36.2 for the near-term projected population growth by 2030, then applying the annual growth rates from the Draft 2026 population projections for the 2040 – 2080 period.

The resultant decadal revised population projections for Golson WSC would then be apportioned using the decadal distribution percentages as identified in Table 74 to determine the split population projections for Gholson WSC in the split counties.

Table 75 Summary of Requested Revisions to Population Projections for Gholson WSC portion in McLennan County (2030-2080)

Gholson WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	Draft 2026	2,056	2,369	2,635	2,945	3,289	3,672
	Requested Population Projections	**3,435**	**3,958**	**4,403**	**4,921**	**5,496**	**6,136**

The Brazos G RWPG's request employs the number of retail water connections provided by the WUG between 2017 and 2022 and an estimate of people per connection equivalent to that used by the TCEQ, plus the annual growth rate provided by TWDB in the draft projections.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Hewitt

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on June 8, 2023, from Mr. Kevin Reinke, Utilities Director for the City of Hewitt (see Digital Attachment/ McLennan/ Hewitt_1.pdf).
2. Mr. Reinke indicated he believed the numbers beyond 2030 to be high, as they do not have the ability to expand their service area.

Brazos G RWPG Analysis

The WUG has indicated that the remainder of the undeveloped parcels of land will be developed by 2030 and growth will stop by that time.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 76, incorporating the Draft 2026 annual growth rate for the 2030 population projection, then maintaining a constant population throughout the 2030 – 2080 planning period.

Table 76 Summary of Requested Revisions to Population Projections for the City of Hewitt portion in McLennan County (2030 – 2080)

City of Hewitt		2030	2040	2050	2060	2070	2080
MCLENNAN	Draft 2026	17,127	18,310	19,328	20,350	21,506	22,814
	Requested Population Projections	**17,127**	**17,127**	**17,127**	**17,127**	**17,127**	**17,127**

The Brazos G RWPG's request employs the Draft 2026 projection for this WUG for 2030 and aligns with the WUG's requested build-out.

This request is based on input from the City of Hewitt and information provided by the TWDB and is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Leroy Tours Gerald WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on June 8, 2023, from Danny Hays of KSA Engineers, serving as engineer for Leroy Tours Gerald Water Supply Corporation (see Digital Attachment/McLennan/LeroyToursGeraldWSC_1.pdf).
2. The document is a preliminary engineering report to assess system deficiencies with respect to current and future system populations, developed with the intent that the document could serve as an application for a low interest loan from the United States Department of Agriculture.

Brazos G RWPG Analysis

The population projections provided by the WUG are based on the base year (2019) number of system connections (540) multiplied by an average household size of 2.66. The projected population was calculated using the average annual growth rate adopted for the WUG for the purposes of the 2021 Water Plan. The WUG-estimated population in 2019 was 1,437; subsequent calculations resulted in an estimated 2030 population of 1,557. The WUG-estimated 2030 population is approximately 6.86% higher than that provided in the Draft 2026 population projections for 2030. The WUG-estimated 2080 population of 2,978 (assuming the WUG's assumed rate of growth remains constant from 2060 through 2080) is approximately 58.3% higher than that provided in the Draft 2026 population projections for 2080.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 77, incorporating Leroy Tours Gerald WSC's population projections as used for project planning and loan application.

Table 77 Summary of Requested Revisions to Population Projections for Leroy Tours Gerald WSC portion in McLennan County (2030-2080)

Leroy Tours Gerald WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	Draft 2026	1,457	1,547	1,624	1,699	1,784	1,881
	Requested Population Projections	**1,557**	**1,658**	**1,761**	**1,863**	**1,962**	**1,972**

The Brazos G RWPG's request employs the number of retail water connections at the base year 2019, provided by the WUG, an estimate of people per connection less than that used by the TCEQ, and the annual growth rate used in the 2021 Water Plan.

This request is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Levi WSC

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via phone call on June 8, 2023, from Mr. Jim Sheffield, General Manager for the Levi Water Supply Corporation.
2. The WUG provided data on current water connections served and current application backlog (see Digital Attachment/McLennan/Levi_WSC_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 8, 2023, is 823, and the WUG has applications for an additional 200 once they can obtain a new water source.

To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 2,058 as of June 8, 2023, a number that the Draft 2026 projections do not reach. Subsequent years applied the annual growth rate provided by TWDB in the draft population projections as follows:

- 2030: 0.91%, based on the calculated annual growth rate for the total WUG system for 2040 from the Draft 2026 projections.
- 2040: 0.91%, based on the calculated annual growth rate for the total WUG system for 2040 from the Draft 2026 projections.
- 2050: 0.78% – based on the calculated annual growth rate for the total WUG system for 2050 from the Draft 2026 projections.
- 2060: 0.56%- based on the calculated annual growth rate for the total WUG system for 2060 from the Draft 2026 projections.
- 2070: 0.57%- based on the calculated annual growth rate for the total WUG system for 2070 from the Draft 2026 projections.
- 2080: 0.56%- based on the calculated annual growth rate for the total WUG system for 2080 from the Draft 2026 projections.

Levi WSC serves both Falls and McLennan Counties. The Draft 2026 population projections provide an estimate of the projected distribution of the population served by Levi WSC between these two counties, as shown in Table 78.

Table 78 Distribution as Percentage of Total Projected Population from Draft 2026 Projections of Levi WSC (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
FALLS	17.9%	21.4%	24.5%	26.2%	27.6%	28.7%
MCCLENNAN	82.1%	78.6%	75.5%	73.8%	72.4%	71.3%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 79, incorporating Levi WSC's population projections based on an estimated 2.5 people per connection, starting with 823 connections in 2023, then applying TWDB's draft annual growth rates from 2023 through the planning period.

The resultant decadal revised population projections for Levi WSC would then be apportioned using the decadal distribution percentages as identified in Table 78 to determine the split population projections for Levi WSC in the split counties.

Table 79 Summary of Requested Revisions to Population Projections for Levi WSC portion in McLennan County (2030-2080)

Levi WSC		2030	2040	2050	2060	2070	2080
MCLENNAN	Draft 2026	853	894	929	960	996	1,037
	Requested Population Projections	**1,800**	**1,887**	**1,961**	**2,026**	**2,102**	**2,189**

The Brazos G RWPG's request employs the current number of retail water connections provided by the WUG, a conservative estimate of people per connection, and an estimated increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of McGregor

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by email on June 13, 2023, from Mr. Chad Saylors, Director of Public Works for the City of McGregor (see Digital Attachment /McLennan/McGregor_1.pdf).
2. The WUG provided data regarding the number of planned housing units (presented or under development) and large tracts of land intended for development that are for sale, as well as confirmed/pending industrial facility jobs.

Brazos G RWPG Analysis

The total estimated housing units being planned or under development equate to 1,246 units. The total estimated housing units with development agreements equate to 1,116 units, totaling 2,362 units. Using a conservative 2.5 people per housing unit results in an estimated 5,905 people that will be added to the City's service in the near term. The confirmed and possible jobs in the industrial park are estimated to be between 750 and 1200; the WUG-provided data equated each of those jobs with 2 adults and 2.5 children, which results in a range of new full-time residents between 3,375 and 5,400.

The Brazos RWPG chose to use conservative assumptions, including the addition of one-half of the estimated additional residents via new housing provided by the WUG and one-half of the low end of the estimated range of new residents added via new industrial jobs provided by the WUG; this equates to a total of 4,640 people expected prior to 2030. The population estimate for 2030 was derived from the 2023 census estimate provided by the WUG of 5,321 plus 4,640 people, or 9,961 people, which is approximately 74.2% higher than the Draft 2026 population projection for 2030.

Subsequent years applied the annual growth rate provided by TWDB in the draft population projections as follows:

- 2040: 0.55%, based on the calculated annual growth rate for the total WUG system for 2040 from the Draft 2026 projections.
- 2050: 0.45% – based on the calculated annual growth rate for the total WUG system for 2050 from the Draft 2026 projections.
- 2060: 0.40%- based on the calculated annual growth rate for the total WUG system for 2060 from the Draft 2026 projections.
- 2070: 0.44%- based on the calculated annual growth rate for the total WUG system for 2070 from the Draft 2026 projections.
- 2080: 0.49%- based on the calculated annual growth rate for the total WUG system for 2080 from the Draft 2026 projections.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 80, incorporating the revised 2030 population estimate of 9,961 from the WUG's provided data, then applying the Draft 2026 annual growth rate.

Table 80 Summary of Requested Revisions to Population Projections for the City of McGregor in McLennan County (2030 – 2080)

City of McGregor		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	5,717	6,038	6,316	6,576	6,874	7,213
	Requested Population Projections	**9,961**	**10,520**	**11,005**	**11,458**	**11,977**	**12,573**

The Brazos G RWPG's request employs census data from 2020, estimated additional residents via new housing and industrial facilities (as provided by the WUG), and the Draft 2026 annual growth rate.

This request is based on data provided by the City of McGregor and is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Moody

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 12, 2023, with Mr. Keith Fisher, Director of Public Works for the City of Moody.
2. The WUG provided data on recent water connection sales and trends (see Digital Attachment/McLennan/Moody_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 12, 2023, is 677. The WUG has been adding ten connections per year on average. To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 1,693 as of June 12, 2023, a number that the Draft 2026 projections does not reach in the entire planning period.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 81, incorporating a revised population based on an estimated 2.5 people per connection, starting with 677 connections in 2023 and increasing by 10 connections each year.

Table 81 Summary of Requested Revisions to Population Projections for the City of Moody portion in McLennan County (2030 – 2080)

City of Moody		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	1,534	1,564	1,591	1,599	1,611	1,627
	Requested Population Projections	**1,868**	**2,118**	**2,368**	**2,618**	**2,868**	**3,118**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the WUG's reporting of recent growth as exhibited by an average increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Riesel

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on June 5, 2023, from Terry Winn, Vice President with STV Group, serving as the City of Riesel's engineer (see Digital Attachment/McLennan/Riesel_1.pdf).
2. The WUG provided data on historical growth rates from 2002 to 2023 and a typical value for people per water service connection.

Brazos G RWPG Analysis

The rate of growth over the 21-year period provided by the WUG equates to 3.5 connections added each year. The census data for years 2010 and 2020 indicate a typical population of 2.39 people per connection. These values were used to project population through the planning period.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 82, incorporating a revised population based on an estimated 2.39 people per connection, starting with 491 connections in 2023, and increasing by 3.5 connections each year.

Table 82 Summary of Requested Revisions to Population Projections for the City of Riesel portion in McLennan County (2030 – 2080)

City of Riesel		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	994	1,036	1,072	1,101	1,136	1,176
	Requested Population Projections	**1,231**	**1,314**	**1,398**	**1,482**	**1,565**	**1,649**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG, an estimated number of people per connection (less than that used by the TCEQ), and an estimated increase in connections per year.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Texas State Technical College

Summary of Comments Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 5, 2023, from Mr. Manuel Perez with Texas State Technical College (TSTC) (see Digital Attachment /MCLENNAN/TSTC_1.pdf).
2. The email indicates that TSTC expects the population to be approximately 1,000, and that projections should either remain consistent with that estimate or decrease, as 300 houses were recently demolished.

Summary of Supporting Materials Received:

1. No supporting documentation.

Brazos G RWPG Analysis

The Brazos G RWPG reviewed the historical 2010 – 2019 WUS populations provided by TWDB, which indicated a constant population of approximately 425 over the entire period. The 2020 Census amount used for the Draft projections is 2,057. The population projections adopted for the 2021 Brazos G Water Plan range from 624 by 2030 to 783 by 2070.

Brazos G RWPG Request

The Brazos G RWPG requests a decrease in the WUG's population projections as shown in Table 83, based on the WUG's estimated population of 1,000 for the facility with a constant, 0% growth rate consistent with the WUG's recommendation and the observed rate of growth reflected in the WUS population data provided by TWDB.

Table 83 Summary of Requested Revisions to Population Projections for Texas State Technical College in McLennan County (2030 – 2080)

TSTC		2030	2040	2050	2060	2070	2080
MCLENNAN	Draft 2026	3,317	3,317	3,317	3,317	3,317	3,317
	Requested Population Projections	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**

This request is consistent with the second criterion for adjustments, and the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criteria Item 2 and Data Item 8). The second criterion for adjustments states, "Updates or corrections to a WUG's group quarter population or the location of institutional facilities." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of West

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received via email on August 4, 2023, from Mr. C.J. Gillaspie, Director of Public Works for the City of West (see Digital Attachment/McLennan/West_1.pdf).
2. The City provided a Draft Technical Memorandum (dated March 4, 2020) documenting a study performed by the City's engineering consultant for a Water System Capacity Evaluation. The capacity analysis included various projections of the City's population growth through the next 40 years, identifying water system improvements that are required to accommodate future growth. Also documented within are recent and upcoming construction (e.g., new High School and Middle School, 60-80 lot single-family development).

Brazos G RWPG Analysis

The Brazos G RWPG first reviewed the City's supporting documentation, wherein it is noted that the City's utility service area appears larger than both the Census Place boundary and the WUG boundary in the TWDB's Water Service Boundary Viewer (last updated 12/1/2020).

The City's study utilized two projected rates of growth, 0.32% and 2.0%. The Draft 2026 growth rates are negative, projecting decreases at an annual rate of -1.06% by 2040 to -3.14% by 2080.

The Brazos G RWPG next compiled data from the WUG's WUSs submitted to TWDB over the 2016 – 2020 period, specifically the reported numbers of residential connections (single- and multi-family) and reported population served. Over the most recent period, the City has served approximately 3.21 people per connection. The reported number of residential connections in 2020 is 987, which when multiplied by 3.21 results in an estimated population of 3,165.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 84, incorporating a revised population of 3,165 based on an estimated 3.21 people per connection for 987 connections in 2020, increasing at a growth rate of 2.0% by 2030, then 0.32% for the 2040 – 2080 period.

Table 84 Summary of Requested Revisions to Population Projections for the City of West in McLennan County (2030 – 2080)

City of West		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	1,975	1,775	1,607	1,355	1,083	787
	Requested Population Projections	**3,858**	**3,983**	**4,112**	**4,245**	**4,383**	**4,525**

The Brazos G RWPG's request employs the reported 2020 number of residential water connections submitted by the WUG in its WUS, an estimated number of people per connection (based on recent trends), and incorporates for near- and long-term projections the ranges of annual growth rates utilized by the City in its local planning.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Windsor Water

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 9, 2023, with Mr. Don Brandon, Water System Operator for Windsor Water.
2. The WUG provided data on current water connections and recent growth trends (see Digital Attachment/McLennan/WindsorWater_1.pdf).

Brazos G RWPG Analysis

The WUG's current number of connections, as of June 9, 2023, is approximately 250. They have added five additional meters during calendar year 2022. This is a residential area adjacent to Waco that will not decrease in population. To estimate population based on the number of connections, the TCEQ uses 3 people per connection, although utilities may vary from 1.5 to as high as 4 people per connection. Using a conservative estimate of 2.5 people per connection for this WUG equates to a current population of 625 as of June 9, 2023, a number that the Draft 2026 projections do not reach during the planning period.

Brazos G RWPG obtained reported population data from the TWDB's dashboard, which provides information obtained from each public water system's annual survey. Using the population data from 2012 to 2021, an average annual growth rate of 0.5% was calculated and applied throughout the planning period.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 85, incorporating a revised population based on an estimated 2.5 people per connection, starting with 250 connections in 2023 and increasing according to the annual growth rates used in the 2021 Water Plan.

Table 85 Summary of Requested Revisions to Population Projections for Windsor Water in McLennan County (2030 – 2080)

Windsor Water		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	481	412	354	298	251	212
	Requested Population Projections	**647**	**680**	**715**	**751**	**789**	**830**

The Brazos G RWPG's request employs the reported 2023 number of retail water connections provided by the WUG and a conservative estimate of people per connection (less than that used by the TCEQ). The request also reflects the annual growth rate calculated from ten years of reported population data.

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Woodway

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. Revision request received by phone on June 8, 2023, with Mr. John Norman, Assistant Director of Community Services and Development for the City of Woodway (see Digital Attachment/ McLennan/ Woodway_1.pdf). Mr. Norman stated that the City is landlocked, and while there are some current infill projects, he does not believe the population served will grow beyond 2030.

Brazos G RWPG Analysis

The WUG believes the remainder of the infill projects will be completed by 2030 and growth will stop by that time.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 86, incorporating the Draft 2026 population projection for 2030 and maintaining a constant population throughout the planning period.

Table 86 Summary of Requested Revisions to Population Projections for the City of Woodway portion in McLennan County (2030 – 2080)

City of Woodway		2030	2040	2050	2060	2070	2080
MCLENNAN	2026 Draft	10,532	11,513	12,355	13,261	14,278	15,419
	Requested Population Projections	**10,240**	**10,240**	**10,240**	**10,240**	**10,240**	**10,240**

The Brazos G RWPG's request employs the Draft 2026 population projection for 2030 and is based on data provided by the City of Woodway. This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Milam County Summary of Requested Revisions

In addition to the requested use of the 0.5-migration scenario population projections and the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 population projections is requested for Milam County based on WUG-specific requests, as shown in Table 87.

Table 87 – Summary of Requested Revisions to Population Projections for Milam County (2030 – 2080)

Milam	2030	2040	2050	2060	2070	2080
2026 Draft	24,434	23,734	22,450	21,037	19,448	17,662
0.5-migration Adjustment	32	213	485	875	1,353	1,928
Demographic Undercount Adjustment	258	255	243	237	229	219
WUG-Specific Requests	7,345	47,773	78,425	124,133	124,914	125,781
Requested Population Projections	**32,069**	**71,975**	**101,603**	**146,282**	**145,944**	**145,590**
Net County Increase	7,635	48,241	79,153	125,245	126,496	127,928

The Brazos G RWPG received three requests for revisions to the draft population projections for WUGs within Milam County from the City of Rockdale, the City of Thorndale, and for County-Other, Milam. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections as detailed below.

City of Rockdale

Summary of Comments Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 8, 2023, from Mr. Jerald Brunson, Public Works Director for the City of Rockdale (see Digital Attachment /Milam/Rockdale_1.pdf) and attached survey response pertaining to population/demands (Digital Attachment /Milam/Rockdale_2.pdf).
2. The survey response noted the 2020 municipal population reported by the U.S. Census Bureau should be 5,529, which is greater than any of the Draft projections for the City.
3. The survey noted that growth is anticipated around and in Rockdale, with a new 660 home subdivision currently breaking ground and numerous smaller projects in development, including a potential new industrial park. No projections on the type of industry or water demand associated with the park have been identified.
4. The survey indicated the previously adopted 2021 municipal population projections as, "closest to actual and maybe a little low."
5. Subsequent emails on July 31, 2023, and August 3, 2023, were submitted by Ms. Barbara Holly, AICP, City Manager for the City of Rockdale (Digital Attachment /Milam/Rockdale_3 and Rockdale_4.pdf).

Summary of Supporting Materials Received:

1. The City provided a preliminary plat approved on 12/12/2022. The final plat for Phase 1A was approved in July 2023. Groundbreaking was in May 2023 and vertical construction is projected by the City to begin in January 2024.

Brazos G RWPG Analysis

The 2020 Census amount derived by TWDB for use in developing the Draft municipal population projections for the City of Rockdale is 5,180, which appears lower than the City's reported Census amount of 5,529. The U.S. Census Bureau website reports a 2020 Census Place population of 5,323, which is lower than the City's reported 2020 amount, and greater than the 2020 amount derived by TWDB.

The Brazos G RWPG thus evaluated the City of Rockdale's PWS boundary that was utilized for the development of the 2020 Census amount and subsequent Draft population projections. The PWS boundary appears larger than the census place boundary. The service areas reflected in the PWS boundary (as reported by TWDB here: https://www3.twdb.texas.gov/apps/waterserviceboundaries) are updated by the PWSs as part of the annual Water Use Survey program. Use of the PWS service area boundary is consistent with utility-based planning and is recommended.

The Brazos G RWPG further evaluated the City's 2010 – 2020 WUS estimates of the full-time residential population served directly by the City's system, as shown in Table 88. These amounts are reported annually by the City via Water Use Survey and are all greater than the TWDB's estimated 2020 census population for the City.

Table 88 Historical Estimated Full-Time Residential Population Served for the City of Rockdale Water Use Survey Reporting (2010 – 2021)

2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
5,595	5,595	5,595	5,500	5,851	5,595	5,851	5,851	6,543	6,441	5,632	5,448

According to the City's Drought Contingency Plan and Emergency Water Demand Management Plan (located here: https://www.rockdalecityhall.com/DocumentCenter/View/3909/Rockdale-Water-Conservation-Plan-2019-PDF), these estimates are derived based on the City's number of connections multiplied by a factor of 3.0. The annual growth rate over the 10-year period from 2010 – 2020 from the City's reporting is 0.07%, which is greater than the -0.28% declining annual growth rate employed for the Draft population projections.

Incorporation of the new 660 home development using the same factor of 3 equates to an increase of 1,980. Assuming the City's reported 2021 population of 5,448, this increase would result in a population of 7,428.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 89, based on the City's 2021 population of 5,448 from its WUS with the addition of 1,980 by 2030 based on the City's reported recent development. The 2040 – 2080 requested population projections are requested to be based on the 0.07% annual growth rate reflected in the City's 2010 – 2020 estimates of the full-time residential population served directly by the City's system over that 10-year period.

Table 89 Summary of Requested Revisions to Population Projections for the City of Rockdale in Milam County (2030 – 2080)

City of Rockdale		2030	2040	2050	2060	2070	2080
MILAM	Draft 2026	5,113	4,972	4,835	4,701	4,571	4,445
	Requested Population Projections	**7,428**	**7,480**	**7,533**	**7,586**	**7,639**	**7,693**

This request is consistent with the sixth criterion for adjustments, and the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criteria Item 6, and Data Item 8). The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Thorndale

Summary of Comments Received:

1. In response to the Brazos G RWPG survey, two emails were received on June 26, 2023, from Mr. Ray Miller, City Manager for the City of Thorndale (see Digital Attachments /Milam/Thorndale/Thorndale_1.pdf and /Milam/Thorndale_2.pdf).
2. The email provided information on current and planned water connections for the City, noting that at present there are a total of 658 water connections. In 2023 and 2025, 90 connections from a new development will put the City over 750 water connections.
3. The email noted that a 2017 Water Supply Study conducted by the City had a forecasted growth rate of 0.5% and projected the City to have 750 water connections by 2040. The City reports it will be at 750 water connections probably by 2025 or maybe a few years later.
4. The email identified other possible residential development in the future, possibly adding an additional 400 water connections by 2030.

5. The City suggested a minimum of 10% per year with planned and anticipated growth, but it could go higher.
6. The City noted that with the TCEQ requirement of 0.6 gpm per connection, at its present 658 connections they would presently need 394.80 gpm (~637 ac-ft/yr). With the 90 new connections, that need increases to 450.6 gpm (~727 ac-ft/yr). The City's 7-10 year estimate would increase to 720 gpm (~1,161 ac-ft/yr).

Summary of Supporting Materials Received:

1. Supporting documentation (see Digital Attachments /Milam/Thorndale/assorted .pdfs) as listed below.
2. Two pages from the final plat for Country Meadows Phase II. This project is still under construction but the applicant is preparing to begin the submittal process for building permits. Construction of individual homes should begin very soon. This will yield between 88-91 residential lots. The number of lots may be slightly impacted by the need to construct a detention pond.
3. Site plan / layout for the proposed new Classic Bank. Building plans are currently being reviewed.
4. Site plan / layout for the proposed Thorndale Plaza II. The building plans have been approved; however, the applicant is seeking a tax abatement prior to starting construction.
5. Proposed layout / development plan for 100 acres. The applicant / landowner has submitted a request for annexation. Nothing further has taken place at present.

Brazos G RWPG Analysis

The Brazos G RWPG evaluated the City's 2010 – 2023 WUS estimates of the full-time residential population served directly by the City's system, as shown in Table 90. These amounts are reported annually by the City via Water Use Survey and are consistently larger than the TWDB's estimated 2020 census population for the City.

Table 90 Historical Estimated Full-Time Residential Population Served for the City of Rockdale Water Use Survey Reporting (2010 – 2021)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Population	1,300	1,350	1,340	1,336	1,336	1,370	1,339	1,336	1,336	1,380	1,400	1,400	1400	1,408
Connections	569	578	600	615	630	612	626	630	631	634	650	650	656	658

Within Table 90, the 2022 population was obtained from TCEQ Drinking Water Watch reporting. The 2023 population was estimated based on the most recent 5-year average of the City's reported population per connection of 2.14, which was then applied to the 658 connections presently reported by the City.

The annual growth rate over the 5-year period from 2018– 2023 from the City's reporting is 0.84%. This annual growth rate was used, along with the City's reported near-term 90 new connections from the Country Meadows Phase II (at 2.14 population per connection) to estimate a 2025 population of 1,624. The estimated 2025 population was then compared to the City's reported 2020 population of 1,400 to determine a near-term, 5-year annual growth rate that now incorporates the recent development, which was determined to be an annual growth rate of 3.01%.

This estimated near-term 3.01% annual growth rate from that 5-yr period (2020-2025 est.) was then applied to the most recent reported 2022 population served by the City's system of 1,400 from the TCEQ Drinking Water Watch Water System Summary Sheet, to develop a near-term 2030 projection of 1,775.

A long-term annual growth rate was calculated from the 2010 – 2022 WUS reported populations served by the City to be 0.62%. Both the near-term 3.01% and long-term 0.62% growth rates indicate positive growth, in contrast to the long-term decreasing annual growth rates of approximately -0.7% reflected in the Draft 2026 population projections for the WUG.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 91, based on the City's 2021 population of 5,448 from its WUS with the addition of 1,980 by 2030 based on the City's reported recent development. The 2040 – 2080 requested population projections are requested to be based on the 0.07% annual growth rate reflected in the City's 2010 – 2020 estimates of the full-time residential population served directly by the City's system over that 10-year period.

Table 91 Summary of Requested Revisions to Population Projections for the City of Thorndale in Milam County (2030 – 2080)

City of Thorndale		2030	2040	2050	2060	2070	2080
MILAM	Draft 2026	1,150	1,116	1,055	987	912	827
	Requested Population Projections	**1,775**	**1,888**	**2,008**	**2,136**	**2,272**	**2,417**

Use of these requested population projections for the City of Thorndale, when combined with the Brazos G RWPG's requested GPCD (detailed later in this document), will result in near-term and long-term demand projections at or exceeding the City's requested water demand projections.

This request is consistent with the sixth criterion for adjustments, and the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criteria Item 6, and Data Item 8). The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

County-Other, Milam

Summary of Comments Received:

1. An email was received on July 28, 2023, from the Honorable Mr. Bill Whitmire, Milam County Judge (see Digital Attachments /Milam/County-Other/County-Other_Milam_1.pdf). The email indicates that Milam County will not be declining in population over the next 20 – 30 years.
2. Included within the email is relevant documentation to the fact that a very recently announced project – Sandow Lakes Ranch (SLR) – located on the old ALCOA property in Milam County, would result in the population of Milam County doubling in size in the next 10 – 20 years (see Digital Attachments /Milam/County-Other/County-Other_Milam_2.docx). It is noted that coupled with the new subdivisions going in around the county, it is foreseeable that the population of Milam County could be 50,000 – 70,000 people by 2030.
3. Included is a request noting, "…it would be prudent for this project's impact on Milam County to be included."

4. The forecasted future water uses by the other WUGs in Milam County that may have provided input [to the Brazos G RWPG] would not have reflected the SLR development, since their respective service areas do not include the 24,000 acres. In the event the SLR development water can be included as part of the Milam County "Other" uses category for this plan, it would be split between multiple uses such as municipal, industrial, and agricultural. SLR has created a new MUD that would be able to report and forecast future water needs in subsequent plans.
5. Subsequent emails were received on August 7, 2023, and August 8, 2023, from Mr. Alan Gardenhire, VP of Operations for Sandow Lakes Ranch (SLR) (see Digital Attachments /Milam/County-Other/County-Other_Milam_2.pdf and County-Other_Milam_3.pdf).

Summary of Supporting Materials Received:

1. The SLR property development is a master plan that covers a total of 33,000 acres, of which approximately 24,000 are in Milam County (the remaining 9,000 acres within Lee County).
2. The SLR development will have a major positive impact on the growth and economic revitalization of Milam County, including a significant impact on future water usage.
3. Three articles related to the SLR project were provided from the Rockdale Reporter, Austin Business Journal, and the Dallas Morning News.
4. Excerpt from the August 7, 2023, email from Mr. Gardenhire:

"SLR has an existing production permit with POSGCD for 25,000 ac ft as well as a transport permit for the same amount. This water is under contract for use in eastern Williamson County for industrial purposes. I assume that the city of Taylor or another WUG reported this to you in their projections. We have another HU 15,000-acft permitted and an additional permit for 9,000-acft already filed and determined administratively complete by POSGCD. Hearings for this permit should be held this fall. This remaining 24,000 ac-ft of groundwater will be utilized for residential and commercial development in Milam County. The projected population increases below are just for SLR property alone and will impact Milam county growth projections outside the SLR property as Judge Whitmire suggested in his letter. As you can see, these numbers are more than 10 or 20 times the projections after the year 2040 that you show below. There is significant Master land planning detail that ties to the SLR projections, but this information is still confidential. However, the bottom line for the Region G planning committee is to know that all the groundwater rights of SLR's approximately 33,000 acres within Milam and Lee County not currently contracted for will be utilized within in the property development."

Year	SLR Population Projection Increases
2026	800
2030	5,000
2040	45,000
2050	75,000
2060	120,000
2070	120,000
2080	120,000

Brazos G RWPG Analysis

The Draft 2026 population projections for the County-Other, Milam, WUG, estimate a declining population at rates of -0.32% by 2040 to -3.08% by 2080. The 2020 population amount from historical data provided by the TWDB for the County-Other, Milam, WUG is 2,187.

The increases to the projected populations in Milam County identified by SLR for each decade are identified in Table 92.

Table 92 Increases to SLR Population Projection for Milam County (2030 – 2080)

	2030	2040	2050	2060	2070	2080
SLR Project Milam County	5,000	45,000	75,000	120,000	120,000	120,000

These projected increases for the municipal population of Milam County have been applied to the 2020 baseline population of 2,187.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the County-Other, Milam, WUG population projections as shown in Table 93, reflecting the identified projected increases due to the SLR project.

Table 93 Summary of Requested Revisions to Population Projections for the County-Other WUG in Milam County (2030 – 2080)

County-Other		2030	2040	2050	2060	2070	2080
County-Other, MILAM	Draft 2026	2,782	2,694	2,413	2,088	1,701	1,244
	Requested Population Projections	**7,187**	**47,187**	**77,187**	**122,187**	**122,187**	**122,187**

This request is consistent with the sixth criterion for adjustments, and the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criteria Item 6, and Data Item 8). The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Palo Pinto County Summary of Requested Revisions

In addition to the requested adjustments addressing the demographic undercount, an increase from the Draft 2026 projected population amounts is requested for Palo Pinto County based on a WUG-specific request. These changes for Palo Pinto County are shown in Table 98.

Table 94 Summary of Requested Revisions to Population Projections for Palo Pinto County (2030 – 2080)

Palo Pinto County	2030	2040	2050	2060	2070	2080
2026 Draft	29,113	29,146	28,856	28,708	28,542	28,355
0.5-migration Adjustment	165	165	164	162	161	161
Demographic Undercount Adjustment	2,102	3,022	4,100	5,116	5,199	5,294
WUG-Specific Requests	31,380	32,333	33,120	33,986	33,902	33,810
Requested Population Projections	**2,267**	**3,187**	**4,264**	**5,278**	**5,360**	**5,455**
Net County Increase	29,113	29,146	28,856	28,708	28,542	28,355

The Brazos G RWPG requests revisions to the draft population projections for the City of Mineral Wells.

City of Mineral Wells

Summary of Comments Received:

1. None.

Summary of Supporting Materials Received:

1. The Upper Trinity Groundwater Conservation District (UTGCD) has produced a Draft Regional Water Supply and Facilities Planning Study (the UTGCD Study), including projections for the City of Mineral Wells (see Digital Attachments /Palo Pinto/MineralWells_1.pdf).
2. Inter-regional coordination indicates the UTGCD Study is also being utilized by the Region C Water Planning Group.

Brazos G RWPG Analysis

The 2020 WUS for the City of Mineral Wells reports a total population of 15,213. The UTGCD Study reports the portion of the City's 2020 population in Parker County to be 1,463. The remainder (13,750) thus represents the 2020 population of Mineral Wells in Palo Pinto County.

Table 95 Estimated Distribution of Mineral Wells 2020 Population Amounts between Parker and Palo Pinto Counties based on 2020 Water Use Survey and UTGCD Draft Regional Water Supply and Facilities Planning Study

Description	2020
2020 WUS Total Reported Population	15,213
UTGCD Study Reported Population in Parker County	1,463
Palo Pinto County Population	13,750

The UTGCD Study further identifies annual growth rates for the City of Mineral Wells over the 2030 – 2080 period (see Table 96). Application of these annual growth rates to the estimated 2020 population splits between Parker and Palo Pinto Counties results in the projected population growth shown below.

Table 96 Projected Populations for the City of Mineral Wells based on Estimated 2020 Population Splits between Parker and Palo Pinto Counties and Annual Growth Rates from UTGCD Draft Regional Water Supply and Facilities Planning Study (2030 – 2080)

Description	2020	2030	2040	2050	2060	2070	2080
UTGCD Study Annual Growth Rate		2.10%	0.54%	0.51%	0.49%	0.00%	0.00%
2020 WUS Total Reported Population	15,213	18,727	19,763	20,794	21,836	21,836	21,836
UTGCD Parker County Reported Population	1,463	1,801	1,900	1,999	2,099	2,099	2,099
Palo Pinto County Pop	13,750	16,926	17,863	18,795	19,737	19,737	19,737

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 97, consistent with the results of the UTGCD Study and with requests of the Region C Water Planning Group.

Table 97 Summary of Requested Revisions to Population Projections for the City of Mineral Wells (2030 – 2080)

Mineral Wells		2030	2040	2050	2060	2070	2080
PALO PINTO (Region G)	Draft 2026	14,824	14,841	14,695	14,621	14,538	14,443
	Requested Population Projections	**16,926**	**17,863**	**18,795**	**19,737**	**19,737**	**19,737**
PARKER (Region C)	Draft 2026	169	180	192	204	217	231
	Requested Population Projections	**1,801**	**1,900**	**1,999**	**2,099**	**2,099**	**2,099**
TOTAL	Draft 2026	14,993	15,021	14,887	14,825	14,755	14,674
	Requested Population Projections	**18,727**	**19,763**	**20,794**	**21,836**	**21,836**	**21,836**

The Brazos G RWPG's request reflects information from the WUG's submitted WUS data, results of the UTGCD Study, and is consistent with the request of the Region C Regional Water Planning Group. The request is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size."The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Robertson County Summary of Requested Revisions

In addition to the requested use of the 0.5-migration scenario population projections, an increase from the Draft 2026 projected population amounts is requested for Robertson County based on WUG-specific requests. These cumulative requested changes for Robertson County are shown in Table 98.

Table 98 Summary of Requested Revisions to Population Projections for Robertson County (2030 – 2080)

Robertson	2030	2040	2050	2060	2070	2080
2026 Draft	16,474	15,904	15,138	14,258	13,269	12,157
0.5-migration Adjustment	4	97	260	423	637	908
Demographic Undercount Adjustment	193	191	184	174	169	160
WUG-Specific Requests	782	724	722	739	810	949
Requested Population Projections	**17,453**	**16,916**	**16,304**	**15,594**	**14,885**	**14,174**
Net County Increase	979	1,012	1,166	1,336	1,616	2,017

The Brazos G RWPG received two requests for revisions to the draft population projections for WUGs within Robertson County, from the City of Calvert and Robertson County WSC. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections for City of Calvert, Robertson County WSC, and the County-Other, Robertson, WUG.

City of Calvert

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on June 20, 2023, from Ms. Layla Wright, Mayor of the City of Calvert (see Digital Attachment/Robertson/Calvert_1.pdf).
2. The WUG indicates that there is a new subdivision proposed for up to 55 residential connections.

Brazos G RWPG Analysis

To reflect the City's projected near-term growth, the 55 proposed connections at an assumed 2 persons per connection results in a projected increase of 110, representing a near-term annual growth rate of 1.12% since 2020. A review of the City's Water Use Surveys indicates the 10-year (2012-2021) annual growth rate is 0%, which is greater than the Draft 2026 near term growth rate of -0.17%. The estimated population served from the City's historic Water Use Surveys also indicate that the 5-year (2017-2021) annual growth rate is 0.17%, further suggesting relatively stable near-term growth. The annual growth rates based on the 0.5-Migration Scenario for the City of Calvert are identified in Table 99, for estimating the 2040-2080 populations.

Table 99 Annual Growth Rate for City of Calvert based on 0.5-Migration Scenario (2040 – 2080)

Decade	Annual Growth Rate
2040	-0.25%
2050	-0.33%
2060	-0.42%
2070	-0.47%
2080	-0.49%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 100, incorporating the City's proposed near-term growth of 110 by 2030, then utilizing the annual growth rate from the 0.5-migration scenario estimates of the City's population growth for the 2040 – 2080 period.

Table 100 Summary of Requested Revisions to Population Projections for the City of Calvert (2030 – 2080)

City of Calvert	2030	2040	2050	2060	2070	2080
2026 Draft	916	885	842	793	737	676
Requested Population Projections	**1,042**	**1,016**	**983**	**942**	**899**	**856**

The Brazos G RWPG's request reflects the WUG's projections of future growth by incorporating near-term annual growth rate from the proposed subdivision to estimate 2030 total population projections for the City of Calvert and incorporates the TWDB's 0.5-migration scenario annual growth rates derived from the Draft projections for the WUG for the long-term 2040 – 2080 population projections.

This request is based on data provided by the City of Calvert and information reported by the TWDB. The request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Robertson County WSC

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on June 13, 2023, from Mr. John Elliot, General Manager for the Robertson County WSC (see Digital Attachment /Robertson/RobertsonCountyWSC_1.pdf).
2. The WUG has indicated that the 2020 census does not reflect the population estimated by the City and reported in its annual water use survey.
3. The WUG provided data regarding its use in 2014, correcting the net use (produced less sales) for that year, and reducing the identified maximum per capita usage for this WUG to 143 gpcd (see Digital Attachment /Robertson/RobertsonCountyWSC_2.pdf).

Brazos G RWPG Analysis

Robertson County WSC's estimated full time residential population served directly by the system of 3,293 in 2020, which is significantly greater than the estimated 2020 census population of 2,662. The WUG's reported 2021 population of 3,421 is greater than all the draft projections over the 2030 – 2080 planning period. The 5-year historical annual growth rate derived from the WUG's reported population estimates over the 2017 – 2021 period is 2.1%, which is significantly higher than the Draft 2026 near-term growth rate of -0.17% employed for the 2030 population projection for Robertson County WSC.

The annual growth rates based on the 0.5-Migration Scenario for Robertson County WSC are identified in Table 101.

Table 101 0.5-Migration Scenario Annual Growth Rate

Decade	Annual Growth Rate
2030	-0.17%
2040	-0.12%
2050	-0.14%
2060	-0.12%
2070	-0.04%
2080	0.07%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 102, incorporating the revised 2021 population estimate of 3,421 from Robertson County WSC for 2021, then utilize the annual growth rate from the 0.5-migration scenario estimates of population for the 2030 – 2080 period.

Table 102 Summary of Requested Revisions to Population Projections for Robertson County WSC in Robertson County (2030 – 2080)

Robertson County WSC	2030	2040	2050	2060	2070	2080
2026 Draft	2,617	2,540	2,465	2,392	2,321	2,252
Requested Population Projections	**3,370**	**3,300**	**3,255**	**3,216**	**3,203**	**3,225**

This request is consistent with the second and third criteria for adjustment identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 2 and 3). The second criterion is, "The 2010 or 2020 permanent population-served estimate by a municipal WUG is significantly different than the 2010 or 2020 baseline population estimate used in the draft projections." The third criterion is, "The population growth rate for a municipal WUG over the most recent years (2015-2020) is substantially different than the growth rate between 2010 and 2020 in the draft projections."

This request is also consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests correction of the WUG's 2014 net water use to 157,311,300 gal. (239,683,000 gal. produced less 82,371,700 gal. in sales). This correction, when coupled with the reported full time 2014 residential population of 3,009, results in a per capita usage of 143 gpcd, which is the maximum 10-year per capita usage and requested to be used as the baseline gpcd for this WUG.

County-Other Robertson

Summary of Comments Received:

1. No requests received.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Analysis

The WUG-specific population revision requests in Robertson County include an assumption that some of these WUGs would expand their service area, reducing the County-Other geographic area. The annual growth rate of the WUG-specific requests is 0.5%. An annual growth rate of -0.5% has been applied to the Draft 2026 population projections over the 2030-2080 period to reflect expansion of the requesting WUG's service areas.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the Draft 2026 population projections for the County-Other, Robertson, WUG to the amounts shown in Table 103.

Table 103 Summary of Requested Revisions to Population Projections for County-Other, Robertson (2030-2080)

County-Other Robertson	2030	2040	2050	2060	2070	2080
2026 Draft	2,023	1,936	1,793	1,616	1,408	1,158
Requested Population Projections	**1,926**	**1,769**	**1,584**	**1,382**	**1,174**	**954**

Somervell County Summary of Requested Revisions

Revisions from the Draft 2026 projected population amounts are requested for Somervell County based on WUG-specific requests, as shown in Table 104. The requested revisions result in no net change to the County's projected populations.

Table 104 Summary of Requested Revisions to Population Projections for Somervell County (2030 – 2080)

Somervell	2030	2040	2050	2060	2070	2080
2026 Draft	9,787	10,114	10,249	10,179	10,100	10,011
Demographic Undercount Adjustment	26	26	27	27	26	26
WUG-Specific Requests	0	0	0	0	0	0
Requested Population Projections	**9,813**	**10,140**	**10,276**	**10,206**	**10,126**	**10,037**
Net County Increase	26	26	27	27	26	26

The Brazos G RWPG received one request for revisions to the draft population projections for WUGs within Washington County from Somervell County Water District. Based on the information provided by this WUG, the Brazos G RWPG requests revisions to the draft population projections for Somervell County Water District and the County-Other, Somervell, WUG.

Somervell County Water District

Summary of Comments Received:

1. Request for revision to population and demand projections (demand projections are addressed later in this document). The WUG has distribution mainlines that cover approximately 80% of the county's populace.

Summary of Supporting Materials Received:

1. Revision request received by email on June 6, 2023, and discussed by phone on July 7, 2023, with Mr. Kevin Taylor, General Manager for the Somervell County Water District (see Digital Attachment / Somervell/Somervell CountyWaterDistrict.pdf).

Brazos G RWPG Analysis

The service area map and technical memorandum provided by the WUG show existing distribution system mainlines to approximately 80% of the County's residences not including the City of Glen Rose. The WUG is in the process of continuing to connect these residents as they begin to switch from privately owned wells to the WUG's system.

Brazos G RWPG Request

Revise the WUG's population projections as shown in Table 105, incorporating the revised service area of the Somervell County Water District provided data.

Table 105 Summary of Requested Revisions to Population Projections for Somervell County Water District in Somervell County (2030 – 2080)

Somervell County Water District	2030	2040	2050	2060	2070	2080
2026 Draft	3,001	3,102	3,143	3,120	3,093	3,064
Requested Population Projections	**5,630**	**5,820**	**5,897**	**5,853**	**5,804**	**5,748**

The Brazos G RWPG's request employs the adjusted service area future service area growth provided by the WUG from the Somervell County Water District Water Distribution System Study and Somervell County Water Service Map.

This request is based on data provided by the WUG and is consistent with the fifth and seventh data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Items 5 and 7). The fifth data requirement states, "Documentation or maps that verify and display changes in the utility service area." This request is also consistent with the seventh data requirement which states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size."

County-Other, Somervell

Summary of Comments Received:

1. None.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Request

Reduction to the population projections for the County-Other, Somervell, WUG, as the population is re-allocated to the Somervell County Water District as shown in Table 106.

Table 106 Summary of Requested Revisions to Population Projections for County-Other, Somervell (2030 – 2080)

County-Other, Somervell	2030	2040	2050	2060	2070	2080
2026 Draft	4,036	4,173	4,228	4,196	4,161	4,120
Requested Population Projections	**1,407**	**1,455**	**1,474**	**1,463**	**1,450**	**1,436**

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

Washington County Summary of Requested Revisions

An increase from the Draft projected population amounts is requested for Washington County, as shown in Table 107.

Table 107 Summary of Requested Revisions to Population Projections for Washington County (2030 – 2080)

Washington	2030	2040	2050	2060	2070	2080
2026 Draft	36,263	36,714	36,667	36,573	36,467	36,348
Demographic Undercount Adjustment	308	314	311	314	318	322
WUG-Specific Requests	833	553	273	64	-105	-229
Requested Population Projections	**37,404**	**37,581**	**37,251**	**36,951**	**36,680**	**36,441**
Net County Increase	1,141	867	584	378	213	93

The Brazos G RWPG received one request for revisions to the draft population projections for a WUG within Washington County from Corix Utilities Texas, Inc. Based on the information provided by this WUG, the Brazos G RWPG requests revisions to the draft population projections for Corix Utilities Texas, Inc, and the County-Other, Washington, WUG.

Corix Utilities Texas, Inc.

Summary of Comments Received:

1. Request for revision to population and demand projections.

Summary of Supporting Materials Received:

1. Revision request received by email on June 9, 2023, from Scott Ahlstrom, Director of Engineering and Project Delivery for Corix Utilities Texas, Inc. (see Digital Attachment /Washington/CorixUtilities_1.pdf).
2. The WUG provided the 2030 service population projections for its utility service areas in Washington and Lampasas Counties (Region G), Blanco, Burnet, Colorado, Llano, Matagorda, Mills, and San Saba Counties (Region K), and Mitchell County (Region F) (see Digital Attachment /Washington/CorixUtilities_2.pdf).
3. Additional documentation in support of the requested population revision could not be obtained due to the confidential nature of the WUG's service contracts.

Brazos G RWPG Analysis

The WUG's reported 2030 total WUG population projection of 27,057 split as shown in Table 108, is approximately 143% greater than the Draft 2030 total WUG population of 11,136 from the data provided to the Brazos G RWPG by TWDB. The WUG's estimated total population of 27,057 for 2030 represents a near-term annual growth rate of 9.7% since 2020.

The WUG's projected annual growth rates (shown in Table 108) significantly differ from the Draft 2026 projected annual growth rates from 2020 to 2030.

Table 108 Corix Utilities Texas, Inc., Reported 2030 Population Projections

County	2030	Annual Growth Rate	Draft 2026 Growth Rate
WASHINGTON (Region G)	4,918	2.8%	0.08%
LAMPASAS (Region G)	7,252	11.2%	0.56%
MITCHELL (Region F)	2,933	11.0%	-0.20%
BLANCO (Region K)	322	78.2%	0.00%
BURNET (Region K)	5856	15%	1.48%
COLORADO (Region K)	375	1.8%	-0.93%
LLANO (Region K)	4,001	10.3%	0.51%
MATAGORDA (Region K)	525	36.7%	-0.44%
MILLS (Region K)	735	25.5%	-0.27%
SAN SABA (Region K)	140	5.1%	-0.86%
TOTAL	27,057	9.7%	0.39%

Corix Utilities Texas, Inc., serves Washington and Lampasas Counties (Region G), Blanco, Burnet, Colorado, Llano, Matagorda, Mills, and San Saba Counties (Region K), and Mitchell County (Region F). The Draft 2026 population projections provide an estimate of the projected distribution of the population served by Corix Utilities Texas, Inc., between these ten counties, as shown in Table 109.

Table 109 Distribution as Percentage of Total Projected Population from Draft 2026 Projections of Corix Utilities Texas, Inc., in Washington and Lampasas Counties (Region G), Mitchell County (Region F), and Blanco, Burnet, Colorado, Llano, Matagorda, Mills, and San Saba Counties (Region K) (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
WASHINGTON (Region G)	33.69%	33.39%	33.35%	33.55%	33.68%	33.76%
LAMPASAS (Region G)	23.82%	23.72%	23.07%	22.24%	21.37%	20.46%
MITCHELL (Region F)	9.07%	9.04%	9.40%	9.21%	9.00%	8.78%
BLANCO (Region K)	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
BURNET (Region K)	15.06%	16.19%	17.12%	18.27%	19.51%	20.84%
COLORADO (Region K)	2.56%	2.23%	1.97%	1.75%	1.55%	1.37%
LLANO (Region K)	14.22%	13.99%	13.80%	13.82%	13.86%	13.91%
MATAGORDA (Region K)	0.20%	0.19%	0.18%	0.16%	0.15%	0.13%
MILLS (Region K)	0.66%	0.61%	0.57%	0.52%	0.47%	0.40%
SAN SABA (Region K)	0.70%	0.62%	0.53%	0.47%	0.40%	0.33%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 110, incorporating the revised 2030 total population estimate of 27,057 from Corix Utilities Texas, Inc., reflecting a projected 9.7% annual growth rate for the estimation of 2030 population, then utilizing the annual growth rate from the Draft 2026 population projections for the 2040 – 2080 period.

The resultant revised population projections for Corix Utilities Texas, Inc., are requested to then be apportioned using the WUG's indicated distribution of service population in the split counties. The requested split population projections for Corix Utilities Texas, Inc., in Washington and Lampasas Counties (Region G), Mitchell County (Region F), and Blanco, Burnet, Colorado, Llano, Matagorda, Mills, and San Saba Counties (Region K), are provided in Table 110.

Table 110 Summary of Requested Revisions to Population Projections for the Corix Utilities Texas, Inc., portion in Washington and Lampasas Counties (Region G), Mitchell County (Region F), and Blanco, Burnet, Colorado, Llano, Matagorda, Mills, and San Saba Counties (Region K) (2030 – 2080)

Corix Utilities Texas, Inc.		2030	2040	2050	2060	2070	2080
WASHINGTON (Region G)	2026 Draft	3,752	3,870	3,992	4,117	4,246	4,379
	Requested Population Projections	**4,918**	**5,073**	**5,233**	**5,397**	**5,566**	**5,740**
LAMPASAS (Region G)	2026 Draft	2,653	2,749	2,762	2,730	2,694	2,654
	Requested Population Projections	**7,252**	**7,514**	**7,550**	**7,463**	**7,365**	**7,256**
MITCHELL (Region F)	2026 Draft	1,010	1,048	1,125	1,130	1,134	1,139
	Requested Population Projections	**2,933**	**3,075**	**3,353**	**3,425**	**3,503**	**3,584**
	2026 Draft	1	1	1	1	1	1

Corix Utilities Texas, Inc.		2030	2040	2050	2060	2070	2080
BLANCO (Region K)	**Requested Population Projections**	**322**	**322**	**322**	**322**	**322**	**322**
BURNET (Region K)	2026 Draft	1,677	1,877	2,050	2,242	2,459	2,704
	Requested Population Projections	**5,856**	**6,554**	**7,158**	**7,828**	**8,586**	**9,441**
COLORADO (Region K)	2026 Draft	285	259	236	215	196	178
	Requested Population Projections	**375**	**341**	**311**	**283**	**258**	**234**
LLANO (Region K)	2026 Draft	1,584	1,622	1,652	1,696	1,747	1,805
	Requested Population Projections	**4,001**	**4,097**	**4,173**	**4,284**	**4,413**	**4,560**
MATAGORDA (Region K)	2026 Draft	22	22	21	20	19	17
	Requested Population Projections	**525**	**525**	**501**	**477**	**453**	**405**
MILLS (Region K)	2026 Draft	74	71	68	64	59	52
	Requested Population Projections	**735**	**705**	**675**	**635**	**585**	**516**
SAN SABA (Region K)	2026 Draft	78	72	64	58	51	43
	Requested Population Projections	**140**	**129**	**115**	**104**	**91**	**77**
TOTAL	2026 Draft	11,136	11,591	11,971	12,273	12,606	12,972
	Requested Population Projections	**27,057**	**28,335**	**29,391**	**30,218**	**31,142**	**32,135**

The Brazos G RWPG's request reflects the WUG's projections of future growth by incorporating the 2030 total population projections for Corix Utilities Texas, Inc., and incorporates the TWDB's annual growth rates derived from the Draft projections for the WUG for the long-term 2040 – 2080 population projections for Washington and Lampasas Counties (Region G), and Blanco, Burnet, Colorado, Llano, Matagorda, Mills, and San Saba Counties (Region K). For consistency with the Region F Regional Planning Group the long-term 2040-2080 population projections for Mitchell County (Region F) are 0.47% for 2040, 0.87% for 2050, 0.21% for 2060, 0.23% for 2070, and 0.23% for 2080, consistent with the 0.5 Migration Scenario CARG.

This request is based on data provided by Corix Utilities Texas, Inc., and information reported by the TWDB, and is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

County-Other Washington

Summary of Comments Received:

1. No requests received.

Summary of Supporting Materials Received:

1. None.

Brazos G RWPG Analysis

The WUG-specific population revision requests in Washington County include an assumption that some of these WUGs would expand their service area, reducing the County-Other geographic area. The annual growth rate of the WUG-specific request is 0.3%. An annual growth rate of -0.3% has been applied to the Draft 2026 population projections over the 2030-2080 period to reflect expansion of the requesting WUG's service area.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the Draft 2026 population projections for the County-Other, Washington, WUG to the amounts shown in Table 111.

Table 111 – Summary of Requested Revisions to Population Projections for County-Other, Washington (2030-2080)

County-Other Washington	2030	2040	2050	2060	2070	2080
2026 Draft	11,251	11,151	11,230	10,741	10,213	9,640
Requested Population Projections	**10,918**	**10,501**	**10,262**	**9,525**	**8,788**	**8,050**

Williamson County Summary of Requested Revisions

An increase from the Draft 2026 population projections is requested for the portion of Williamson County located in Region G based on WUG-specific requests, as shown in Table 112.

Table 112 Summary of Requested Revisions to Population Projections for Williamson County (Region G) (2030 – 2080)

Williamson	2030	2040	2050	2060	2070	2080
2026 Draft	710,743	929,082	1,186,115	1,467,280	1,783,380	2,138,756
Demographic Undercount Adjustment	4,191	5,611	7,285	9,114	11,421	14,312
WUG-Specific Requests	193,060	363,026	462,824	467,652	483,010	527,070
Requested Population Projections	**907,994**	**1,297,719**	**1,656,224**	**1,944,046**	**2,277,811**	**2,680,138**
Net County Increase	197,251	368,637	470,109	476,766	494,431	541,382

The Brazos G RWPG notes that in 2022, the Cities of Georgetown (#1) and Leander (#4) were ranked by the U.S. Census Bureau as being within the top five fastest growing cities in the U.S. by percent change for cities with a population of at least 50,000 people. For the City of Georgetown, this is the second year in a row that is has been ranked #1, with an estimated 14.4% growth between July 1, 2021, to July 1, 2022 (from U.S. Census Bureau at: https://www.census.gov/newsroom/press-releases/2023/subcounty-metro-micro-estimates.html).

The Brazos G RWPG received five requests for revisions to the draft population projections from WUGs primarily within Williamson County, namely the Brushy Creek MUD, the City of Georgetown, the City of Leander, the City of Round Rock, and the City of Taylor. Based on the information provided by these WUGs, the Brazos G RWPG requests revisions to the draft population projections for each of these WUGs as described in the following sections. Given the rapid growth in the area, it has been assumed that no reductions be requested for the County-Other, Williamson, WUG to offset the requests of the WUGs identified herein.

Brushy Creek MUD

Summary of Comments Received:

1. Request for revision to population and demands.

Summary of Supporting Materials Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 27, 2023, from Ms. Amy Giannini, P.E., CFM, District Engineer for the Brushy Creek MUD (see Digital Attachment /WILLIAMSON/BRUSHYCREEKMUD_1.pdf).
2. Included with the email was an attached survey response pertaining to population, per capita usage, and demands (Digital Attachment /WILLIAMSON/BRUSHYCREEKMUD _2.pdf), and a table of 2018 – 2022 historic population and water use data, including an adjusted 2020 population amount based on analyses of the BCMUD Operational Boundary performed by the City's consultant.
3. The WUG's comments expressed confidence in their current population estimate of 18,314, and concern that the WUG's recent 2018 – 2022 municipal water demands already exceed the Draft 2026 population projections for the WUG over the 2030 – 2080 period.
4. The WUG indicates expected build-out by 2030, which is consistent with information approved for the 2021 Brazos G Water Plan.
5. The WUG's data also included an updated calculation of 2018 – 2022 per capita usage, with a maximum per capita use of 185 gallons per capita per day in 2022.

Brazos G RWPG Analysis

The WUG's calculated 2020 population of 18,314 is greater than the 2020 Census amount derived by TWDB for use in developing the Draft municipal population projections for the Brushy Creek MUD of 17,253. The annual growth rate over the 2040 – 2080 period utilized by the TWDB for the Draft 2026 municipal population projections for the Brushy Creek MUD is 0.74%.

Use of the 18,314 population with the TWDB's annual growth rate of 0.74% results in an estimated 2030 population of 19,715. In combination with the increased per capita usage recommended later herein, the resultant projected water demands for the WUG would be approximately 12% greater than the WUG's maximum reported municipal demands from the 2018-2022 period.

The updated per capita usage requested by the WUG is indicative of recent trends as reported by the WUG.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 113. The 2030 projection is requested to be based on the WUG's requested 2020 service area population of 18,314, assuming the annual growth rate of 0.74% employed for development of the Draft 2026 projections for the WUG. For the 2040 – 2080 period, the projections are requested to be held constant based on the WUG's indication of expected build-out by 2030.

Table 113 Summary of Requested Revisions to Population Projections for the Brushy Creek MUD in Williamson County (Regions G and K split) (2030 – 2080)

Brushy Creek MUD		2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	Draft 2026	15,362	16,537	17,802	19,164	20,630	22,208
	Requested Population Projections	**19,423**	**19,423**	**19,423**	**19,421**	**19,421**	**19,421**
WILLIAMSON (Region K)	Draft 2026	231	249	268	289	311	335
	Requested Population Projections	**292**	**292**	**292**	**294**	**294**	**294**
TOTAL WUG	Draft 2026	15,593	16,786	18,070	19,453	20,941	22,543
	Requested Population Projections	**19,715**	**19,715**	**19,715**	**19,715**	**19,715**	**19,715**

This request is consistent with the eighth data requirement for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Data Item 8). The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests a revision to the baseline per capita usage to 185 GPCD, as it is representative of near-term trends reported by the WUG.

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the eighth and ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). Data Requirement 8-d states, "Growth data in the residential, commercial and / or public sectors that would justify an increase or decrease in per capita water use." The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

City of Georgetown

Summary of Comments Received:

1. The City's requested projections for municipal population, per capita usage, and water demand are shown in Table 114.

Table 114 Projections for Municipal Population, GPCD, and Water Demand identified by the City of Georgetown (2030 – 2080)

Year	2030	2040	2050	2060	2070	2080
Estimated population (persons)	277,915	483,705	662,683	780,435	905,728	1,051,133
Estimated GPCD	173	170	166	162	158	155
Annual Demand (MGD)	48.08	82.23	110.01	126.43	143.10	162.93
Annual Demand (ac-ft/yr)	53,855	92,109	123,222	141,620	160,298	182,500

Summary of Supporting Materials Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 9, 2023, from Mr. Chris Graham, Water Utility Support Manager for the City of Georgetown (see Digital Attachment /WILLIAMSON/GEORGETOWN_1.pdf).
2. A submitted workbook (see Digital Attachment /WILLIAMSON/GEORGETOWN_2.pdf) with the City's updated projections compared to the City's Water System Master Plan and Integrated Water Resources Plan (see Digital Attachments /WILLIAMSON/GEORGETOWN_3.pdf and GEORGETOWN_4, respectively).

Brazos G RWPG Analysis

The requested modifications to the WUG's municipal population and demand projections are consistent with the City's Water System Master Plan and Integrated Water Resources Plan and were adjusted by the City in April 2023 to account for lower growth in 2025-2027 due to economic downturn. The annual growth rate is representative of the WUG's near-term, rapid growth, and tapers down over the long-term.

The City of Georgetown is split into Bell, Burnet, and Williamson Counties. Burnet County is located within Region K. The population splits between these counties utilized for the Draft 2026 population projections are shown in Table 115.

Table 115 Percentage of Municipal Population for the City of Georgetown between Bell and Williamson Counties (Region G), and Burnet County (Region K) from the Draft 2026 Population Projections

County	Region	2030	2040	2050	2060	2070	2080
BELL	G	1.74%	1.36%	1.08%	0.88%	0.74%	0.62%
WILLIAMSON	G	98.04%	98.46%	98.77%	98.99%	99.15%	99.27%
BURNET	K	0.22%	0.18%	0.15%	0.13%	0.11%	0.10%

Brazos G RWPG Request

The Brazos G RWPG requests revision of the WUG's total population projections, based on the City's identified data and information. This request is to be disaggregated by county as shown in Table 116, based on the percentages shown in Table 115, which are consistent with the percentages employed for the development of the 2026 Draft population projections for the WUG.

Table 116 Summary of Requested Revisions to Population Projections for the City of Georgetown for Williamson and Bell Counties (Region G), and Burnet (Region K) County (2030 – 2080)

City of Georgetown		2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	Draft 2026	171,668	233,734	306,892	386,842	476,783	577,936
	Requested Population Projections	**272,462**	**476,246**	**654,502**	**772,543**	**898,034**	**1,043,487**
BELL (Region G)	Draft 2026	3,044	3,228	3,368	3,446	3,535	3,636
	Requested Population Projections	**4,831**	**6,577**	**7,183**	**6,882**	**6,658**	**6,565**
BURNET (Region K)	Draft 2026	392	433	468	506	550	599
	Requested Population Projections	**622**	**882**	**998**	**1,011**	**1,036**	**1,082**
TOTAL	Draft 2026	175,104	237,395	310,728	390,794	480,868	582,171
	Requested Population Projections	**277,915**	**483,705**	**662,683**	**780,435**	**905,728**	**1,051,133**

The Brazos G RWPGs request is consistent with the sixth criterion for adjustments, and the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criterion Item 6, and Data Items 7 and 8). The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests the use of the City's requested GPCD amounts for consistency with the City's identified plans, projected over the 2030 – 2080 period, without modification as shown in Table 117.

Table 117 Requested Per Capita Usage for the City of Georgetown (2030 – 2080)

City of Georgetown	2030	2040	2050	2060	2070	2080
Requested GPCD	173	170	166	162	158	155

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the eighth and ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). Data Requirement 8-d states, "Growth data in the residential, commercial and / or public sectors that would justify an increase or decrease in per capita water use." The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

Jarrell Schwertner CRU

Summary of Comments Received:

1. Request for revision to population projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. In response to the Brazos G RWPG survey, emails were received on June 30, 2023, from Ms. Laura Jardine, Assistant General Manager for the Jarrell-Schwertner WSC (see Digital Attachment /WILLIAMSON/JARRELLSCHWERTNER_1.pdf).
2. The WUG provided a current 2023 count of 2,577 connections, using the TCEQ 3 persons per connection to estimate a current 2023 population of 7,731.
3. A subsequent email was received on July 27, 2023, from Ms. Laura Jardine, Assistant General Manager for the Jarrell-Schwertner WSC (see Digital Attachment /Williamson/JarrellSchwertnerWSC/JarrellSchwertner_2.pdf). The WUG provided a spreadsheet (included within the Digital Attachment) documenting the WUG's estimated population growth for 2030, reflecting signed contracts for all but two of the identified developments. The WUG notes that those two that are reserved will advance forward but the contracts are in the process of being created by their lawyer.
4. The WUG estimates growth of 910 connections for an additional 2,730 population served in Bell County, while for Williamson County the estimated increase is 4,703 connections and 14,109 additional population.

Brazos G RWPG Analysis

For the purposes of the 2026 Brazos G Plan (and the preceding 2021 Brazos G Plan), the City of Jarrell and Jarrell-Schwertner WSC are aggregated as a single WUG spanning Bell and Williamson counties called the Jarrell Schwertner Consolidated Reporting Unit (CRU). Jarrell Schwertner WSC serves a substantial portion of the City of Jarrell, as well as portions of Bell and Williamson Counties. The Draft 2026 population projections were developed for this CRU.

To incorporate Jarrell Schwertner WSC's requested 2023 population and projected growth into the projections for the Jarrell Schwertner CRU, first the estimated populations reported in the 2021 Water Use Survey submitted by the Jarrell Schwertner WSC (1,950 for Bell County and 4,509 for Williamson County)) and the City of Jarrell (1,240) were summed for a total Jarrell Schwertner CRU 2021 population of 7,699.

For the City of Jarrell, an evaluation of the City's 2016-2021 Water Use Surveys indicates that the City's near-term 5-year annual growth rate is approximately 21.67%. This annual growth rate was applied to the City's estimated 2021 population (from its 2021 Water Use Survey) to calculate an estimated 2023 population of 1,836. For the Jarrell Schwertner WSC, the proportional splits of reported connections between Bell and Williamson Counties in 2021 (25.3% and 58.6%, respectively) were applied to the WSC's reported 2023 population estimate of 7,731 to calculate the WSC's 2023 split populations within Bell (2,334) and Williamson (5,397) Counties. Summation of the 2023 population estimates for the City (1,836) and JSWSC (7,731) results in a 2023 total population of 9,567 for the Jarrell Schwertner CRU.

To estimate the 2030 population projection for the City of Jarrell, the 21.67% near-term annual growth rate was applied to calculate a projected 2030 population of 7,247.

With the JSWSC's estimated 2023 portion of 5,397 people in Williamson County increased by the requested 14,109, the projected population for the JSWSC in Williamson County is 19506 by 2030.

Addition of the City's 2030 estimated population of 7,247 results in a projected population of 26,753 for the portion of the Jarrell Schwertner CRU in Williamson County by 2030.

With the JSWSC's estimated 2023 portion of 2,334 in Bell County increased by the requested 2,730 people, the resultant projected population for the portion of the Jarrell Schwertner CRU in Bell County by 2030 is 5,064.

The total projected population for the Jarrell Schwertner CRU is 31,817 by 2030.

The annual growth rates for the Jarrell Schwertner CRU derived from the Draft 2026 population projections for Bell and Williamson Counties are shown in Table 118.

Table 118 Projected Annual Growth Rates derived from the Draft 2026 Population Projections for the Jarrell Schwertner CRU in Bell and Williamson Counties (2040 – 2080)

County	2040	2050	2060	2070	2080
BELL	0.79%	0.57%	0.34%	0.37%	0.40%
WILLIAMSON	2.78%	2.52%	2.18%	1.99%	1.85%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the CRU's population projections as shown in Table 119. These revisions incorporate the Jarrell Schwertner WSC's estimates of current and near-term projected population growth, information submitted through each WUGs' Water User Surveys, supporting documentation of near-term growth, and long-term annual growth rates over the 2040 – 2080 period consistent with the Draft 2026 population projections for the CRU.

Table 119 Summary of Requested Revisions to Population Projections for the Jarrell Schwertner CRU in Bell and Williamson Counties (2030 – 2080)

Jarrell Schwertner CRU		2030	2040	2050	2060	2070	2080
BELL	Draft 2026	2,005	2,170	2,296	2,376	2,465	2,566
	Requested Population Projections	**5,064**	**5,479**	**5,799**	**5,999**	**6,225**	**6,479**
WILLIAMSON	Draft 2026	6,653	8,750	11,219	13,918	16,954	20,367
	Requested Population Projections	**26,753**	**35,193**	**45,138**	**56,002**	**68,199**	**81,920**
TOTAL	Draft 2026	8,658	10,920	13,515	16,294	19,419	22,933
	Requested Population Projections	**31,817**	**40,672**	**50,937**	**62,001**	**74,424**	**88,399**

The Brazos G RWPG's request is consistent with the sixth criterion for adjustments, and the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criterion Item 6, and Data Items 7 and 8). The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

City of Leander

Summary of Comments Received:

1. Request for revision to population, per capita usage, and water demand projections.
2. The City of Leander's revision request is based on a modified annual growth rate from the City's Comprehensive Plan.

Summary of Supporting Materials Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 8, 2023, from Ms. Gina Ellison, P.E., Public Works Director for the City of Leander (see Digital Attachment /WILLIAMSON/LEANDER_1.pdf).
2. The City of Leander provided historical and projected populations, per capita water usage, and water demand projections for the 2015 – 2042 period (see Digital Attachment /WILLIAMSON/LEANDER_2.pdf).
3. The City's requested long-term per-capita water usage is a constant 124 GPCD.

Brazos G RWPG Analysis

The 2020 Census amount utilized to develop the Draft 2026 population projections for the City of Leander is 66,009. For the Draft 2026 decadal projections, the annual growth rate used to calculate the 2030 projected population was approximately 4.7%, which then decreases by decade to an annual growth rate of 1.97%. Review of the 2010 – 2020 historical census population estimates provided by TWDB indicate a larger 5-yr and 10-yr 7.92% growth rate.

Evaluation of the City's reported population over the 2017 – 2022 period indicates an annual growth rate of 11.32%.

The City's calculated population for its utility service area in 2022 is 94,328. The annual growth rate identified by the City over the 2022 to 2030 period is approximately 7.55%, decreasing to 2.39% over the 2030 – 2040 period, and to 0.5% by 2042. Note that while these annual growth rates are based on the same population amounts projected by the City, these annual growth rates differ from the growth rates identified in the City's supporting documentation because the annual growth rates reported herein are cumulative annual growth rates, as noted at the beginning of this document.

The City of Leander's utility service area lies within both Williamson (Region G) and Travis (Region K) counties. The proportional split utilized for the Draft 2026 municipal population projections is shown in Table 120.

Table 120 – Percentage of Municipal Population for the City of Leander between Williamson County (Region G) and Travis County (Region K) from the Draft 2026 Population Projections

City of Leander	2030	2040	2050	2060	2070	2080
Williamson County (Region G)	81.15%	81.21%	82.30%	83.28%	83.96%	84.45%
Travis County (Region K)	18.85%	18.79%	17.70%	16.72%	16.04%	15.55%

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 121, based on the 2030 and 2040 populations consistent with the City's recent adjustments to its 2020 Comprehensive Plan. For the 2050 – 2080 municipal projections, it is requested that these amounts be calculated based on an annual growth rate of 0.50%, consistent with the City's estimated annual growth rate after 2040. This results in an increase in the 2030 – 2050 population projections for the City relative to the Draft 2026 projections, and a decrease in the 2060 – 2080 projections, as the City's estimates reflect a decreasing annual growth rate (down to 0.50%) in the long-term.

Table 121 – Summary of Requested Revisions to Population Projections for the City of Leander for Williamson (Region G) and Travis (Region K) Counties (2030 – 2080)

City of Leander		2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	Draft 2026	84,741	119,989	161,576	206,991	258,107	315,610
	Requested Population Projections	**137,045**	**173,735**	**185,078**	**196,856**	**208,617**	**220,564**
TRAVIS (Region K)	Draft 2026	19,679	27,769	34,750	41,563	49,311	58,119
	Requested Population Projections	**31,825**	**40,207**	**39,805**	**39,528**	**39,856**	**40,616**
TOTAL	Draft 2026	104,420	147,758	196,326	248,554	307,418	373,729
	Requested Population Projections	**168,870**	**213,942**	**224,883**	**236,384**	**248,473**	**261,180**

The Brazos G RWPG's request is consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Data Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests the use of the City's requested GPCD amount of 124 for consistency with the City's identified plans, projected over the 2030 – 2080 period, without modification as shown in Table 122.

Table 122 Requested Per Capita Usage for the City of Leander (2030 – 2080)

City of Leander	2030	2040	2050	2060	2070	2080
Requested GPCD	124	124	124	124	124	124

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the eighth and ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). Data Requirement 8-d states, "Growth data in the residential, commercial and / or public sectors that would justify an increase or decrease in per capita water use." The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

City of Round Rock

Summary of Comments Received:

1. Request for revision to population, per capita usage, and demand projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 8, 2023, from Mr. Kit Perkins, P.E., for the City of Round Rock (see Digital Attachment /WILLIAMSON/ROUNDROCK_1.pdf).
2. The population projections are from the City of Round Rock's Draft 2023 Water Master Plan and are representative of the City's water service CCN area.
3. The City has assumed a build-out condition by 2080.
4. The City's requested per capita usage is a constant 139 GPCD over the 2030 – 2080 planning period.

Brazos G RWPG Analysis

The City's requested population projections represent the entire CCN, which includes other Brazos G WUGs located within the City's CCN boundary. To appropriately account for the WUG's portion of the projections, the Brazos G RWPG performed an analysis to determine the City of Round Rock's projected WUG populations commensurate with both the City's requested population projections from their Draft 2023 Water Master Plan, and with the Draft 2026 projections for those WUGs located within the City's CCN boundary.

The Brazos G RWPG's analysis started with the WUG's total request, shown in Table 123.

Table 123 Requested Population Projections for the City of Round Rock

City of Round Rock	2030	2040	2050	2060	2070	2080
Total Identified Amount	167,177	204,643	242,109	252,476	262,844	273,212

The percentage of the WUG's split between Williamson County (Region G) and Travis County (Region K) was then calculated from the Draft 2026 municipal population projections for the WUG, shown in Table 124.

Table 124 Percentage Split for the City of Round Rock between Williamson County (Region G) and Travis County (Region K) from the Draft 2026 Municipal Population Projections (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	98.60%	98.54%	98.55%	98.58%	98.50%	98.31%
TRAVIS (Region K)	1.40%	1.46%	1.45%	1.42%	1.50%	1.69%

These percentages were applied to the WUG's total requested population projections, resulting in the amounts shown in Table 125.

Table 125 City of Round Rock Requested Population Projections split between Williamson (Region G) and Travis (Region K) Counties (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	164,843	201,650	238,595	248,881	258,911	268,582
TRAVIS (Region K)	2,334	2,993	3,514	3,595	3,933	4,630

Next, the Draft 2026 population projections for those WUGs, or portions of WUGs, located within the City of Round Rock's CCN were tabulated and summed, as shown in Table 126. These amounts were identified through a GIS analysis, evaluating the portion of the PWS service area located within the City's CCN. All of the WUGs identified are within the CCN, except Manville WSC (a Region K primary WUG), where a portion is located within the CCN. To determine a representative portion, the proportion of the WUG's service area within the CCN was applied to the WUG's Draft 2026 projected population to determine the population within the City's CCN. This was performed for the portion of Manville WSC located within the CCN in both Williamson and Travis Counties. Given the relatively small magnitude of the estimated projected population, an aerial proportion was deemed appropriate.

Table 126 Draft 2026 Population Projections for Portions of WUGs located within the City of Round Rock CCN (2030 – 2080)

WUGs	2030	2040	2050	2060	2070	2080
Vista Oaks MUD	2,724	2,724	2,724	2,724	2,724	2,724
Walsh Ranch MUD	812	812	812	812	812	812
Paloma Lake MUD 2	2,469	2,469	2,469	2,469	2,469	2,469
Paloma Lake MUD 1	3,395	3,395	3,395	3,395	3,395	3,395
Williamson County MUD 11	5,832	8,355	11,332	14,583	18,243	22,359
Williamson County MUD 10	3,723	3,723	3,723	3,723	3,723	3,723
Manville WSC (Williamson County)	8	8	8	8	8	8
Manville WSC (Travis County)	6	7	8	9	11	12
Sub-Total Williamson (Region G)	18,963	21,486	24,463	27,714	31,374	35,490
Sub-Total Travis (Region K)	6	7	8	9	11	12
TOTAL	**18,969**	**21,493**	**24,471**	**27,723**	**31,385**	**35,502**

The sub-totals of the Draft 2026 projected populations for the portions of the identified WUGs located within the City of Round Rock's CCN (Table 125) were then each subtracted from the respective county split amounts (Table 126) to determine the City of Round Rock's WUG projected WUG populations, as shown in Table 127.

Table 127 WUG Population Projections for the City of Round Rock in Williamson (Region G) and Travis (Region K) Counties (2030 – 2080)

County	2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	145,880	180,164	214,132	221,167	227,537	233,092
TRAVIS (Region K)	2,328	2,986	3,506	3,586	3,922	4,618
WUG TOTAL	**148,208**	**183,150**	**217,638**	**224,753**	**231,459**	**237,710**

These amounts, when combined with the projected WUG populations for the WUGs, result in a total amount equivalent to the City's requested population projections for the entire area of the CCN.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 128, based on the City of Round Rock's requested population projections.

Table 128 Summary of Requested Revisions to Population Projections for the City of Round Rock WUG for Williamson (Region G) and Travis (Region K) Counties (2030 – 2080)

City of Round Rock		2030	2040	2050	2060	2070	2080
WILLIAMSON (Region G)	Draft 2026	140,893	164,337	191,737	221,875	239,565	239,565
	Requested Population Projections	**145,880**	**180,164**	**214,132**	**221,167**	**227,537**	**233,092**
TRAVIS (Region K)	Draft 2026	1,995	2,439	2,824	3,205	3,639	4,130
	Requested Population Projections	**2,328**	**2,986**	**3,506**	**3,586**	**3,922**	**4,618**
TOTAL	Draft 2026	142,888	166,776	194,561	225,080	243,204	243,695
	Requested Population Projections	**148,208**	**183,150**	**217,638**	**224,753**	**231,459**	**237,710**

The Brazos G RWPG's population requests are consistent with the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Data Items 7 and 8). The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests the use of the City's requested GPCD amount of 139, projected over the 2030 – 2080 period, without modification, for consistency with the City's identified plans. This 139 GPCD is also requested for the following WUGs identified in Table 129 included in the City of Round Rock's request:

Table 129 Requested Per Capita Usage for WUGs located within the City of Round Rock's CCN Area (2030 – 2080)

WUG	Constant GPCD
Vista Oaks MUD	139
Walsh Ranch MUD	139
Paloma Lake MUD 2	139
Paloma Lake MUD 1	139
Williamson County MUD 11	139
Williamson County MUD 10	139
Round Rock	139

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the eighth and ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). Data Requirement 8-d states, "Growth data in the residential, commercial and / or public sectors that would justify an increase or decrease in per capita water use." The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

City of Taylor

Summary of Comments Received:

1. Request for revision to population, per capita use, and demand projections (demand projections are addressed later in this document).

Summary of Supporting Materials Received:

1. In response to the Brazos G RWPG survey, a response email was received on June 9, 2023, from Ms. Heather Lindner, P.E., consultant submitting on behalf of the City of Taylor (see Digital Attachment /WILLIAMSON/TAYLOR_1.pdf).
2. The City's survey response (see Digital Attachment /WILLIAMSON/TAYLOR_2.pdf) notes:

   "The City's Envision Taylor Comprehensive Plan carefully evaluated historical population and Williamson County trends and developed projections to 2040. Those projections were extrapolated to 2080 at a rate of 3% population growth per year. In 2020, Taylor purchased 2.22 MGD from BRA and sold 0.28 MGD to wholesale customers. The remaining 1.94 MGD and a population of 16,267 was utilized to calculate the average per capita usage of 120 GPCD."
3. The City provided a table of requested 2030 – 2080 projections of population, per capita use, and demand (see Digital Attachment /WILLIAMSON/TAYLOR_3.pdf).
4. The City's Envision Taylor Comprehensive Plan is included by reference (see Digital Attachment /WILLIAMSON/TAYLOR_4.pdf).

Brazos G RWPG Analysis

The revisions requested are consistent with the documentation provided by the WUG.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the WUG's population projections as shown in Table 130, based on the City's projected growth as documented in its Comprehensive Plan.

Table 130 Summary of Requested Revisions to Population Projections for the City of Taylor for Williamson County (2030 – 2080)

City of Taylor		2030	2040	2050	2060	2070	2080
WILLIAMSON	Draft 2026	16,686	17,940	19,378	20,982	22,762	24,748
	Requested Population Projections	**27,500**	**39,552**	**53,155**	**71,435**	**96,003**	**96,003**

This request is consistent with the sixth criterion for adjustments, and the seventh and eighth data requirements for adjustments identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.1.4, Criterion Item 6, and Data Items 7 and 8). The sixth criterion for adjustment states, "Plans for new residential development in the near future that has not been counted in the draft projections." The seventh data requirement states, "Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size." The eighth data requirement states, "Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection."

The Brazos G RWPG further requests the use of the City's requested GPCD amount of 120, projected over the 2030 – 2080 period, without modification, for consistency with the WUG's identified plan (Table 131).

Table 131 Requested Per Capita Usage for the City of Taylor (2030 – 2080)

City of Taylor	2030	2040	2050	2060	2070	2080
Requested GPCD	120	120	120	120	120	120

The Brazos G RWPG's requests for revisions to the per capita usage are consistent with the eighth and ninth data requirement for adjustments identified in the Exhibit C Guidelines for municipal water demand projections (Section 2.2.2.1, Data Items 8-d and 9). Data Requirement 8-d states, "Growth data in the residential, commercial and / or public sectors that would justify an increase or decrease in per capita water use." The ninth data requirement states, "Other data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the municipal water demand projections."

Remaining Adjustments by County

Each of the WUG-specific requests to the population projections supersede (or overlay) the region-wide requested revisions. As such, those WUGs without WUG-specific requests are based upon the applicable region-wide adjustments applied to the individual WUGs in each county (i.e., adjustments to address the demographic undercounts and use of the 0.5-migration scenarios for WUGs in certain counties. The requested adjustments for those WUGs are reflected in the Digital Attachment to this document and are summarized by county in Table 132.

Table 132 Summary of Requested Revisions to Population Projections in Counties without WUG-Specific Requests (2030-2080)

Bosque	2030	2040	2050	2060	2070	2080
2026 Draft	18,235	17,801	17,128	16,518	15,832	15,061
Demographic Undercount Adjustment	200	194	186	181	173	166
Requested Population Projections	**18,435**	**17,995**	**17,314**	**16,699**	**16,005**	**15,227**
Net County Increase	200	194	186	181	173	166
Callahan	2030	2040	2050	2060	2070	2080
2026 Draft	14,217	14,194	14,068	13,901	13,713	13,502
Demographic Undercount Adjustment	96	94	94	92	92	89
Requested Population Projections	**14,313**	**14,288**	**14,162**	**13,993**	**13,805**	**13,591**
Net County Increase	96	94	94	92	92	89
Comanche	2030	2040	2050	2060	2070	2080
2026 Draft	13,359	12,893	12,121	11,478	10,755	9,942
0.5-migration Adjustment	84	291	670	1,167	1,737	2,389
Demographic Undercount Adjustment	207	204	198	194	193	190
Requested Population Projections	**13,650**	**13,388**	**12,989**	**12,839**	**12,685**	**12,521**
Net County Increase	291	495	868	1,361	1,930	2,579
Eastland	2030	2040	2050	2060	2070	2080
2026 Draft	17,503	16,839	15,945	15,059	14,063	12,943
0.5-migration Adjustment	71	299	615	1,078	1,630	2,284
Demographic Undercount Adjustment	173	169	162	158	153	148
Requested Population Projections	**17,747**	**17,307**	**16,722**	**16,295**	**15,846**	**15,375**
Net County Increase	244	468	777	1,236	1,783	2,432
Erath	2030	2040	2050	2060	2070	2080
2026 Draft	47,853	51,746	56,431	62,513	69,351	77,039
Demographic Undercount Adjustment	34	30	27	23	20	18
Requested Population Projections	**0**	**0**	**0**	**0**	**0**	**0**
Net County Increase	47,887	51,776	56,458	62,536	69,371	77,057

Fisher	2030	2040	2050	2060	2070	2080
2026 Draft	3,464	3,278	3,108	2,998	2,874	2,735
0.5-migration Adjustment	38	98	172	234	308	394
Demographic Undercount Adjustment	57	55	54	53	52	52
Requested Population Projections	**3,559**	**3,431**	**3,334**	**3,285**	**3,234**	**3,181**
Net County Increase	95	153	226	287	360	446
Grimes	2030	2040	2050	2060	2070	2080
2026 Draft	31,625	33,571	35,192	36,541	38,058	39,763
Demographic Undercount Adjustment	545	580	606	630	656	686
Requested Population Projections	**32,170**	**34,151**	**35,798**	**37,171**	**38,714**	**40,449**
Net County Increase	545	580	606	630	656	686
Hamilton	2030	2040	2050	2060	2070	2080
2026 Draft	8,201	8,086	7,930	7,821	7,698	7,560
Demographic Undercount Adjustment	65	63	61	61	59	58
Requested Population Projections	**8,266**	**8,149**	**7,991**	**7,882**	**7,757**	**7,618**
Net County Increase	65	63	61	61	59	58
Haskell	2030	2040	2050	2060	2070	2080
2026 Draft	5,330	5,234	5,032	4,891	4,732	4,553
0.5-migration Adjustment	-16	-22	18	106	209	329
Demographic Undercount Adjustment	86	85	82	82	80	80
Requested Population Projections	**5,400**	**5,297**	**5,132**	**5,079**	**5,021**	**4,962**
Net County Increase	70	63	100	188	289	409
Hood	2030	2040	2050	2060	2070	2080
2026 Draft	70,845	79,468	88,216	97,684	108,328	120,295
Demographic Undercount Adjustment	526	592	656	726	805	895
Requested Population Projections	**71,371**	**80,060**	**88,872**	**98,410**	**109,133**	**121,190**
Net County Increase	526	592	656	726	805	895
Jones	2030	2040	2050	2060	2070	2080
2026 Draft	18,879	17,925	16,868	15,789	14,576	13,212
0.5-migration Adjustment	257	569	927	1,272	1,714	2,268
Demographic Undercount Adjustment	360	346	334	322	306	289
Requested Population Projections	**19,496**	**18,840**	**18,129**	**17,383**	**16,596**	**15,769**
Net County Increase	617	915	1,261	1,594	2,020	2,557

Kent	2030	2040	2050	2060	2070	2080
2026 Draft	729	732	743	768	796	827
Demographic Undercount Adjustment	8	8	8	8	9	9
Requested Population Projections	**737**	**740**	**751**	**776**	**805**	**836**
Net County Increase	8	8	8	8	9	9
Knox	2030	2040	2050	2060	2070	2080
2026 Draft	3,138	2,951	2,732	2,548	2,341	2,108
0.5-migration Adjustment	108	273	434	558	702	869
Demographic Undercount Adjustment	62	62	62	61	59	58
Requested Population Projections	**3,308**	**3,286**	**3,228**	**3,167**	**3,102**	**3,035**
Net County Increase	170	335	496	619	761	927
Limestone	2030	2040	2050	2060	2070	2080
2026 Draft	21,375	20,241	18,834	17,394	15,775	13,955
0.5-migration Adjustment	354	890	1,499	2,202	3,047	4,054
Demographic Undercount Adjustment	378	366	353	339	326	311
Requested Population Projections	**22,107**	**21,497**	**20,686**	**19,935**	**19,148**	**18,320**
Net County Increase	732	1,256	1,852	2,541	3,373	4,365
Nolan	2030	2040	2050	2060	2070	2080
2026 Draft	14,224	13,676	13,077	12,380	11,596	10,715
0.5-migration Adjustment	322	719	1,068	1,476	1,956	2,518
Demographic Undercount Adjustment	318	315	310	304	296	289
Requested Population Projections	**14,864**	**14,710**	**14,455**	**14,160**	**13,848**	**13,522**
Net County Increase	640	1,034	1,378	1,780	2,252	2,807
Shackelford	2030	2040	2050	2060	2070	2080
2026 Draft	2,806	2,508	2,214	1,980	1,717	1,421
0.5-migration Adjustment	128	246	351	431	532	658
Demographic Undercount Adjustment	20	18	18	17	15	14
Requested Population Projections	**2,954**	**2,772**	**2,583**	**2,428**	**2,264**	**2,093**
Net County Increase	148	264	369	448	547	672
Stephens	2030	2040	2050	2060	2070	2080
2026 Draft	8,723	8,203	7,576	7,032	6,420	5,732
0.5-migration Adjustment	195	493	818	1,179	1,599	2,085
Demographic Undercount Adjustment	126	122	120	115	113	112
Requested Population Projections	**9,044**	**8,818**	**8,514**	**8,326**	**8,132**	**7,929**
Net County Increase	321	615	938	1,294	1,712	2,197

Stonewall	2030	2040	2050	2060	2070	2080
2026 Draft	1,056	932	792	700	597	481
0.5-migration Adjustment	58	117	164	201	246	301
Demographic Undercount Adjustment	14	11	11	10	10	9
Requested Population Projections	**1,128**	**1,060**	**967**	**911**	**853**	**791**
Net County Increase	72	128	175	211	256	310
Taylor	2030	2040	2050	2060	2070	2080
2026 Draft	156,945	169,708	180,699	192,255	205,247	219,853
Demographic Undercount Adjustment	2,485	2,690	2,860	3,045	3,251	3,481
Requested Population Projections	**159,430**	**172,398**	**183,559**	**195,300**	**208,498**	**223,334**
Net County Increase	2,485	2,690	2,860	3,045	3,251	3,481
Throckmorton	2030	2040	2050	2060	2070	2080
2026 Draft	1,243	1,100	946	821	680	521
0.5-migration Adjustment	41	88	159	227	308	404
Demographic Undercount Adjustment	9	9	8	6	6	6
Requested Population Projections	**1,293**	**1,197**	**1,113**	**1,054**	**994**	**931**
Net County Increase	50	97	167	233	314	410
Young	2030	2040	2050	2060	2070	2080
2026 Draft	14,419	14,221	13,745	13,344	12,893	12,386
0.5-migration Adjustment	111	317	653	1,080	1,558	2,093
Demographic Undercount Adjustment	127	127	124	125	124	125
Requested Population Projections	**14,657**	**14,665**	**14,522**	**14,549**	**14,575**	**14,604**
Net County Increase	238	444	777	1,205	1,682	2,218

Summary of Requested Region G Population Revisions by County/WUG

A compilation of all projected WUG populations for Region G WUGs, including requested revisions, is presented in Table 133. As the requested revisions include county- wide adjustments, this table includes those portions of any WUGs with service areas located in a county in the Region G planning area, including WUGs for which other RWPGs are primarily responsible. These requested amounts have been shared with the technical consultants of the applicable RWPGs to ensure consistency between the regions. The requested revisions to the Region G municipal WUG population projections are color coded as denoted.

Legend	Description
Black	Projection based on Brazos G RWPG's requested use of 1.0 Migration Scenario for a specific county.
Green	Projection based on Brazos G RWPG's requested use of 0.5 Migration Scenario for a specific county.
Red	Revision based on WUG-specific request.
Yellow Highlight	Projection based on the Brazos G RWPG's requested use of a county-side adjustment (i.e., to address demographic undercount and (if applicable) use of the 0.5-migration scenario to a portion of a WUG within Region G but that is primarily located in another regional water planning area.

Table 133 WUG Population Projections with Brazos G RWPG Requested Revisions Identified (2030 – 2080)

County	WUG	2030	2040	2050	2060	2070	2080	Comment
BELL	439 WSC	**12,327**	**14,490**	**16,700**	**18,961**	**21,285**	**23,609**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Armstrong WSC	3,155	3,559	3,867	4,081	4,319	4,587	Based on requested adjustment for demographic undercounts.
BELL	Bartlett	664	634	611	584	554	524	Based on requested adjustment for demographic undercounts.
BELL	Bell County WCID 1	**264**	**264**	**264**	**264**	**264**	**264**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Bell County WCID 2	1,796	1,902	1,983	2,027	2,077	2,135	Based on requested adjustment for demographic undercounts.
BELL	Bell County WCID 3	**9,460**	**11,636**	**14,996**	**18,356**	**19,140**	**19,924**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Bell Milam Falls WSC	2,263	2,404	2,511	2,573	2,642	2,721	Based on requested adjustment for demographic undercounts.
BELL	Belton	**28,600**	**36,000**	**45,100**	**56,600**	**71,000**	**85,400**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Central Texas College District	548	548	548	548	548	548	Based on requested adjustment for demographic undercounts.
BELL	County-Other, Bell	4,610	5,192	5,408	5,012	4,320	3,347	Based on requested adjustment for demographic undercounts.
BELL	Dog Ridge WSC	5,016	5,642	6,122	6,453	6,824	7,238	Based on requested adjustment for demographic undercounts.
BELL	East Bell WSC	2,320	2,176	2,063	1,945	1,815	1,673	Based on requested adjustment for demographic undercounts.
BELL	Elm Creek WSC	**2,556**	**2,727**	**2,892**	**3,040**	**3,188**	**3,336**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Fort Hood	**20,634**	**21,461**	**22,287**	**23,114**	**23,940**	**24,767**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Georgetown	**4,831**	**6,577**	**7,183**	**6,882**	**6,658**	**6,565**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Harker Heights	**36,879**	**42,566**	**48,218**	**50,000**	**50,000**	**50,000**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
BELL	Holland	1,209	1,232	1,251	1,269	1,288	1,306	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Jarrell-Schwertner	5,064	5,479	5,799	5,999	6,225	6,479	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Kempner WSC	2,543	2,787	2,974	3,095	3,232	3,385	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Killeen	173,431	198,764	221,697	247,195	272,291	297,387	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Little Elm Valley WSC	1,824	2,010	2,154	2,249	2,356	2,475	Based on requested adjustment for demographic undercounts.
BELL	Moffat WSC	2,066	1,844	1,646	1,469	1,311	1,170	Based on requested adjustment for demographic undercounts.
BELL	Morgans Point Resort	5,300	5,800	6,300	6,800	7,300	7,800	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Pendleton WSC	2,235	2,407	2,538	2,618	2,710	2,813	Based on requested adjustment for demographic undercounts.
BELL	Rogers	918	891	868	839	808	774	Based on requested adjustment for demographic undercounts.
BELL	Salado WSC	7,529	8,442	9,464	10,610	11,895	13,337	Based on requested adjustment for demographic undercounts.
BELL	Temple	115,562	129,327	139,891	147,103	155,187	164,252	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	The Grove WSC	1,149	1,369	1,586	1,805	2,023	2,242	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Troy	3,847	4,122	4,397	4,672	4,947	5,222	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	West Bell County WSC	4,335	4,650	4,890	5,034	5,199	5,384	Based on requested adjustment for demographic undercounts.
BOSQUE	Childress Creek WSC	1,293	1,262	1,213	1,171	1,121	1,067	Based on requested adjustment for demographic undercounts.
BOSQUE	Clifton	3,511	3,776	4,061	4,368	4,697	5,052	Based on requested adjustment for demographic undercounts.
BOSQUE	County-Other, Bosque	6,648	5,964	5,083	4,219	3,269	2,224	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
BOSQUE	Cross Country WSC	281	274	264	254	243	231	Based on requested adjustment for demographic undercounts.
BOSQUE	Highland Park WSC	352	343	330	318	305	290	Based on requested adjustment for demographic undercounts.
BOSQUE	Hilco United Services	1,309	1,405	1,508	1,618	1,737	1,865	Based on requested adjustment for demographic undercounts.
BOSQUE	Hog Creek WSC	73	71	69	66	63	61	Based on requested adjustment for demographic undercounts.
BOSQUE	Meridian	1,758	1,716	1,652	1,594	1,528	1,455	Based on requested adjustment for demographic undercounts.
BOSQUE	Mustang Valley WSC	1,835	1,790	1,722	1,660	1,591	1,513	Based on requested adjustment for demographic undercounts.
BOSQUE	Smith Bend WSC	128	125	120	116	111	105	Based on requested adjustment for demographic undercounts.
BOSQUE	Valley Mills	1,247	1,269	1,292	1,315	1,340	1,364	Based on requested adjustment for demographic undercounts.
BRAZOS	Bryan	**103,527**	**122,757**	**145,418**	**172,357**	**217,070**	**273,294**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BRAZOS	College Station	124,105	140,635	165,452	194,489	191,010	187,998	Based on requested adjustment for demographic undercounts.
BRAZOS	County-Other, Brazos	2,497	2,584	2,961	3,131	3,436	3,864	Based on requested adjustment for demographic undercounts.
BRAZOS	Texas A and M University	19,681	19,681	19,681	19,681	19,681	19,681	Based on requested adjustment for demographic undercounts.
BRAZOS	Wellborn SUD	27,844	31,712	37,506	44,684	52,741	61,791	Based on requested adjustment for demographic undercounts.
BRAZOS	Wickson Creek SUD	18,215	20,731	24,501	29,168	34,407	40,294	Based on requested adjustment for demographic undercounts.
BURLESON	Cade Lakes WSC	436	439	437	434	430	426	Based on requested adjustment for demographic undercounts.
BURLESON	Caldwell	**4,293**	**4,326**	**4,310**	**4,286**	**4,260**	**4,231**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BURLESON	County-Other, Burleson	**7,076**	**7,080**	**6,970**	**6,847**	**6,708**	**6,555**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BURLESON	Deanville WSC	1,926	1,940	1,928	1,914	1,898	1,881	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
BURLESON	Milano WSC	1,320	1,337	1,354	1,371	1,389	1,408	Based on requested adjustment for demographic undercounts.
BURLESON	Snook	1,170	1,179	1,173	1,161	1,152	1,143	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BURLESON	Somerville	1,316	1,324	1,317	1,308	1,297	1,284	Based on requested adjustment for demographic undercounts.
BURLESON	Southwest Milam WSC	794	833	875	918	965	1,013	Based on requested adjustment for demographic undercounts.
CALLAHAN	Baird	1,537	1,535	1,523	1,507	1,490	1,470	Based on requested adjustment for demographic undercounts.
CALLAHAN	Callahan County WSC	2,304	2,343	2,383	2,424	2,466	2,508	Based on requested adjustment for demographic undercounts.
CALLAHAN	Clyde	3,979	4,007	4,035	4,063	4,091	4,120	Based on requested adjustment for demographic undercounts.
CALLAHAN	Coleman County SUD	169	177	185	193	202	211	Based on requested adjustment for demographic undercounts.
CALLAHAN	County-Other, Callahan	2,126	1,940	1,669	1,359	1,028	675	Based on requested adjustment for demographic undercounts.
CALLAHAN	Cross Plains	920	918	910	899	887	872	Based on requested adjustment for demographic undercounts.
CALLAHAN	Eula WSC	2,629	2,711	2,797	2,884	2,975	3,068	Based on requested adjustment for demographic undercounts.
CALLAHAN	Hamby WSC	243	251	258	266	274	282	Based on requested adjustment for demographic undercounts.
CALLAHAN	Potosi WSC	231	231	229	226	223	219	Based on requested adjustment for demographic undercounts.
CALLAHAN	Westbound WSC	175	175	173	172	169	166	Based on requested adjustment for demographic undercounts.
COMANCHE	Comanche	4,307	4,259	4,183	4,158	4,138	4,120	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
COMANCHE	County-Other, Comanche	7,117	6,845	6,445	6,276	6,087	5,870	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
COMANCHE	De Leon	2,226	2,284	2,361	2,405	2,460	2,531	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Central Texas College District	343	343	343	343	343	343	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
CORYELL	Copperas Cove	48,375	67,875	95,394	134,081	188,760	243,424	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
CORYELL	Coryell City Water Supply District	4,984	5,099	5,163	5,131	5,098	5,069	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	County-Other, Coryell	3,543	3,737	3,668	3,328	2,931	2,468	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Elm Creek WSC	489	492	492	490	484	474	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
CORYELL	Flat WSC	682	698	707	700	695	691	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Fort Gates WSC	2,345	2,402	2,430	2,413	2,395	2,376	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Fort Hood	15,566	16,190	16,813	17,437	18,060	18,684	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
CORYELL	Gatesville	15,649	15,956	16,219	16,239	16,284	16,353	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Kempner WSC	4,881	4,998	5,057	5,020	4,982	4,943	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
CORYELL	Mountain WSC	1,955	2,002	2,024	2,010	1,994	1,979	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Multi County WSC	3,306	3,386	3,425	3,400	3,373	3,348	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Mustang Valley WSC	27	27	28	27	28	26	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Oglesby	515	528	534	530	526	522	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
CORYELL	The Grove WSC	168	199	231	263	294	326	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
EASTLAND	Cisco	3,947	4,027	4,135	4,172	4,225	4,295	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	County-Other, Eastland	2,976	2,877	2,504	2,338	2,055	1,636	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Eastland	3,515	3,187	2,908	2,684	2,499	2,357	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Gorman	952	886	798	745	685	619	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Ranger	2,273	2,146	2,039	1,959	1,899	1,865	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Rising Star	698	659	626	601	583	572	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Staff WSC	1,156	1,259	1,396	1,466	1,549	1,649	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Westbound WSC	2,230	2,266	2,316	2,330	2,351	2,382	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ERATH	County-Other, Erath	18,207	19,748	21,549	23,679	26,068	28,756	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
ERATH	Dublin	2,877	2,582	2,322	2,019	1,759	1,537	Based on requested adjustment for demographic undercounts.
ERATH	Gordon	6	6	6	6	6	6	Based on requested adjustment for demographic undercounts.
ERATH	Stephenville	26,797	29,440	32,581	36,832	41,538	46,758	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
FALLS	Bell Milam Falls WSC	1,254	1,169	1,079	993	901	797	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	Bruceville Eddy	1,253	1,654	1,766	1,885	2,013	2,273	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
FALLS	Cego-Durango WSC	1,174	1,343	1,527	1,676	1,875	2,154	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	County-Other, Falls	6,889	6,241	5,485	4,767	3,806	2,510	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	East Bell WSC	117	119	122	125	132	143	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	Levi WSC	393	515	635	718	802	882	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
FALLS	Little Elm Valley WSC	46	70	95	117	143	179	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	Marlin	4,571	4,317	4,104	3,924	3,839	3,890	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	North Milam WSC	9	7	6	5	4	3	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	Rosebud	1,190	1,109	1,036	953	892	853	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FALLS	West Brazos WSC	770	739	715	696	693	714	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FISHER	County-Other, Fisher	907	874	850	835	823	811	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FISHER	Roby	533	514	498	491	483	475	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FISHER	Rotan	1,436	1,386	1,346	1,328	1,306	1,285	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FISHER	S U N WSC	16	15	15	15	16	14	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FISHER	The Bitter Creek WSC	667	642	625	616	606	596	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
GRIMES	County-Other, Grimes	10,456	10,977	11,335	11,491	11,551	11,445	Based on requested adjustment for demographic undercounts.
GRIMES	Dobbin Plantersville WSC	4,587	5,071	5,469	5,822	6,221	6,672	Based on requested adjustment for demographic undercounts.
GRIMES	G and W WSC	1,398	1,500	1,584	1,656	1,737	1,827	Based on requested adjustment for demographic undercounts.
GRIMES	MSEC Enterprises	196	305	474	736	1,143	1,776	Based on requested adjustment for demographic undercounts.
GRIMES	Navasota	7,917	8,239	8,513	8,722	8,956	9,216	Based on requested adjustment for demographic undercounts.
GRIMES	TDCJ Luther Units	1,170	1,170	1,170	1,170	1,170	1,170	Based on requested adjustment for demographic undercounts.
GRIMES	TDCJ W Pack Unit	1,675	1,675	1,675	1,675	1,675	1,675	Based on requested adjustment for demographic undercounts.
GRIMES	Wickson Creek SUD	4,771	5,214	5,578	5,899	6,261	6,668	Based on requested adjustment for demographic undercounts.
HAMILTON	Coryell City Water Supply District	257	263	273	273	273	273	Based on requested adjustment for demographic undercounts.
HAMILTON	County-Other, Hamilton	3,461	3,433	3,389	3,348	3,297	3,235	Based on requested adjustment for demographic undercounts.
HAMILTON	Hamilton	2,700	2,693	2,693	2,654	2,610	2,562	Based on requested adjustment for demographic undercounts.
HAMILTON	Hico	1,224	1,197	1,171	1,146	1,120	1,096	Based on requested adjustment for demographic undercounts.
HAMILTON	Multi County WSC	624	563	465	461	457	452	Based on requested adjustment for demographic undercounts.
HASKELL	County-Other, Haskell	2,221	2,178	2,090	2,058	2,022	1,985	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
HASKELL	Haskell	3,179	3,119	3,042	3,021	2,999	2,977	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
HILL	Birome WSC	677	697	711	723	739	756	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
HILL	Bold Springs WSC	128	132	134	138	140	143	Based on requested adjustment for demographic undercounts.
HILL	Brandon Irene WSC	1,949	2,005	2,045	2,084	2,129	2,180	Based on requested adjustment for demographic undercounts.
HILL	Chatt WSC	1,251	1,289	1,312	1,337	1,364	1,398	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
HILL	County-Other, Hill	4,438	4,568	4,655	4,742	4,841	4,949	Based on requested adjustment for demographic undercounts.
HILL	Double Diamond Utilities	1,342	1,381	1,407	1,434	1,463	1,497	Based on requested adjustment for demographic undercounts.
HILL	Files Valley WSC	4,643	4,779	4,871	4,964	5,069	5,187	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
HILL	Gholson WSC	1,125	1,160	1,180	1,201	1,228	1,257	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
HILL	Hilco United Services	4,651	4,790	4,877	4,971	5,075	5,191	Based on requested adjustment for demographic undercounts.
HILL	Hill County WSC	3,010	3,102	3,157	3,217	3,284	3,361	Based on requested adjustment for demographic undercounts.
HILL	Hillsboro	14,997	20,963	27,569	34,881	42,970	51,914	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
HILL	Hubbard	1,480	1,523	1,550	1,580	1,613	1,651	Based on requested adjustment for demographic undercounts.
HILL	Itasca	1,698	1,748	1,780	1,814	1,852	1,895	Based on requested adjustment for demographic undercounts.
HILL	Navarro Mills WSC	17	19	18	19	19	20	Based on requested adjustment for demographic undercounts.
HILL	Parker WSC	259	267	271	276	283	288	Based on requested adjustment for demographic undercounts.
HILL	Post Oak SUD	878	904	920	938	957	979	Based on requested adjustment for demographic undercounts.
HILL	Rio Vista	5	5	5	6	6	6	Based on requested adjustment for demographic undercounts.
HILL	Whitney	2,424	2,496	2,541	2,590	2,646	2,707	Based on requested adjustment for demographic undercounts.
HILL	Woodrow Osceola WSC	2,842	2,926	2,979	3,035	3,100	3,172	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
HOOD	Acton MUD	11,497	12,488	13,563	14,732	16,001	17,380	Based on requested adjustment for demographic undercounts.
HOOD	County-Other, Hood	41,090	46,243	51,396	56,945	63,226	70,335	Based on requested adjustment for demographic undercounts.
HOOD	Granbury	16,684	18,969	21,288	23,820	26,669	29,871	Based on requested adjustment for demographic undercounts.
HOOD	Lipan	937	1,020	1,103	1,189	1,287	1,397	Based on requested adjustment for demographic undercounts.
HOOD	Santo SUD	10	7	5	4	3	2	Based on requested adjustment for demographic undercounts.
HOOD	Tolar	1,153	1,333	1,517	1,720	1,947	2,205	Based on requested adjustment for demographic undercounts.
JOHNSON	Acton MUD	71	64	57	51	46	41	Based on requested adjustment for demographic undercounts.
JOHNSON	Alvarado	4,988	5,732	6,477	7,150	7,908	8,756	Based on requested adjustment for demographic undercounts.
JOHNSON	Bethany SUD	3,488	3,852	4,214	4,531	4,889	5,290	Based on requested adjustment for demographic undercounts.
JOHNSON	Bethesda WSC	35,321	40,859	46,413	51,444	57,094	63,439	Based on requested adjustment for demographic undercounts.
JOHNSON	Burleson	42,810	50,305	57,834	64,697	72,401	81,047	Based on requested adjustment for demographic undercounts.
JOHNSON	Cleburne	**36,047**	**41,834**	**48,550**	**56,344**	**65,390**	**75,888**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
JOHNSON	County-Other, Johnson	**12,805**	**13,084**	**9,227**	**6,487**	**4,313**	**3,385**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
JOHNSON	Crowley	178	262	349	429	520	622	Based on requested adjustment for demographic undercounts.
JOHNSON	Double Diamond Utilities	550	737	926	1,103	1,301	1,524	Based on requested adjustment for demographic undercounts.
JOHNSON	Fort Worth	0	0	5,081	8,066	10,001	9,917	Based on requested adjustment for demographic undercounts.
JOHNSON	Godley	1,365	1,562	1,760	1,939	2,139	2,363	Based on requested adjustment for demographic undercounts.
JOHNSON	Grandview	1,754	1,996	2,238	2,455	2,699	2,975	Based on requested adjustment for demographic undercounts.
JOHNSON	Johnson County SUD	**69,832**	**88,295**	**98,435**	**107,461**	**117,620**	**129,052**	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
JOHNSON	Keene	6,066	6,361	6,650	6,876	7,130	7,421	Based on requested adjustment for demographic undercounts.
JOHNSON	Mansfield	6,512	9,258	12,029	14,640	17,563	20,835	Based on requested adjustment for demographic undercounts.
JOHNSON	Mountain Peak SUD	4,710	5,852	7,271	9,035	11,226	13,949	Based on requested adjustment for demographic undercounts.
JOHNSON	Parker WSC	1,676	1,657	1,635	1,599	1,560	1,519	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
JOHNSON	Rio Vista	1,064	1,212	1,382	1,575	1,794	2,045	Based on requested adjustment for demographic undercounts.
JOHNSON	Venus	37,789	35,443	33,175	30,766	28,529	26,449	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
JONES	Anson	2,291	2,195	2,094	1,984	1,863	1,731	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	County-Other, Jones	7,090	6,767	6,374	5,928	5,410	4,818	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	Hamby WSC	206	188	168	146	120	88	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	Hamlin	1,544	1,350	1,182	1,039	926	837	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	Hawley WSC	4,536	4,555	4,573	4,593	4,612	4,631	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	S U N WSC	983	1,157	1,347	1,558	1,824	2,174	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	Stamford	2,846	2,628	2,391	2,135	1,841	1,490	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
KENT	County-Other, Kent	245	247	242	252	264	277	Based on requested adjustment for demographic undercounts.
KENT	Jayton	492	493	509	524	541	559	Based on requested adjustment for demographic undercounts.
KNOX	Benjamin	186	183	169	157	141	125	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
KNOX	County-Other, Knox	900	871	815	764	696	601	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
KNOX	Knox City	1,004	999	996	991	986	984	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
KNOX	Munday	1,162	1,178	1,199	1,210	1,239	1,292	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
KNOX	Red River Authority of Texas	56	55	49	45	40	33	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LAMPASAS	Copperas Cove	1,429	2,378	3,705	5,709	8,427	11,160	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
LAMPASAS	Corix Utilities Texas Inc	7,252	7,514	7,550	7,463	7,365	7,256	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
LAMPASAS	County-Other, Lampasas	740	764	768	761	749	739	Based on requested adjustment for demographic undercounts.
LAMPASAS	Kempner WSC	11,983	12,415	12,471	12,328	12,166	11,981	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
LAMPASAS	Lampasas	8,600	9,500	10,495	11,593	12,806	14,146	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
LAMPASAS	Multi County WSC	45	49	48	47	47	45	Based on requested adjustment for demographic undercounts.
LEE	Aqua WSC	1,640	1,702	1,769	1,837	1,908	1,982	Based on requested adjustment for demographic undercounts.
LEE	County-Other, Lee	2,717	2,696	2,531	2,342	2,137	1,915	Based on requested adjustment for demographic undercounts.
LEE	Giddings	5,497	5,576	5,497	5,394	5,279	5,149	Based on requested adjustment for demographic undercounts.
LEE	Lee County WSC	6,918	7,020	6,916	6,783	6,634	6,464	Based on requested adjustment for demographic undercounts.
LEE	Lexington	1,951	1,979	1,950	1,912	1,869	1,823	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
LEE	Southwest Milam WSC	515	544	575	609	643	680	Based on requested adjustment for demographic undercounts.
LIMESTONE	Birome WSC	91	90	85	82	79	76	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Bistone Municipal Water Supply District	522	507	487	467	445	424	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
LIMESTONE	Coolidge	736	714	685	658	627	597	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	County-Other, Limestone	2,782	2,712	2,619	2,534	2,446	2,352	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Groesbeck	3,225	3,147	3,047	2,952	2,859	2,761	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Mexia	6,936	6,746	6,495	6,262	6,017	5,762	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Point Enterprise WSC	469	455	435	418	400	380	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Post Oak SUD	129	124	120	115	109	105	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Prairie Hill WSC	690	670	641	615	589	560	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	SLC WSC	1,000	968	929	893	854	811	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Tri County SUD	3,515	3,411	3,271	3,140	3,004	2,857	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	White Rock Water SUD	2,012	1,953	1,872	1,799	1,719	1,635	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MCLENNAN	Axtell WSC	1,775	2,025	2,275	2,525	2,775	3,025	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Bellmead	11,152	11,534	11,869	12,109	12,397	12,735	Based on requested adjustment for demographic undercounts.
MCLENNAN	Birome WSC	543	608	666	730	801	880	Based on requested adjustment for demographic undercounts.
MCLENNAN	Bold Springs WSC	1,722	1,815	1,894	1,968	2,051	2,146	Based on requested adjustment for demographic undercounts.
MCLENNAN	Bruceville Eddy	5,343	5,387	5,750	6,138	6,551	6,869	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Central Bosque WSC	836	866	891	909	932	959	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
MCLENNAN	Chalk Bluff WSC	3,608	4,108	4,608	5,108	5,608	6,108	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Childress Creek WSC	43	57	69	84	100	120	Based on requested adjustment for demographic undercounts.
MCLENNAN	Coryell City Water Supply District	1,050	1,093	1,129	1,160	1,194	1,234	Based on requested adjustment for demographic undercounts.
MCLENNAN	County-Other, Mclennan	4,917	6,706	7,078	7,231	7,578	8,366	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Crawford	870	989	1,090	1,206	1,336	1,480	Based on requested adjustment for demographic undercounts.
MCLENNAN	Cross Country WSC	3,029	3,453	3,814	4,228	4,691	5,206	Based on requested adjustment for demographic undercounts.
MCLENNAN	East Crawford WSC	985	1,038	1,084	1,126	1,175	1,230	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Elm Creek WSC	1,415	1,491	1,576	1,680	1,788	1,900	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Eol WSC	1,873	2,048	2,223	2,398	2,573	2,748	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Gholson WSC	3,435	3,958	4,403	4,921	5,496	6,136	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	H and H WSC	1,475	1,521	1,560	1,585	1,615	1,651	Based on requested adjustment for demographic undercounts.
MCLENNAN	Hewitt	17,127	17,127	17,127	17,127	17,127	17,127	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Highland Park WSC	165	169	172	174	176	178	Based on requested adjustment for demographic undercounts.
MCLENNAN	Hilltop WSC	765	792	815	832	852	876	Based on requested adjustment for demographic undercounts.
MCLENNAN	Hog Creek WSC	297	300	303	300	299	298	Based on requested adjustment for demographic undercounts.
MCLENNAN	Lacy Lakeview	7,585	8,166	8,667	9,183	9,766	10,423	Based on requested adjustment for demographic undercounts.
MCLENNAN	Leroy Tours Gerald WSC	1,557	1,658	1,761	1,863	1,962	1,972	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
MCLENNAN	Levi WSC	1,800	1,887	1,961	2,026	2,102	2,189	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Lorena	2,863	3,004	3,126	3,236	3,361	3,506	Based on requested adjustment for demographic undercounts.
MCLENNAN	Mart	1,798	1,693	1,606	1,461	1,306	1,139	Based on requested adjustment for demographic undercounts.
MCLENNAN	McGregor	9,961	10,520	11,005	11,458	11,977	12,573	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	McLennan County WCID 2	1,185	1,095	1,020	902	777	638	Based on requested adjustment for demographic undercounts.
MCLENNAN	Moody	1,868	2,118	2,368	2,618	2,868	3,118	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	North Bosque WSC	2,075	2,327	2,609	2,925	3,279	3,677	Based on requested adjustment for demographic undercounts.
MCLENNAN	Prairie Hill WSC	694	808	903	1,017	1,142	1,280	Based on requested adjustment for demographic undercounts.
MCLENNAN	Riesel	1,231	1,314	1,398	1,482	1,565	1,649	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Robinson	13,570	15,486	17,672	20,168	23,017	26,268	Based on requested adjustment for demographic undercounts.
MCLENNAN	Ross WSC	2,473	2,733	2,955	3,199	3,475	3,781	Based on requested adjustment for demographic undercounts.
MCLENNAN	Spring Valley WSC	2,505	2,853	3,150	3,492	3,872	4,296	Based on requested adjustment for demographic undercounts.
MCLENNAN	Texas State Technical College	1,000	1,000	1,000	1,000	1,000	1,000	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Valley Mills	20	16	13	10	8	6	Based on requested adjustment for demographic undercounts.
MCLENNAN	Waco	156,758	171,499	184,144	197,795	213,102	230,264	Based on requested adjustment for demographic undercounts.
MCLENNAN	West	3,858	3,983	4,112	4,245	4,383	4,525	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	West Brazos WSC	1,520	1,679	1,815	1,963	2,130	2,317	Based on requested adjustment for demographic undercounts.
MCLENNAN	Windsor Water	647	680	715	751	789	830	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
MCLENNAN	Woodway	10,240	10,240	10,240	10,240	10,240	10,240	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MILAM	Bell Milam Falls WSC	1,426	1,402	1,351	1,304	1,253	1,201	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MILAM	Cameron	5,320	5,237	5,060	4,898	4,728	4,552	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MILAM	County-Other, Milam	7,187	47,187	77,187	122,187	122,187	122,187	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MILAM	Milano WSC	1,491	1,466	1,413	1,363	1,312	1,256	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MILAM	North Milam WSC	976	959	923	891	858	820	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MILAM	Rockdale	7,428	7,480	7,533	7,586	7,639	7,693	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MILAM	Salem Elm Ridge WSC	878	863	831	803	773	743	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MILAM	Southwest Milam WSC	5,588	5,493	5,297	5,114	4,922	4,721	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
MILAM	Thorndale	1,775	1,888	2,008	2,136	2,272	2,417	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
NOLAN	County-Other, Nolan	1,218	1,110	957	791	586	327	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
NOLAN	Roscoe	1,092	1,060	1,026	1,001	985	982	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
NOLAN	Sweetwater	11,590	11,502	11,345	11,157	10,962	10,768	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
NOLAN	The Bitter Creek WSC	964	1,038	1,127	1,211	1,315	1,445	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
PALO PINTO	County-Other, Palo Pinto	3,089	3,093	3,061	3,043	3,027	3,007	Based on requested adjustment for demographic undercounts.
PALO PINTO	Double Diamond Utilities	945	947	937	932	926	921	Based on requested adjustment for demographic undercounts.
PALO PINTO	Gordon	653	653	646	644	640	635	Based on requested adjustment for demographic undercounts.
PALO PINTO	Lake Palo Pinto Area WSC	1,061	1,061	1,051	1,045	1,039	1,031	Based on requested adjustment for demographic undercounts.
PALO PINTO	Mineral Wells	16,926	17,863	18,795	19,737	19,737	19,737	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
PALO PINTO	North Rural WSC	1,654	1,656	1,639	1,630	1,620	1,609	Based on requested adjustment for demographic undercounts.
PALO PINTO	Palo Pinto WSC	748	750	746	745	742	741	Based on requested adjustment for demographic undercounts.
PALO PINTO	Possum Kingdom WSC	1,401	1,402	1,387	1,380	1,371	1,362	Based on requested adjustment for demographic undercounts.
PALO PINTO	Santo SUD	1,995	1,996	1,977	1,965	1,953	1,939	Based on requested adjustment for demographic undercounts.
PALO PINTO	Sportsmans World MUD	76	76	75	75	74	74	Based on requested adjustment for demographic undercounts.
PALO PINTO	Strawn	547	548	542	539	536	532	Based on requested adjustment for demographic undercounts.
PALO PINTO	Sturdivant Progress WSC	2,285	2,288	2,264	2,251	2,237	2,222	Based on requested adjustment for demographic undercounts.
ROBERTSON	Bremond	781	762	738	709	679	647	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ROBERTSON	Calvert	1,042	1,016	983	942	899	856	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
ROBERTSON	County-Other, Robertson	1,926	1,769	1,584	1,382	1,174	954	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
ROBERTSON	Franklin	1,959	1,913	1,857	1,786	1,715	1,640	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
ROBERTSON	Hearne	5,253	5,114	4,946	4,740	4,524	4,295	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ROBERTSON	Robertson County WSC	3,370	3,300	3,255	3,216	3,203	3,225	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
ROBERTSON	Twin Creek WSC	922	899	869	832	795	755	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ROBERTSON	Wellborn SUD	1,808	1,761	1,702	1,632	1,558	1,480	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ROBERTSON	Wickson Creek SUD	392	382	370	355	338	322	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
SHACKELFORD	Albany	1,780	1,607	1,425	1,301	1,157	992	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
SHACKELFORD	County-Other, Shackelford	228	174	131	97	72	52	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
SHACKELFORD	Fort Griffin SUD	461	466	469	462	456	452	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
SHACKELFORD	Hamby WSC	485	525	558	568	579	597	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
SOMERVELL	County-Other, Somervell	1,407	1,455	1,474	1,463	1,450	1,436	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
SOMERVELL	Glen Rose	2,776	2,865	2,905	2,890	2,872	2,853	Based on requested adjustment for demographic undercounts.
SOMERVELL	Somervell County Water District	5,630	5,820	5,897	5,853	5,804	5,748	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
STEPHENS	Breckenridge	5,483	5,189	4,767	4,473	4,199	3,798	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	County-Other, Stephens	315	258	215	180	153	132	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
STEPHENS	Fort Belknap WSC	53	64	79	90	107	127	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	Fort Griffin SUD	521	554	600	637	549	549	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	Possum Kingdom WSC	12	6	3	2	1	1	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	Staff WSC	95	112	135	154	178	208	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	Stephens Regional SUD	2,565	2,635	2,715	2,790	2,945	3,114	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STONEWALL	Aspermont	666	627	576	540	504	468	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STONEWALL	County-Other, Stonewall	462	433	391	371	349	323	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
TAYLOR	Abilene	134,466	145,047	153,959	162,895	172,845	184,001	Based on requested adjustment for demographic undercounts.
TAYLOR	Coleman County SUD	169	179	179	179	179	179	Based on requested adjustment for demographic undercounts.
TAYLOR	County-Other, Taylor	1,516	836	461	247	129	63	Based on requested adjustment for demographic undercounts.
TAYLOR	Hamby WSC	479	588	679	789	913	1,048	Based on requested adjustment for demographic undercounts.
TAYLOR	Hawley WSC	308	342	371	404	440	480	Based on requested adjustment for demographic undercounts.
TAYLOR	Lawn	242	209	180	153	130	110	Based on requested adjustment for demographic undercounts.
TAYLOR	Merkel	2,617	2,542	2,477	2,348	2,212	2,071	Based on requested adjustment for demographic undercounts.
TAYLOR	North Runnels WSC	589	668	735	813	902	998	Based on requested adjustment for demographic undercounts.
TAYLOR	Potosi WSC	7,501	8,571	9,492	10,557	11,739	13,053	Based on requested adjustment for demographic undercounts.
TAYLOR	S U N WSC	1,349	1,344	1,340	1,312	1,283	1,254	Based on requested adjustment for demographic undercounts.
TAYLOR	Steamboat Mountain WSC	7,215	9,053	10,634	12,558	14,683	17,030	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
TAYLOR	Tye	1,016	904	807	665	511	344	Based on requested adjustment for demographic undercounts.
TAYLOR	View Caps WSC	1,963	2,115	2,245	2,380	2,532	2,703	Based on requested adjustment for demographic undercounts.
THROCKMORTON	Baylor SUD	7	6	6	5	4	4	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	County-Other, Throckmorton	154	146	138	134	125	119	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	Fort Belknap WSC	90	73	53	51	51	48	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	Fort Griffin SUD	159	153	152	143	133	124	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	Stephens Regional SUD	266	246	227	214	203	189	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	Throckmorton	617	573	537	507	478	447	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
WASHINGTON	Brenham	17,003	17,245	17,179	17,196	17,214	17,232	Based on requested adjustment for demographic undercounts.
WASHINGTON	Central Washington County WSC	3,623	3,806	3,610	3,865	4,145	4,453	Based on requested adjustment for demographic undercounts.
WASHINGTON	Chappell Hill WSC	493	495	499	491	482	472	Based on requested adjustment for demographic undercounts.
WASHINGTON	Corix Utilities Texas Inc	4,918	5,073	5,233	5,397	5,566	5,740	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WASHINGTON	County-Other, Washington	10,918	10,501	10,262	9,525	8,788	8,050	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WASHINGTON	Lee County WSC	120	128	136	145	154	164	Based on requested adjustment for demographic undercounts.
WASHINGTON	West End WSC	329	333	332	332	331	330	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Bartlett	975	988	1,001	1,018	1,034	1,052	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Bell Milam Falls WSC	353	448	559	682	818	972	Based on requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
WILLIAMSON	Block House MUD	5,749	5,555	5,370	5,190	5,017	4,848	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Brushy Creek MUD	19,423	19,423	19,423	19,421	19,421	19,421	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WILLIAMSON	Cedar Park	92,024	92,024	92,024	92,024	92,024	92,024	Based on requested adjustment for demographic undercounts.
WILLIAMSON	County-Other, Williamson	53,875	107,334	168,451	231,848	314,838	421,868	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Fern Bluff MUD	5,426	5,646	5,877	5,881	5,881	5,881	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Florence	1,416	1,520	1,638	1,773	1,921	2,085	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Georgetown	272,462	476,246	654,502	772,543	898,034	1,043,487	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WILLIAMSON	Granger	1,234	1,329	1,431	1,540	1,658	1,785	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Hutto	23,452	32,559	45,199	62,749	87,113	120,937	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Jarrell-Schwertner	26,753	35,193	45,138	56,002	68,199	81,920	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WILLIAMSON	Jonah Water SUD	30,251	43,078	58,212	74,739	93,341	114,268	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Lakeside MUD 3	17	22	28	35	44	53	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Leander	137,045	173,735	185,078	196,856	208,617	220,564	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WILLIAMSON	Liberty Hill	6,367	9,260	12,675	16,400	20,596	25,316	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Manville WSC	8,232	8,318	8,395	8,499	8,600	8,703	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Noack WSC	738	757	776	799	824	851	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Paloma Lake MUD 1	3,447	3,447	3,447	3,447	3,447	3,447	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Paloma Lake MUD 2	2,506	2,506	2,506	2,506	2,506	2,506	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Round Rock	145,880	180,164	214,132	221,167	227,537	233,092	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comment
WILLIAMSON	Sonterra MUD	19,498	30,746	44,040	58,538	74,871	93,254	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Southwest Milam WSC	1,703	2,165	2,707	3,299	3,966	4,716	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Taylor	27,500	39,552	53,155	71,435	96,003	129,020	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WILLIAMSON	Vista Oaks MUD	2,765	2,765	2,765	2,765	2,765	2,765	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Walsh Ranch MUD	824	824	824	824	824	824	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Williamson County MUD 10	3,780	3,780	3,780	3,780	3,780	3,780	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Williamson County MUD 11	5,921	8,483	11,505	14,805	18,522	22,700	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Williamson County WSID 3	4,546	6,001	7,716	9,592	11,701	14,071	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Williamson Travis Counties MUD 1	3,832	3,851	3,870	3,889	3,909	3,928	Based on requested adjustment for demographic undercounts.
YOUNG	Baylor SUD	116	116	116	115	116	117	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
YOUNG	County-Other, Young	3,410	3,436	3,487	3,514	3,546	3,583	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
YOUNG	Fort Belknap WSC	3,710	3,759	3,880	3,929	3,983	4,044	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
YOUNG	Graham	7,421	7,354	7,039	6,991	6,930	6,860	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

Comparisons of the requested revisions to the projected municipal populations for the entire region are shown in Table 134. The Brazos G RWPG is requesting an increase to the regional total from the draft projections for municipal populations in the region. For the total region, the Brazos G RWPG's requested revisions represent increases ranging from approximately 363,000 in 2030 to approximately 1.27M by 2080. These requested revisions represent a 13 – 26% increase from the TWDB's Draft 2026 total municipal population projections over the 50-year planning period.

Table 134 Comparisons of Total Regional Decadal Population Projections between the 2021 Region G Plan, 2026 Draft, and Brazos G RWPG's Requested Revisions by Magnitude and Percentage (2030 – 2080)

	2030	2040	2050	2060	2070	2080
Adopted 2021 Region G Plan	2,720,696	3,097,007	3,494,544	3,918,197	4,351,042	N/A
2026 Draft	2,703,905	3,074,453	3,481,252	3,913,803	4,400,096	4,946,811
Brazos G RWPG Request	3,067,318	3,724,264	4,343,842	4,927,409	5,525,038	6,218,847
Net Increase from 2026 Draft	363,413	649,811	862,590	1,013,606	1,124,942	1,272,036
% Increase from 2026 Draft	13%	21%	25%	26%	26%	26%
Net Increase from 2021 Plan	346,622	627,257	849,298	1,009,212	1,173,996	N/A
% Increase from 2021 Plan	13%	20%	24%	26%	27%	N/A

With the Brazos G RWPG's requested revisions applied, the total regional population projections significantly increase from the projected populations adopted for the purposes of the 2021 Region G Plan. These increases range from approximately 346,600 in 2030 (13%) to an increase of approximately 1.17M by 2070 (27%) over the comparable 2030 – 2070 planning period.

Regional Per Capita Use Analyses and Requests (Gallons per Capita Daily; GPCD)

As described in the Exhibit C Guidelines,

> "[T]he municipal water demand projections will be based upon dry-year demand conditions. The baseline GPCDs used in the 2026 RWPs will be carried over from the 2021 RWPs and used as default baseline GPCDs with water efficiency savings due to more efficient plumbing fixtures and appliances through 2020 subtracted to develop the draft water demand projections for municipal WUGs in the 2026 RWPs."

The Brazos G RWPG has performed an evaluation of historical GPCDs for WUGs within Region G over the 2010 – 2020 period. Historical GPCDs over this period were calculated using historic utility based annual WUG population estimates developed by the TWDB and annual net use amounts reported by PWSs via annual Water Use Surveys submitted to and reported by TWDB. Where spurious GPCD amounts were identified by the Brazos G RWPG's analysis, the population amounts utilized in the calculation of GPCD were modified to be consistent with the population amount(s) reported in the WUG's Water Use Surveys. The data utilized in the Brazos G RWPG's analyses of per capita usage are consistent with the third data requirement for adjustment identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.2.1, Data requirements,

Item 3). The third data requirement is, "Net annual municipal water use, defined as total water production less sales to other water users (utilities, industries, public water systems, etc.) measured in acre-feet."

The Brazos G RWPG has identified the maximum historically observed annual GPCD and evaluated trends over the ten-year (2010 – 2020) period for each Region G WUG. The results of these analyses are shown in Table 135 for each WUG. Corrections or revisions requested by WUGs are noted.

Brazos G RWPG Request

The Brazos G RWPG requests revisions to the per capita usage for the WUGs identified in Table 135 located within the Region G planning area:

1. Use of the maximum historical GPCD over the 2010 – 2020 period.

   By employing the maximum historical GPCD over the 2010 – 2020 period, the extended period captures extreme drought conditions observed in the region in the early part of the decade, while also reflecting the higher per capita usage observed for those WUGs with increasing trends in the region. Capturing the higher GPCD observed for WUGs during the drought conditions in the early part of the decade is consistent with the Exhibit C Guidelines' objective of reflecting "dry-year demand conditions". Use of the maximum to capture observed increasing trends is also consistent with the fourth criterion for adjustment identified in the Exhibit C Guidelines for WUG-level population projections (Section 2.2.2.1, Item 4). The fourth criterion states, "Trends indicating that per capita water use for a utility or rural area of a county have increased substantially in recent years, and evidence that these trends will continue to rise in the short-term future due to commercial development."

2. Removal of the subtraction of water efficiency savings due to more efficient plumbing fixtures and appliances from the baseline[6] GPCD.

   The Brazos G RWPG considers usage of the maximum observed GPCD representative of a conservative estimate of per capita usage in dry-year demand conditions and/or representative of increasing trends in per capita usage for WUGs in the region. The Brazos G RWPG requests that the baseline GPCDs *not* be reduced by subtracting estimated water efficiency savings, as they are representative of per capita usage that has been observed and derived from data reported by WUGs in the region. The Brazos G RWPG considers this a reasonable adjustment to the methodology, as it is consistent with the overall guidance principles in TAC §358.3(2) that "[t]he regional water plans and state water plan shall serve as water supply plans under drought of record conditions."

[6] Please note that this request pertains to the adjustment to the *baseline* GPCD. The Brazos G RWPG supports the application of the Draft (revised) Plumbing Code Savings for the *projections* of future municipal water demand over the 2030 – 2080 planning period – excepting WUG-specific requests for revisions recommended by the Brazos G RWPG herein.

Table 135 Identification of Historical Trends and Maximum Per Capita Usage by Region G WUG over the 2010 – 2020 period Compared to the Adopted 2021 Region G Plan and Draft 2026 TWDB Baselines, with Requested Revisions of the Brazos G RWPG (GPCD)

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
439 WSC	-2	172	124	133	172	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ABILENE	-2	183	163	172	183	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ACTON MUD	2	185	130	139	185	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ALBANY	-2	276	251	258	276	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ALVARADO	2	125	96	105	125	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ANSON	-1	139	128	137	139	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ASPERMONT	-9	331	241	250	331	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
AXTELL WSC	-2	157	108	117	157	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BAIRD	-7	196	144	153	196	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BARTLETT	-7	183	172	181	183	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BELL COUNTY WCID 1	-2,415	27,298	1,738	New WUG	338	n/a	Based on WUG-specific requests for revisions to GPCD

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
BELL COUNTY WCID 2	-4	175	122	131	175	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BELL COUNTY WCID 3	3	161	146	155	161	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BELL MILAM FALLS WSC	2	162	134	142	162	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BELLMEAD	0	120	107	115	120	2016	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BETHANY SUD	-2	127	85	93	127	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BIROME WSC	-4	137	125	135	137	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BISTONE MUNICIPAL WATER SUPPLY DISTRICT	3	419	355	364	419	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BLOCK HOUSE MUD	-2	130	118	126	130	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BOLD SPRINGS WSC	-2	135	127	135	135	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BRANDON IRENE WSC	3	249	119	128	249	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BRECKENRIDGE	-3	161	153	161	161	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BREMOND	-3	183	165	174	183	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
BRENHAM	-6	230	211	219	230	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BRUCEVILLE EDDY	5	245	166	174	245	2017	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BRUSHY CREEK MUD	-1	197	137	146	185	n/a	Based on WUG-specific requests for revisions to GPCD
BRYAN	-1	169	159	168	169	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
BURLESON	-3	143	136	143	143	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CALDWELL	-3	196	188	197	196	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CALVERT	6	235	143	152	235	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CAMERON	-3	217	207	216	217	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CEDAR PARK	-1	191	185	193	191	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CEGO-DURANGO WSC	-1	159	150	159	159	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CENTRAL BOSQUE WSC	1	161	135	143	161	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CENTRAL TEXAS COLLEGE DISTRICT	-35	328	151	160	283	2011	Revision based on year 2011 GPCD of 283, without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
CENTRAL WASHINGTON COUNTY WSC	0	123	115	123	123	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CHALK BLUFF WSC	3	147	91	99	147	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CHAPPELL HILL WSC	-2	198	138	146	198	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CHATT WSC	12	261	118	127	162	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline utilizing WUG's requested use of information from historical WUS data.
CHILDRESS CREEK WSC	2	230	139	147	230	2018	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CISCO	-5	170	159	168	170	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CLEBURNE	-4	192	164	172	192	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CLIFTON	2	201	164	173	201	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CLYDE	0	96	74	82	96	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
COLLEGE STATION	-3	177	147	155	177	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
COMANCHE	-2	113	104	113	113	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
COOLIDGE	-7	174	148	156	174	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
COPPERAS COVE	-1	119	107	116	119	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CORIX UTILITIES TEXAS INC	3	170	144	149	170	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CORYELL CITY WATER SUPPLY DISTRICT	1	163	147	154	163	2017	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CRAWFORD	-7	212	183	191	212	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CROSS COUNTRY WSC	-1	178	150	158	178	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
CROSS PLAINS	7	210	153	162	210	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
DE LEON	-2	99	85	95	99	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
DEANVILLE WSC	-3	175	116	121	175	2012	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
DOG RIDGE WSC	-3	172	125	135	172	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
DOUBLE DIAMOND UTILITIES	-43	1,023	207	215	1023	2014	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
DUBLIN	-3	105	85	94	105	2014	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
EAST BELL WSC	0	155	109	118	155	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
EAST CRAWFORD WSC	-7	409	304	312	157	n/a	Based on WUG-specific requests for revisions to GPCD
EASTLAND	-7	160	142	150	160	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ELM CREEK WSC	-1	143	96	104	143	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
EOL WSC	0	113	110	118	113	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
EULA WSC	8	85	60	60	85	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FERN BLUFF MUD	-3	194	184	190	194	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FILES VALLEY WSC	0	179	138	146	179	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FLAT WSC	-1	258	193	201	258	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FLORENCE	3	136	87	95	136	2017	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FORT BELKNAP WSC	2	124	100	107	124	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FORT GATES WSC	0	187	179	187	187	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
FORT GRIFFIN SUD	1	171	135	144	171	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
FORT HOOD	-6	215	205	215	215	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GATESVILLE	-1	246	220	229	246	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GEORGETOWN	6	189	197	205	173	n/a	Based on WUG-specific requests for revisions to GPCD
GHOLSON WSC	0	127	119	127	127	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GIDDINGS	-2	188	179	188	188	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GLEN ROSE	-3	199	192	200	199	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GODLEY	1	116	91	99	116	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GORDON	1	230	198	206	230	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GORMAN	1	109	79	88	109	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GRAHAM	-11	302	257	266	302	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GRANBURY	0	175	107	115	175	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GRANDVIEW	3	153	93	102	153	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
GRANGER	-6	145	121	130	145	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
GROESBECK	-1	167	141	149	167	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
H & H WSC	0	125	105	113	125	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HAMBY WSC	-1	116	108	116	116	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HAMILTON	3	179	154	162	179	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HAMLIN	0	187	169	178	187	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HARKER HEIGHTS	-2	178	174	182	178	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HASKELL	-3	174	140	148	174	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HAWLEY WSC	-1	109	70	78	109	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HEWITT	-9	176	157	165	176	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HICO	-1	134	117	125	134	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HIGHLAND PARK WSC	16	392	256	264	264	2011	Revision based on year 2011 GPCD of 264, without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
HILCO UNITED SERVICES	4	187	125	134	187	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HILL COUNTY WSC	1	131	121	128	131	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HILLSBORO	-3	211	192	200	211	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HILLTOP WSC	-4	143	108	116	143	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HOLLAND	0	105	89	97	105	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
HUBBARD	1	132	89	98	132	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ITASCA	0	110	79	88	110	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
JARRELL-SCHWERTNER	2	125	124	133	125	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
JAYTON	-2	180	156	164	180	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
JOHNSON COUNTY SUD	-3	123	116	124	123	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
JONAH WATER SUD	2	188	127	137	188	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
KEENE	-1	130	62	70	130	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
KEMPNER WSC	-1	176	157	164	176	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
KILLEEN	-1	125	114	122	125	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
KNOX CITY	-8	224	186	195	224	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LACY LAKEVIEW	-1	125	98	106	125	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LAKE PALO PINTO AREA WSC	1	112	95	103	112	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LAMPASAS	5	167	145	154	167	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LEANDER	4	143	124	128	124	n/a	Based on WUG-specific requests for revisions to GPCD
LEE COUNTY WSC	-1	129	114	122	129	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LEROY TOURS GERALD WSC	0	115	92	100	115	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LEVI WSC	19	238	108	114	238	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LEXINGTON	1	177	160	169	177	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LIBERTY HILL	4	111	96	106	111	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LIPAN	11	143	110	118	143	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
LITTLE ELM VALLEY WSC	-1	171	162	171	171	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
LORENA	5	171	146	154	171	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MARLIN	6	399	245	254	267	2011	Revision based on year 2011 GPCD of 267, without application of assumed plumbing code savings to baseline.
MART	1	233	133	142	233	2017	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MCGREGOR	8	238	138	146	238	2016	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MCLENNAN COUNTY WCID 2	1	172	139	147	172	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MERIDIAN	1	145	119	129	145	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MERKEL	-2	117	112	120	117	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MEXIA	-1	133	61	70	133	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MILANO WSC	4	167	102	110	167	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MINERAL WELLS	2	180	146	155	180	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MOFFAT WSC	5	167	105	113	167	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
MOODY	3	135	115	124	135	2018	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MORGANS POINT RESORT	1	135	103	111	135	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MOUNTAIN WSC	-2	157	140	149	157	2013	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MULTI COUNTY WSC	-2	93	87	95	93	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MUNDAY	-5	180	171	180	180	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
MUSTANG VALLEY WSC	-11	215	198	206	215	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
NAVASOTA	-3	183	176	184	183	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
NOACK WSC	-3	189	92	New WUG	189	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
NORTH BOSQUE WSC	-6	279	227	235	279	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
NORTH MILAM WSC	3	173	159	167	173	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
NORTH RURAL WSC	0	100	88	96	100	2017	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
PALO PINTO WSC	0	127	120	128	127	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
PALOMA LAKE MUD 1	19	179	120	125	139	n/a	Based on WUG-specific requests for revisions to GPCD
PALOMA LAKE MUD 2	2	139	107	115	139	n/a	Based on WUG-specific requests for revisions to GPCD
PARKER WSC	-1	147	96	104	147	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
PENDLETON WSC	-4	169	105	116	169	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
POST OAK SUD	10	205	67	76	205	2016	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
PRAIRIE HILL WSC	-6	183	148	157	183	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
RANGER	-8	166	162	171	166	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
RIO VISTA	1	159	124	133	159	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
RISING STAR	-1	171	103	112	171	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROBERTSON COUNTY WSC	2	143	137	142	143	2014	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROBINSON	-5	200	173	181	200	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROBY	-4	207	167	175	207	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
ROCKDALE	-4	198	175	184	198	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROGERS	2	164	118	127	164	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROSCOE	0	186	128	137	186	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROSEBUD	0	114	102	111	114	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROSS WSC	-2	140	129	135	140	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROTAN	5	165	105	114	165	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
ROUND ROCK	-2	173	144	152	139	n/a	Based on WUG-specific requests for revisions to GPCD
SALADO WSC	0	296	283	292	296	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SALEM ELM RIDGE WSC	-1	175	140	148	175	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SANTO SUD	0	125	113	121	125	2016	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SLC WSC	0	95	77	87	95	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SMITH BEND WSC	1	133	119	127	133	2014	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
SNOOK	3	318	298	307	318	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SOMERVELL COUNTY WATER DISTRICT	21	240	112	120	240	2016	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SOMERVILLE	-4	187	161	170	187	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SONTERRA MUD	4	108	68	76	108	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SOUTHWEST MILAM WSC	-2	190	144	152	190	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
SPRING VALLEY WSC	6	160	124	132	160	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
STAFF WSC	-1	257	90	99	143	2011	Revision based on year 2011 GPCD of 143, without application of assumed plumbing code savings to baseline.
STAMFORD	-7	233	228	237	233	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
STEAMBOAT MOUNTAIN WSC	1	123	77	84	123	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
STEPHENS REGIONAL SUD	11	178	99	107	178	2014	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
STEPHENVILLE	-2	136	126	134	136	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
STRAWN	2	207	173	182	207	2020	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
STURDIVANT PROGRESS WSC	2	97	83	91	97	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TAYLOR	-2	180	148	157	120	n/a	Based on WUG-specific requests for revisions to GPCD
TDCJ LUTHER UNITS	6	247	176	183	247	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TDCJ W PACK UNIT	-2	245	210	218	245	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TEMPLE	-4	227	220	229	227	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TEXAS STATE TECHNICAL COLLEGE	55	1,804	1,370	1,378	1804	2019	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
THE BITTER CREEK WSC	1	140	118	128	140	2020	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
THE GROVE WSC	17	139	133	139	139	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
THORNDALE	-2	138	117	125	138	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
THROCKMORTON	-3	216	196	205	216	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TOLAR	1	148	125	134	148	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TRI COUNTY SUD	9	116	110	119	116	2019	Based on revised population (2010-2020) from Water Use Survey Report and maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
TROY	9	181	81	90	119	n/a	Based on WUG-specific requests for revisions to GPCD
TWIN CREEK WSC	-6	223	159	167	223	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
TYE	-4	143	126	134	143	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
VALLEY MILLS	-1	179	175	184	179	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
VIEW CAPS WSC	3	150	113	118	150	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
VISTA OAKS MUD	-5	219	180	188	139	n/a	Based on WUG-specific requests for revisions to GPCD
WACO	-3	222	212	220	222	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WALSH RANCH MUD	-6	269	249	257	139	n/a	Based on WUG-specific requests for revisions to GPCD
WELLBORN SUD	-5	188	161	170	188	2012	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WEST	-1	165	152	160	165	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WEST BELL COUNTY WSC	-3	166	139	149	166	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WEST BRAZOS WSC	-4	159	129	138	159	2010	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WESTBOUND WSC	4	73	65	New WUG	73	2015	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

WUG	Trend (GPCD Per Yr)	10-year Max GPCD	Draft 2026 Baseline GPCD	2021 Region G Plan Baseline GPCD	Requested Baseline GPCD	Year of Requested Baseline GPCD	Comment
WHITE ROCK WATER SUD	2	101	92	101	101	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WICKSON CREEK SUD	5	139	92	99	139	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WILLIAMSON COUNTY MUD 10	-4	196	191	196	139	n/a	Based on WUG-specific requests for revisions to GPCD
WILLIAMSON COUNTY MUD 11	-14	301	180	185	139	n/a	Based on WUG-specific requests for revisions to GPCD
WILLIAMSON COUNTY WSID 3	9	184	118	126	184	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WILLIAMSON TRAVIS COUNTIES MUD 1	-3	141	117	126	141	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WOODROW OSCEOLA WSC	5	176	83	92	176	2020	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.
WOODWAY	-4	351	343	352	351	2011	Revision based on observed historical maximum (2010 – 2020) GPCD without application of assumed plumbing code savings to baseline.

Requested Municipal Water Demand Projections

As noted in the Exhibit C Guidelines, "any adjustment to the population projections for a WUG will require an associated adjustment to the municipal water demand projections." The requested modifications detailed previously to both the municipal population projections and the baseline per capita usage amounts (GPCD) result in revised municipal water demand projections for all the WUGs within the region.

The Brazos G RWPG acknowledges receipt of the revised draft plumbing code savings projections provided by email by the TWDB on May 5, 2023, and makes no request to modify these estimated projections of passive future savings nor their application in the estimation of the municipal water demand projections, excepting WUG-specific requests recommended by the RWPG in this document.

The requested municipal water demand projections are presented for all Region G WUGs in Table 136.

Table 136 Requested Municipal Water Demand Projections for Region G WUGs (2030 – 2080)

County	WUG	2030	2040	2050	2060	2070	2080	Comments
BELL	439 WSC	2,313	2,710	3,123	3,546	3,981	4,415	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Armstrong WSC	547	615	668	705	746	792	Based on requested adjustment for demographic undercounts.
BELL	Bartlett	133	126	122	116	110	104	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Bell County WCID 1	98	98	98	98	98	98	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
BELL	Bell County WCID 2	343	362	378	386	396	407	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Bell County WCID 3	1,659	2,033	2,620	3,207	3,344	3,481	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Bell Milam Falls WSC	399	422	441	452	464	478	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Belton	4,887	6,129	7,679	9,637	12,089	14,540	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BELL	Central Texas College District	172	171	171	171	171	171	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	County-Other, Bell	760	852	888	823	709	549	Based on requested adjustment for demographic undercounts.
BELL	Dog Ridge WSC	942	1,057	1,147	1,209	1,279	1,356	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	East Bell WSC	391	365	346	326	305	281	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Elm Creek WSC	397	422	447	470	493	516	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
BELL	Fort Hood	4,861	5,038	5,232	5,426	5,620	5,814	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Georgetown	936	1,252	1,336	1,249	1,178	1,140	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
BELL	Harker Heights	7,173	8,252	9,348	9,693	9,693	9,693	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Holland	136	138	140	142	144	146	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Jarrell-Schwertner	683	736	779	806	837	871	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Kempner WSC	489	534	570	593	619	649	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Killeen	23,409	26,702	29,783	33,208	36,579	39,951	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Little Elm Valley WSC	341	375	401	419	439	461	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Moffat WSC	376	334	298	266	237	212	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Morgans Point Resort	774	843	916	989	1,061	1,134	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Pendleton WSC	412	443	467	481	498	517	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
BELL	Rogers	164	158	154	149	143	137	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Salado WSC	2,459	2,753	3,086	3,459	3,878	4,349	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Temple	28,782	32,127	34,751	36,542	38,551	40,803	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	The Grove WSC	174	206	239	272	304	337	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BELL	Troy	494	527	562	597	632	667	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
BELL	West Bell County WSC	783	837	880	906	935	969	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Childress Creek WSC	327	318	306	295	282	269	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Clifton	772	827	890	957	1,029	1,107	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	County-Other, Bosque	894	799	681	565	438	298	Based on requested adjustment for demographic undercounts.
BOSQUE	Cross Country WSC	55	53	51	49	47	45	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Highland Park WSC	102	99	96	92	88	84	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Hilco United Services	267	286	307	330	354	380	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Hog Creek WSC	78	76	74	71	67	65	Based on requested adjustment for demographic undercounts.
BOSQUE	Meridian	276	269	258	249	239	228	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
BOSQUE	Mustang Valley WSC	433	421	405	391	374	356	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Smith Bend WSC	18	18	17	17	16	15	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BOSQUE	Valley Mills	243	247	251	256	261	265	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BRAZOS	Bryan	19,037	22,504	26,658	31,597	39,794	50,101	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BRAZOS	College Station	23,940	27,047	31,819	37,404	36,735	36,155	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BRAZOS	County-Other, Brazos	350	361	413	437	480	539	Based on requested adjustment for demographic undercounts.
BRAZOS	Texas A and M University	10,415	10,400	10,400	10,400	10,400	10,400	Based on requested adjustment for demographic undercounts.
BRAZOS	Wellborn SUD	5,744	6,526	7,718	9,195	10,853	12,715	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BRAZOS	Wickson Creek SUD	2,745	3,111	3,677	4,378	5,164	6,048	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BURLESON	Cade Lakes WSC	110	111	110	109	108	107	Based on requested adjustment for demographic undercounts.
BURLESON	Caldwell	919	923	920	915	909	903	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BURLESON	County-Other, Burleson	788	785	773	759	744	727	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
BURLESON	Deanville WSC	367	368	366	363	360	357	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BURLESON	Milano WSC	240	242	245	249	252	255	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
BURLESON	Snook	410	412	410	406	403	400	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BURLESON	Somerville	268	269	267	266	263	261	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
BURLESON	Southwest Milam WSC	165	172	181	190	200	210	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CALLAHAN	Baird	329	328	325	322	318	314	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CALLAHAN	Callahan County WSC	190	192	195	199	202	205	Based on requested adjustment for demographic undercounts.
CALLAHAN	Clyde	407	407	410	413	416	419	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CALLAHAN	Coleman County SUD	44	46	48	50	52	54	Based on requested adjustment for demographic undercounts and consistent with Region F Regional Water Planning Groups identified baseline per capita usage.
CALLAHAN	County-Other, Callahan	159	144	124	101	76	50	Based on requested adjustment for demographic undercounts.
CALLAHAN	Cross Plains	211	210	208	206	203	200	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CALLAHAN	Eula WSC	250	258	266	275	283	292	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CALLAHAN	Hamby WSC	30	31	32	33	34	35	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CALLAHAN	Potosi WSC	35	35	34	34	33	33	Based on requested adjustment for demographic undercounts.
CALLAHAN	Westbound WSC	13	13	13	13	13	13	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
COMANCHE	Comanche	522	514	505	502	499	497	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
COMANCHE	County-Other, Comanche	719	687	647	630	611	589	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
COMANCHE	De Leon	235	239	247	252	258	265	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Central Texas College District	108	107	107	107	107	107	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Copperas Cove	6,204	8,667	12,181	17,122	24,104	31,084	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Coryell City Water Supply District	888	906	917	911	906	900	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	County-Other, Coryell	401	421	413	375	330	278	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	Elm Creek WSC	75.92	76	76	76	75	73	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Flat WSC	194	198	201	199	197	196	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Fort Gates WSC	479	489	495	491	488	484	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Fort Hood	3,667	3,801	3,947	4,094	4,240	4,386	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Gatesville	4,228	4,301	4,372	4,378	4,390	4,408	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
CORYELL	Kempner WSC	938	958	969	962	955	947	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Mountain WSC	334	341	345	343	340	337	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Multi County WSC	328	334	337	335	332	330	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Mustang Valley WSC	6	6	7	6	7	6	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
CORYELL	Oglesby	40	41	41	41	40	40	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
CORYELL	The Grove WSC	25	30	35	40	44	49	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
EASTLAND	Cisco	730	742	762	769	778	791	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
EASTLAND	County-Other, Eastland	255	244	213	198	174	139	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
EASTLAND	Eastland	610	550	502	463	432	407	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
EASTLAND	Gorman	111	103	93	86	80	72	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
EASTLAND	Ranger	410	385	366	352	341	335	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
EASTLAND	Rising Star	130	122	116	111	108	106	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
EASTLAND	Staff WSC	180	195	216	227	240	256	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
EASTLAND	Westbound WSC	170	173	177	178	180	182	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ERATH	County-Other, Erath	2,475	2,671	2,915	3,203	3,526	3,890	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
ERATH	Dublin	323	288	259	225	196	171	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ERATH	Gordon	2	2	2	2	2	2	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ERATH	Stephenville	3,936	4,305	4,765	5,387	6,075	6,838	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Bell Milam Falls WSC	221	205	190	175	158	140	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Bruceville Eddy	337	444	474	506	540	610	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Cego-Durango WSC	203	232	263	289	323	372	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	County-Other, Falls	842	758	666	579	462	305	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
FALLS	East Bell WSC	20	20	20	21	22	24	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Levi WSC	103	134	166	187	209	230	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Little Elm Valley WSC	9	13	18	22	27	33	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Marlin	1,343	1,266	1,204	1,151	1,126	1,141	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	North Milam WSC	2	1	1	1	1	1	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	Rosebud	146	135	126	116	109	104	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FALLS	West Brazos WSC	133	128	123	120	120	123	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FISHER	County-Other, Fisher	100	96	94	92	91	89	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
FISHER	Roby	121	116	112	111	109	107	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FISHER	Rotan	258	248	241	238	234	230	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
FISHER	S U N WSC	2	2	2	2	2	1	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
FISHER	The Bitter Creek WSC	101	97	94	93	91	90	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
GRIMES	County-Other, Grimes	1,434	1,499	1,548	1,569	1,577	1,563	Based on requested adjustment for demographic undercounts.
GRIMES	Dobbin Plantersville WSC	332	365	394	419	448	480	Based on requested adjustment for demographic undercounts.
GRIMES	G and W WSC	155	165	174	182	191	201	Based on requested adjustment for demographic undercounts.
GRIMES	MSEC Enterprises	44	69	107	166	257	400	Based on requested adjustment for demographic undercounts.
GRIMES	Navasota	1,581	1,641	1,695	1,737	1,784	1,835	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
GRIMES	TDCJ Luther Units	319	318	318	318	318	318	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
GRIMES	TDCJ W Pack Unit	451	449	449	449	449	449	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
GRIMES	Wickson Creek SUD	719	783	837	885	940	1,001	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HAMILTON	Coryell City Water Supply District	46	47	48	48	48	48	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HAMILTON	County-Other, Hamilton	415	410	404	400	393	386	Based on requested adjustment for demographic undercounts.
HAMILTON	Hamilton	527	523	523	516	507	498	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HAMILTON	Hico	177	172	168	165	161	158	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HAMILTON	Multi County WSC	62	55	46	45	45	45	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HASKELL	County-Other, Haskell	286	279	268	264	259	254	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
HASKELL	Haskell	602	589	574	571	566	562	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Birome WSC	101	103	105	107	109	112	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Bold Springs WSC	19	19	19	20	20	21	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Brandon Irene WSC	532	546	557	568	580	594	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Chatt WSC	220	225	229	233	238	244	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
HILL	County-Other, Hill	470	481	490	499	510	521	Based on requested adjustment for demographic undercounts.
HILL	Double Diamond Utilities	1,533	1,576	1,606	1,637	1,670	1,709	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Files Valley WSC	910	934	952	970	991	1,014	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Gholson WSC	155	159	162	164	168	172	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Hilco United Services	950	976	994	1,013	1,034	1,058	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Hill County WSC	427	438	446	454	464	475	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Hillsboro	3,465	4,830	6,352	8,037	9,901	11,962	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Hubbard	211	216	220	224	229	234	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
HILL	Itasca	200	205	209	213	218	223	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Navarro Mills WSC	2	2	2	2	2	2	Based on requested adjustment for demographic undercounts.
HILL	Parker WSC	41	42	43	44	45	46	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Post Oak SUD	197	202	206	210	214	219	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Rio Vista	1	1	1	1	1	1	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HILL	Whitney	454	466	474	483	494	505	Based on requested adjustment for demographic undercounts.
HILL	Woodrow Osceola WSC	546	561	571	582	594	608	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HOOD	Acton MUD	2,320	2,511	2,728	2,963	3,218	3,495	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HOOD	County-Other, Hood	4,127	4,623	5,138	5,692	6,320	7,031	Based on requested adjustment for demographic undercounts.
HOOD	Granbury	3,178	3,601	4,041	4,522	5,062	5,670	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HOOD	Lipan	146	158	171	184	199	216	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HOOD	Santo SUD	1	1	1	1	0	0	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
HOOD	Tolar	186	214	244	276	313	354	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Acton MUD	14	13	11	10	9	8	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Alvarado	673	770	871	961	1,063	1,177	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Bethany SUD	478	526	575	619	668	722	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
JOHNSON	Bethesda WSC	7,272	8,384	9,523	10,556	11,715	13,017	Based on requested adjustment for demographic undercounts.
JOHNSON	Burleson	6,647	7,781	8,946	10,007	11,199	12,536	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Cleburne	7,557	8,743	10,147	11,776	13,666	15,860	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	County-Other, Johnson	1,310	1,330	938	659	438	344	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
JOHNSON	Crowley	26	38	50	62	75	89	Based on requested adjustment for demographic undercounts.
JOHNSON	Double Diamond Utilities	628	841	1,057	1,259	1,485	1,739	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Fort Worth	–	–	978	1,553	1,925	1,909	Based on requested adjustment for demographic undercounts.
JOHNSON	Godley	170	194	219	241	266	294	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Grandview	291	330	370	406	447	492	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Johnson County SUD	9,290	11,697	13,041	14,236	15,582	17,097	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Keene	870	912	953	986	1,022	1,064	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Mansfield	1,755	2,488	3,233	3,935	4,721	5,600	Based on requested adjustment for demographic undercounts.
JOHNSON	Mountain Peak SUD	1,461	1,813	2,252	2,799	3,477	4,321	Based on requested adjustment for demographic undercounts.
JOHNSON	Parker WSC	267	263	259	254	248	241	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Rio Vista	184	209	238	271	309	352	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JOHNSON	Venus	6,910	6,451	6,039	5,600	5,193	4,814	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
JONES	Anson	345	329	314	297	279	259	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JONES	County-Other, Jones	857	814	767	713	651	579	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	Hamby WSC	26	23	21	18	15	11	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JONES	Hamlin	315	275	241	211	188	170	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JONES	Hawley WSC	530	529	531	534	536	538	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
JONES	S U N WSC	102	119	139	161	188	224	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
JONES	Stamford	728	671	610	545	470	380	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
KENT	County-Other, Kent	29	29	28	29	31	32	Based on requested adjustment for demographic undercounts.
KENT	Jayton	97	96	100	103	106	109	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
KNOX	Benjamin	57	56	51	48	43	38	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
KNOX	County-Other, Knox	89	85	80	75	68	59	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
KNOX	Knox City	246	245	244	243	241	241	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
KNOX	Munday	228	231	235	237	242	253	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
KNOX	Red River Authority of Texas	13	13	12	11	10	8	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LAMPASAS	Copperas Cove	183	304	473	729	1,076	1,425	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LAMPASAS	Corix Utilities Texas Inc	1,343	1,387	1,393	1,377	1,359	1,339	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LAMPASAS	County-Other, Lampasas	95	98	99	98	96	95	Based on requested adjustment for demographic undercounts.
LAMPASAS	Kempner WSC	2,303	2,379	2,390	2,362	2,331	2,296	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LAMPASAS	Lampasas	1,562	1,720	1,900	2,099	2,318	2,561	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LAMPASAS	Multi County WSC	4	5	5	5	5	4	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LEE	Aqua WSC	264	273	284	295	306	318	Based on requested adjustment for demographic undercounts.
LEE	County-Other, Lee	271	267	250	232	211	189	Based on requested adjustment for demographic undercounts.
LEE	Giddings	1,129	1,141	1,124	1,103	1,080	1,053	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LEE	Lee County WSC	965	975	961	942	922	898	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LEE	Lexington	376	381	375	368	359	351	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
LEE	Southwest Milam WSC	107	113	119	126	133	141	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	Birome WSC	14	13	13	12	12	11	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	Bistone Municipal Water Supply District	243	235	226	217	207	197	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	Coolidge	140	135	130	125	119	113	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	County-Other, Limestone	251	242	234	226	218	210	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
LIMESTONE	Groesbeck	585	569	551	534	517	499	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	Mexia	1,026	997	960	926	890	852	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	Point Enterprise WSC	65	63	60	58	55	52	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and consistent with Region C Regional Water Planning Groups identified baseline per capita usage.
LIMESTONE	Post Oak SUD	29	28	27	26	24	24	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	Prairie Hill WSC	138	134	128	123	117	112	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	SLC WSC	101	97	93	89	85	81	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
LIMESTONE	Tri County SUD	442	427	409	393	376	358	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
LIMESTONE	White Rock Water SUD	217	210	201	193	185	176	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Axtell WSC	303	345	387	430	473	515	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Bellmead	1,441	1,482	1,525	1,556	1,593	1,636	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Birome WSC	81	90	99	108	119	130	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Bold Springs WSC	252	264	275	286	298	312	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Bruceville Eddy	1,438	1,446	1,544	1,648	1,759	1,844	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Central Bosque WSC	146	151	155	158	163	167	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Chalk Bluff WSC	576	653	732	812	891	971	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Childress Creek WSC	11	14	17	21	25	30	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Coryell City Water Supply District	187	194	201	206	212	219	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	County-Other, Mclennan	608	823	869	888	931	1,027	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Crawford	202	229	253	280	310	343	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
MCLENNAN	Cross Country WSC	588	669	739	819	909	1,008	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	East Crawford WSC	168	177	185	192	200	209	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
MCLENNAN	Elm Creek WSC	220	231	244	260	276	294	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Eol WSC	228	248	269	290	311	332	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Gholson WSC	472	542	603	674	752	840	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	H and H WSC	199	205	210	213	217	222	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Hewitt	3,289	3,278	3,278	3,278	3,278	3,278	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Highland Park WSC	48	49	50	50	51	52	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Hilltop WSC	118	122	126	128	131	135	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Hog Creek WSC	318	321	324	321	320	319	Based on requested adjustment for demographic undercounts.
MCLENNAN	Lacy Lakeview	1,022	1,095	1,162	1,231	1,309	1,397	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Leroy Tours Gerald WSC	193	204	217	230	242	367	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
MCLENNAN	Levi WSC	471	492	512	529	548	571	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Lorena	534	557	580	600	624	651	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Mart	460	432	409	372	333	290	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	McGregor	2,602	2,741	2,867	2,985	3,121	3,276	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	McLennan County WCID 2	222	204	190	168	145	119	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Moody	273	308	344	380	417	453	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	North Bosque WSC	638	714	801	898	1,006	1,129	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Prairie Hill WSC	139	161	180	203	228	255	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Riesel	156	165	175	186	196	207	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Robinson	2,970	3,380	3,857	4,401	5,023	5,733	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Ross WSC	375	412	446	482	524	570	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Spring Valley WSC	436	496	547	607	673	746	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Texas State Technical College	2,016	2,015	2,015	2,015	2,015	2,015	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
MCLENNAN	Valley Mills	4	3	3	2	2	1	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Waco	38,126	41,590	44,657	47,967	51,680	55,842	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	West	692	712	735	759	783	809	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	West Brazos WSC	263	290	313	339	368	400	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MCLENNAN	Windsor Water	104	109	114	120	126	133	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MCLENNAN	Woodway	3,973	3,967	3,967	3,967	3,967	3,967	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	Bell Milam Falls WSC	251	246	237	229	220	211	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	Cameron	1,265	1,242	1,200	1,161	1,121	1,079	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	County-Other, Milam	853	5,575	9,120	14,437	14,437	14,437	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
MILAM	Milano WSC	271	266	256	247	238	228	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	North Milam WSC	184	180	173	167	161	154	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	Rockdale	1,609	1,616	1,627	1,639	1,650	1,662	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
MILAM	Salem Elm Ridge WSC	168	164	158	153	147	142	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	Southwest Milam WSC	1,161	1,137	1,097	1,059	1,019	978	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
MILAM	Thorndale	265	280	298	317	338	359	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
NOLAN	County-Other, Nolan	135	122	105	87	64	36	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
NOLAN	Roscoe	222	214	207	202	199	198	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
NOLAN	Sweetwater	1,808	1,786	1,762	1,733	1,703	1,672	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
NOLAN	The Bitter Creek WSC	146	157	170	183	198	218	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	County-Other, Palo Pinto	272	271	268	266	265	263	Based on requested adjustment for demographic undercounts.
PALO PINTO	Double Diamond Utilities	1,079	1,081	1,069	1,064	1,057	1,051	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Gordon	164	164	162	162	161	159	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Lake Palo Pinto Area WSC	128	127	126	125	124	123	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Mineral Wells	3,321	3,493	3,675	3,860	3,860	3,860	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
PALO PINTO	North Rural WSC	177	176	174	173	172	171	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Palo Pinto WSC	102	102	101	101	101	101	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Possum Kingdom WSC	594	594	587	584	581	577	Based on requested adjustment for demographic undercounts.
PALO PINTO	Santo SUD	269	268	265	264	262	260	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Sportsmans World MUD	75	75	74	74	73	73	Based on requested adjustment for demographic undercounts.
PALO PINTO	Strawn	124	124	122	122	121	120	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
PALO PINTO	Sturdivant Progress WSC	237	236	234	232	231	229	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ROBERTSON	Bremond	156	152	147	141	135	129	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ROBERTSON	Calvert	269	261	253	242	231	220	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ROBERTSON	County-Other, Robertson	210	192	172	150	127	103	Based on requested 0.5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
ROBERTSON	Franklin	281	274	266	255	245	235	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ROBERTSON	Hearne	867	841	813	779	744	706	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
ROBERTSON	Robertson County WSC	522	508	501	495	493	497	Based on requested 0 5-migration scenario and WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
ROBERTSON	Twin Creek WSC	225	219	212	203	194	184	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ROBERTSON	Wellborn SUD	373	362	350	336	321	305	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
ROBERTSON	Wickson Creek SUD	59	57	56	53	51	48	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
SHACKELFORD	Albany	541	487	432	394	351	301	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
SHACKELFORD	County-Other, Shackelford	22	16	12	9	7	5	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
SHACKELFORD	Fort Griffin SUD	86	86	87	86	85	84	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
SHACKELFORD	Hamby WSC	60	65	69	70	72	74	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
SOMERVELL	County-Other, Somervell	166	171	173	172	171	169	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
SOMERVELL	Glen Rose	603	621	629	626	622	618	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
SOMERVELL	Somervell County Water District	1,487	1,534	1,554	1,542	1,529	1,515	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
STEPHENS	Breckenridge	960	905	831	780	732	662	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
STEPHENS	County-Other, Stephens	32	26	22	18	15	13	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	Fort Belknap WSC	7	9	11	12	14	17	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
STEPHENS	Fort Griffin SUD	97	103	111	118	102	102	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
STEPHENS	Possum Kingdom WSC	5	3	1	1	0	0	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
STEPHENS	Staff WSC	15	17	21	24	28	32	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
STEPHENS	Stephens Regional SUD	498	510	525	540	569	602	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
STONEWALL	Aspermont	243	228	210	197	184	170	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
STONEWALL	County-Other, Stonewall	53	49	44	42	40	37	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
TAYLOR	Abilene	26,848	28,860	30,633	32,411	34,391	36,611	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
TAYLOR	Coleman County SUD	44	46	46	46	46	46	Based on requested adjustment for demographic undercounts and consistent with Region F Regional Water Planning Groups identified baseline per capita usage.
TAYLOR	County-Other, Taylor	165	90	50	27	14	7	Based on requested adjustment for demographic undercounts.
TAYLOR	Hamby WSC	60	73	84	98	113	130	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
TAYLOR	Hawley WSC	36	40	43	47	51	56	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
TAYLOR	Lawn	47	40	35	30	25	21	Based on requested adjustment for demographic undercounts.
TAYLOR	Merkel	329	318	310	293	276	259	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
TAYLOR	North Runnels WSC	69	78	86	95	105	116	Based on requested adjustment for demographic undercounts and consistent with Region F Regional Water Planning Groups identified baseline per capita usage.
TAYLOR	Potosi WSC	1,129	1,284	1,422	1,582	1,759	1,956	Based on requested adjustment for demographic undercounts.
TAYLOR	S U N WSC	140	138	138	135	132	129	Based on requested adjustment for demographic undercounts.
TAYLOR	Steamboat Mountain WSC	960	1,200	1,410	1,665	1,947	2,258	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
TAYLOR	Tye	157	138	124	102	78	53	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
TAYLOR	View Caps WSC	319	342	363	385	410	437	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
THROCKMORTON	Baylor SUD	2	1	1	1	1	1	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	County-Other, Throckmorton	14	13	12	12	11	11	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
THROCKMORTON	Fort Belknap WSC	12	10	7	7	7	6	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
THROCKMORTON	Fort Griffin SUD	30	28	28	27	25	23	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
THROCKMORTON	Stephens Regional SUD	52	48	44	41	39	37	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
THROCKMORTON	Throckmorton	146	135	127	119	113	105	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
WASHINGTON	Brenham	4,284	4,332	4,315	4,319	4,324	4,328	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WASHINGTON	Central Washington County WSC	480	502	476	510	547	588	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WASHINGTON	Chappell Hill WSC	107	107	108	106	104	102	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WASHINGTON	Corix Utilities Texas Inc	911	936	966	996	1,027	1,059	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WASHINGTON	County-Other, Washington	1,362	1,302	1,272	1,181	1,090	998	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts.
WASHINGTON	Lee County WSC	17	18	19	20	21	23	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WASHINGTON	West End WSC	34	35	34	34	34	34	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Bartlett	195	197	199	203	206	210	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Bell Milam Falls WSC	62	79	98	120	144	171	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Block House MUD	808	777	751	726	702	678	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Brushy Creek MUD	3,927	3,913	3,913	3,913	3,913	3,913	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Cedar Park	19,246	19,186	19,186	19,186	19,186	19,186	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	County-Other, Williamson	8,194	16,294	25,571	35,195	47,793	64,040	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Fern Bluff MUD	1,152	1,195	1,244	1,245	1,245	1,245	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
WILLIAMSON	Florence	208	222	240	259	281	305	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Georgetown	52,799	90,689	121,701	140,188	158,937	181,173	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Granger	194	208	224	241	259	279	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Hutto	2,703	3,731	5,180	7,191	9,983	13,860	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Jarrell-Schwertner	3,611	4,729	6,066	7,526	9,165	11,009	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Jonah Water SUD	6,238	8,863	11,977	15,377	19,205	23,510	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Lakeside MUD 3	2	3	4	5	6	7	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Leander	19,035	24,131	25,707	27,343	28,976	30,636	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Liberty Hill	763	1,105	1,513	1,957	2,458	3,021	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Manville WSC	1,248	1,255	1,266	1,282	1,297	1,313	Based on requested adjustment for demographic undercounts.
WILLIAMSON	Noack WSC	152	156	160	165	170	175	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Paloma Lake MUD 1	537	537	537	537	537	537	Based on requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Paloma Lake MUD 2	390	390	390	390	390	390	Based on requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Round Rock	22,714	28,052	33,340	34,436	35,428	36,292	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.

County	WUG	2030	2040	2050	2060	2070	2080	Comments
WILLIAMSON	Sonterra MUD	2,294	3,607	5,166	6,867	8,783	10,940	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Southwest Milam WSC	354	448	561	683	821	977	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Taylor	3,696	5,316	7,145	9,602	12,904	17,343	Based on WUG-specific requests for revisions to population and requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Vista Oaks MUD	431	431	431	431	431	431	Based on requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Walsh Ranch MUD	128	128	128	128	128	128	Based on requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Williamson County MUD 10	589	589	589	589	589	589	Based on requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Williamson County MUD 11	922	1,321	1,791	2,305	2,884	3,534	Based on requested adjustment for demographic undercounts and based on WUG-specific requests for revisions to GPCD.
WILLIAMSON	Williamson County WSID 3	912	1,200	1,543	1,918	2,339	2,813	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
WILLIAMSON	Williamson Travis Counties MUD 1	584	585	588	591	594	597	Based on requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
YOUNG	Baylor SUD	25	25	25	25	25	25	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
YOUNG	County-Other, Young	401	401	407	410	414	418	Based on requested 0.5-migration scenario and requested adjustment for demographic undercounts.
YOUNG	Fort Belknap WSC	496	500	516	523	530	538	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.
YOUNG	Graham	2,470	2,442	2,338	2,322	2,302	2,278	Based on requested 0 5-migration scenario and requested adjustment for demographic undercounts and based on requested modification to baseline GPCD.

Comparisons of the Brazos G RWPG's requested revisions to the municipal water demand projections for the total region are shown in Table 137. The Brazos G RWPG is requesting an increase in the regional total municipal water demand. The Brazos G RWPG's requested revisions represent increases from the Draft 2026 demand projections ranging from approximately 104,000 ac-ft/yr in 2030 to 248,000 ac-ft/yr by 2080. These represent increases ranging from approximately 23% to 30% over the Draft 2026 municipal water demand projections over the 50-year planning period.

Table 137 Comparisons of Total Requested Municipal Water Demand Projections for Region G, ac-ft/yr (2030 – 2080)

	2030	2040	2050	2060	2070	2080
Adopted 2021 Region G Plan	455,217	510,229	571,256	638,046	707,782	N/A
2026 Draft	458,329	517,539	584,583	655,590	735,585	825,087
BRAZOS G RWPG Request	562,157	671,454	774,628	867,750	962,647	1,073,290
Net Increase from 2026 Draft	103,828	153,915	190,045	212,160	227,062	248,203
% Increase from 2026 Draft	22.7%	29.7%	32.5%	32.4%	30.9%	30.1%
Net Increase from 2021 Plan	106,940	161,225	203,372	229,704	254,865	N/A
% Increase from 2021 Plan	23.5%	31.6%	35.6%	36.0%	36.0%	N/A

The Brazos G RWPG's requested revisions for the total regional municipal demand represent an increase from the projected 2030 – 2070 municipal water demands adopted for the purposes of the 2021 Region G Plan. These changes from the 2021 Region G Plan range from an increase of approximately 107,000 ac-ft/yr in 2030 (23.5%) to an increase of approximately 255,000 ac-ft/yr by 2070 (36%) over the comparable 2030 – 2070 planning period.

The near-term increases are largely driven by those requests coming from WUGs in rapidly urbanizing areas of Region G, where new developments and significant increases in population have been identified and reported by WUGs and WWPs through WUS reporting and local planning studies. This, combined with the Brazos G RWPG's requested adjustments for mixed migration scenarios, adjustments addressing the demographic undercount, and requested increases in per capita use based on maximums observed for WUGs over the 2010-2022 period, result in greater projected municipal water demands than those identified in the Draft 2026 municipal projections.

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July 7, 2023

Mr. Jeff Walker
Executive Administrator
Texas Water Development Board
1700 N. Congress Ave.
Austin, TX 78711-3231

Subject: Brazos G – Proposed Revision Request to Draft 2026 Non-Municipal Projections

Dear Mr. Walker:

The Draft 2026 Region G Water Plan non-municipal projections prepared by the Texas Water Development Board (TWDB) have been reviewed by the Brazos G Regional Water Planning Group (Brazos G, RWPG) and its technical consultants. Attached are the required spreadsheets, documenting the proposed modifications to these projections, as well as the supporting documentation as required under the Texas Water Code.

Upon review of the Draft 2026 non-municipal projections, the technical consultant presented recommendations for modifications to these draft projections for the consideration of the RWPG. Consideration was given to each of the non-municipal water use categories utilized for regional water planning: irrigation, livestock, manufacturing, mining, and steam-electric power generation. A summary of the rationale for the recommended revisions for each category is attached.

Upon receipt of these recommendations, and review and presentation from the consulting team to the RWPG, at its' March 8, 2023 meeting the Brazos G RWPG formally provided unanimous approval authorizing the consultants to populate and distribute to the TWDB the attached recommended demand adjustments consistent with the information provided in this meeting by the consultant, and approved for the consultant to work with the Chair to submit further revisions and make responses to revision requests by TWDB.

If any additional information is necessary, please feel free to give me a call at your convenience, and we will respond as appropriate.

Sincerely,

CAROLLO ENGINEERS, INC.

Tony L. Smith, P.E.
Project Manager

tls

Enclosures: RegionG_IrrMin_Aug2022.xlsx;
May2023_RegionG_IrrUpdate.xlsx
RegionG_Non-Municipal_Jan2022.xlsx

cc: Mr. Wayne Wilson
Ms. Pamela Hanneman

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Brazos G Supporting Analyses

The rationale and supporting analyses for the Brazos G RWPG's recommended revisions to the Draft Non-Municipal Projections are provided by use category herein. These recommendations ascribe to the contractually required criteria for adjustment identified within the *First Amended General Guidelines for Development of the 2026 Regional Water Plans (October 2022)*, referred to hereafter as the *Exhibit C Guidelines.* The Texas Administrative Code is referred to herein as TAC, for brevity. All amounts documented herein are in acre-feet, unless otherwise noted.

Irrigation

As reported within the Exhibit C Guidelines, the baseline methodology for the development of the draft irrigation water demand projections is the average of the most recent five-years (2015-2019) of water use estimates held constant between 2030 and 2080. In counties where the total groundwater availability over the planning period is projected to be less than the groundwater-portion of the baseline water demand projections, the draft irrigation water demand projections will begin to decline starting in 2040, or a later decade, commensurate with the decline in the associated groundwater availability. The Brazos G RWPG confirms receipt of the updated Draft irrigation projections provided by TWDB on May 15, 2023, and have incorporated those revised Draft amounts into the below analysis.

The second criterion for adjustment identified in the Exhibit C Guidelines for irrigation water demand projections (Section 2.2.2.5, Item 2) is, "[e]vidence that recent (10 years or less) irrigation trends are more indicative of future trends than the draft water demand projections." Water demand is further defined within TAC §357.10 (39) as the, "Volume of water required to carry out the anticipated domestic, public, and/or economic activities of a Water User Group during drought conditions."

Presented in Table 1 below is a comparative analysis of the 2015-2019 draft baseline average to an extended 10-year average over the 2010-2019 period performed by the Brazos G RWPG. These extended irrigation water use data were provided by TWDB. It is observed that for numerous counties there was increased water use in the years preceding 2015, predominantly driven by severe drought in the 2010 – 2012 period.

The Brazos G RWPG agrees that the use of an average is appropriate to capture varying trends in irrigation water use. However, to have a more conservative estimate of projected water demand for irrigation uses representative of drought conditions, the Brazos G RWPG recommends utilizing the average over the extended 10-year period (2010-2019) for the identified counties in Table 2. For these counties, use of the extended 10-year period captures higher historical usage during drought conditions. The Brazos G RWPG further supports any necessary adjustment in projections for those counties where total groundwater availability over the planning period is projected to be less than the groundwater portion of the baseline water demand projections.

No change from the draft recommended irrigation projections is recommended for those counties in the Brazos G region where use of the extended 10-year period would result in a decreased baseline amount, as the increased use in the more recent 5-year period for these counties reflects a more conservative estimation of recent trends in water demand for irrigation use.

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Table 1 – Comparison of 5- and 10-year Averages of Historical Irrigation Water Use by County (2010-2019)

	Estimated Historical Irrigation Water Use by County (Source: TWDB)										Average		Difference between Averages	
County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	(over 2015-2019)	(over 2010-2019)	Diff.	%
BELL	2,860	3,132	2,709	2,909	2,605	1,841	2,833	3,470	4,181	3,214	3,108	2,975	-133	-4%
BOSQUE	3,294	3,500	4,605	3,123	3,365	2,237	1,704	2,619	2,977	2,521	2,412	2,995	583	24%
BRAZOS	35,541	42,402	37,315	46,980	33,978	18,294	32,912	36,870	41,835	32,057	32,394	35,818	3,424	11%
BURLESON	27,099	29,595	30,819	27,393	19,116	12,662	15,902	21,464	22,433	14,700	17,432	22,118	4,686	27%
CALLAHAN	649	1,400	769	540	545	282	223	244	261	308	264	522	258	98%
COMANCHE	25,201	36,030	38,603	31,443	29,309	21,186	23,473	27,626	29,400	29,684	26,274	29,196	2,922	11%
CORYELL	415	145	516	259	215	361	218	364	367	403	343	326	-17	-5%
EASTLAND	4,556	5,770	4,699	4,886	5,244	3,261	3,162	3,728	4,444	4,180	3,755	4,393	638	17%
ERATH	5,438	8,038	7,463	6,792	7,401	6,138	6,390	7,132	7,550	7,504	6,943	6,985	42	1%
FALLS	6,847	6,962	6,948	9,018	7,465	5,792	5,458	7,073	8,585	7,810	6,944	7,196	252	4%
FISHER	4,393	5,462	5,290	3,704	4,552	3,571	2,965	3,543	4,722	4,685	3,897	4,289	392	10%
GRIMES	275	1,134	709	675	546	345	376	399	1,971	443	707	687	-20	-3%
HAMILTON	661	433	848	590	936	394	909	1,288	1,905	1,246	1,148	921	-227	-20%
HASKELL	35,958	83,904	62,485	45,859	62,988	39,275	40,872	45,057	39,051	42,101	41,271	49,755	8,484	21%
HILL	750	1,835	2,391	1,651	2,124	1,464	946	1,053	825	704	998	1,374	376	38%
HOOD	8,175	11,313	8,995	8,102	8,661	7,199	6,291	7,599	6,275	5,386	6,550	7,800	1,250	19%
JOHNSON	399	318	914	663	534	525	552	612	593	305	517	542	25	5%
JONES	1,426	3,674	3,873	2,588	2,585	2,524	2,464	2,261	3,207	2,415	2,574	2,702	128	5%
KENT	900	926	1,728	966	884	630	758	756	865	861	774	927	153	20%
KNOX	29,146	66,335	50,316	29,553	44,560	28,967	28,460	34,970	28,631	29,368	30,079	37,031	6,952	23%
LAMPASAS	550	531	408	689	510	384	660	195	734	544	503	521	18	4%
LEE	1,575	1,609	1,017	837	804	519	519	692	674	1,142	709	939	230	32%
LIMESTONE	0	18	0	0	11	7	0	0	9	23	8	7	-1	-13%
MCLENNAN	4,121	6,753	5,184	3,659	5,095	4,901	4,287	5,034	8,212	3,176	5,122	5,042	-80	-2%

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	Estimated Historical Irrigation Water Use by County (Source: TWDB)										Average		Difference between Averages	
County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	(over 2015-2019)	(over 2010-2019)	Diff.	%
MILAM	3,494	6,623	9,290	6,700	6,405	5,265	4,414	5,516	5,368	5,045	5,122	5,812	690	13%
NOLAN	8,122	12,243	12,551	12,492	12,412	11,043	12,238	14,076	14,120	13,263	12,948	12,256	-692	-5%
PALO PINTO	5,300	3,965	2,435	2,363	991	1,150	1,138	2,605	948	780	1,324	2,168	844	64%
ROBERTSON	79,613	97,850	64,074	88,426	65,948	46,157	63,816	76,248	89,733	60,852	67,361	73,272	5,911	9%
SHACKELFORD	75	398	350	213	212	152	145	117	117	163	139	194	55	40%
SOMERVELL	225	679	526	388	234	115	420	450	170	140	259	335	76	29%
STEPHENS	133	187	169	120	151	135	103	156	162	209	153	153	0	0%
STONEWALL	100	140	110	85	93	71	89	89	89	79	83	95	12	14%
TAYLOR	762	2,245	1,608	1,935	1,626	1,562	1,533	875	1,065	1,046	1,216	1,426	210	17%
THROCKMORTON	0	0	350	50	70	45	40	50	50	50	47	71	24	51%
WASHINGTON	300	509	287	250	200	167	200	200	200	200	193	251	58	30%
WILLIAMSON	401	376	390	278	221	263	521	563	285	364	399	366	-33	-8%
YOUNG	0	37	658	648	628	617	644	654	657	669	648	521	-127	-20%

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Table 2 – Recommended Revisions to Projected Draft Irrigation Water Demands for Counties in the Brazos G Region (2030-2080)

	RWPG Revision Requests						
County	2030	2040	2050	2060	2070	2080	Comment
BELL							No revision recommended.
BOSQUE	2,995	2,995	2,995	2,995	2,995	2,995	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
BRAZOS	35,818	35,818	35,818	35,818	35,818	35,818	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
BURLESON	22,118	22,118	22,118	22,118	22,118	22,118	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
CALLAHAN	522	522	522	522	522	522	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
EASTLAND	4,393	4,393	4,393	4,393	4,393	4,393	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
ERATH	6,985	6,985	6,985	6,985	6,985	6,985	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
FISHER	4,289	4,289	4,289	4,289	4,289	4,289	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
HASKELL	49,755	49,755	49,755	49,755	49,755	49,755	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
HILL	1,374	1,374	1,374	1,374	1,374	1,374	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
HOOD	7,800	7,800	7,800	7,800	7,800	7,800	Recommended as a more conservative estimate based

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	RWPG Revision Requests						
County	2030	2040	2050	2060	2070	2080	Comment
							on greater average use over 2010-2019 period.
JOHNSON	542	542	542	542	542	542	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
JONES	2,702	2,702	2,702	2,702	2,702	2,702	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
KENT	927	927	927	927	927	927	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
KNOX	37,031	37,031	37,031	37,031	37,031	37,031	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
LAMPASAS	521	521	521	521	521	521	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
LEE	939	939	939	939	939	939	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
MILAM	5,812	5,812	5,812	5,812	5,812	5,812	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
PALO PINTO	2,168	2,168	2,168	2,168	2,168	2,168	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
ROBERTSON	73,272	73,272	73,272	73,272	73,272	73,272	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
SHACKELFORD	194	194	194	194	194	194	Recommended as a more conservative estimate based

	RWPG Revision Requests						
County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**	**Comment**
							on greater average use over 2010-2019 period.
SOMERVELL	335	335	335	335	335	335	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
STONEWALL	95	95	95	95	95	95	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
TAYLOR	1,426	1,426	1,426	1,426	1,426	1,426	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
THROCKMORTON	71	71	71	71	71	71	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.
WASHINGTON	251	251	251	251	251	251	Recommended as a more conservative estimate based on greater average use over 2010-2019 period.

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Livestock

For projections of water demand for livestock, annual estimates of livestock form the primary source of data. County-level annual inventory estimates are calculated for various livestock categories: cattle, equine, goats, hogs, sheep, and poultry – broiler chickens, non-broiler chickens, and turkeys. Estimations for each livestock category begin with the most recent census or survey from the U.S. Department of Agriculture (USDA) - National Agriculture Statistics Service (NASS). The agricultural census is conducted once every five years. Between these years, surveys are conducted by the USDA to update the annual inventory estimates. These annual inventory estimates are multiplied by species-specific water use per head values, then summed with surveyed water use for non-standard livestock production such as fish hatcheries.

A baseline water use was developed by TWDB using the average of five years of TWDB annual region-county-level estimates over the 2015 – 2019 period. Trend factors for projecting demands through the planning horizon are based on the percent changes from the most recently approved 2021 regional water plan, whereby draft year 2080 projections are held constant from the year 2070 projections. The fourth data requirement for adjustment identified in the Exhibit C Guidelines for livestock water demand projections (Section 2.2.2.6, Item 4) is, "[o]ther data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the livestock water demand projections." The Brazos G RWPG again considered planning for water demands during drought conditions as specified in TAC §357.10 (39).

The Brazos G RWPG has reviewed the methodology for the development of revised statewide water use coefficients for the various categories of livestock, and recommends that efficiencies in water use for dairy cattle at facilities - such as those found in Regions A and O as cited in TWDB's documentation - may not be applicable for use in the Brazos G region. The Brazos G RWPG recommends continued use of the 75 gal/head/day water use coefficient (as used in the 2021 Plan) for estimates of water use for dairy cattle production for counties within the Brazos G region, as a more conservative representation of facilities located within the region. Utilizing this revised water use coefficient for dairy cattle, the Brazos G RWPG performed a comparative analysis of the draft baseline water use (for all categories) to an extended 10-year average over the 2010-2019 period. The livestock inventory data over this extended period were provided by TWDB. It is observed that for numerous counties there was increased water use in the years preceding 2015, predominantly coincident with drought conditions for numerous counties observed in the 2010 – 2011 period.

The Brazos G RWPG agrees that the use of an average is appropriate to capture varying trends in livestock water use. However, to have a more conservative estimate of projected water demand for livestock uses representative of drought conditions, the Brazos G RWPG recommends utilizing the average over the extended 10-year period (2010-2019) for the identified counties in Table 4. For these counties, use of the extended 10-year period (along with the recommended revised water use coefficient for dairy cattle) as the baseline captures higher estimated uses for inventories during drought conditions. The Brazos G RWPG further recommends that adjustments for surveyed livestock facilities (e.g., Possum Kingdom Fish Hatchery in Palo Pinto County as shown in Table 5) should be averaged over the same 10-year (2010-2019) period, then applied per TWDB's methodology. Note that the proposed revised amount for Palo Pinto County shown in Table 4 already includes this recommended adjustment.

No change from the draft recommended livestock projections is recommended for those counties in the Brazos G region where use of the extended 10-year period would result in a decreased baseline amount, as the increased use in the more recent 5-year period for these counties reflects a more conservative estimation of recent trends in water demand for livestock use.

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Table 3 – Comparison of 5- and 10-year Averages of Estimated Historical Livestock Water Use by County (2010-2019)

County	Estimated Historical Water Use for Livestock (using revised water use coefficient for dairy cattle of 75 gal/head/day)										Draft Baseline	Surveyed	Revised Dairy Coeff	Revised Baseline	Difference	
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		10-yr Average (2010-2019)	10-yr Average (2010-2019)		Amount	%
BELL	1,615	1,647	817	796	849	878	918	736	756	757	790		977	977	187	24%
BOSQUE	1,363	1,398	736	694	739	743	763	956	985	986	887		936	936	49	6%
BRAZOS	1,043	1,046	838	907	934	960	969	1,156	1,204	1,204	1,098		1,026	No Revision Recommended	N/A	N/A
BURLESON	1,940	1,988	1,128	1,034	1,084	1,127	1,151	1,025	1,057	1,060	1,072		1,259	1,259	187	17%
CALLAHAN	1,116	1,182	779	699	728	724	735	867	889	890	821		861	861	40	5%
COMANCHE	3,350	3,390	3,321	3,001	3,150	3,148	3,229	3,832	3,901	4,035	3,051		3,436	3,436	385	13%
CORYELL	1,166	1,182	1,001	1,141	1,149	1,167	1,189	1,007	1,044	1,044	1,090		1,109	1,109	19	2%
EASTLAND	1,505	1,577	976	743	779	787	810	795	822	822	806		962	962	156	19%
ERATH	6,059	6,189	5,979	5,286	5,028	4,960	5,163	6,844	7,063	7,264	5,135		5,984	5,984	849	17%
FALLS	2,162	2,304	1,612	1,531	1,601	1,643	1,657	2,025	2,100	2,102	1,904		1,874	No Revision Recommended	N/A	N/A
FISHER	819	875	570	358	426	362	374	341	358	358	359		484	484	125	35%
GRIMES	2,171	2,245	1,263	1,241	1,357	1,442	1,493	1,067	1,095	1,097	1,193		1,447	1,447	254	21%
HAMILTON	1,412	1,493	1,416	1,377	1,322	1,314	1,351	1,744	1,790	1,829	1,432		1,505	1,505	73	5%
HASKELL	572	617	431	292	296	304	308	459	481	481	406		424	424	18	4%
HILL	1,796	1,837	925	1,038	1,102	1,089	1,115	1,257	1,297	1,305	1,179		1,276	1,276	97	8%
HOOD	531	542	440	472	591	499	499	423	432	432	459		486	486	27	6%
JOHNSON	1,416	1,443	1,301	1,447	1,656	1,621	1,657	1,412	1,454	1,468	1,439		1,488	1,488	49	3%
JONES	622	660	579	477	557	499	510	405	421	420	451		515	515	64	14%
KENT	292	290	263	246	227	233	235	292	307	307	276		269	No Revision Recommended	N/A	N/A
KNOX	457	498	379	602	609	621	636	459	475	475	534		521	No Revision Recommended	N/A	N/A

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County	Estimated Historical Water Use for Livestock (using revised water use coefficient for dairy cattle of 75 gal/head/day)										Draft Baseline	Surveyed	Revised Dairy Coeff	Revised Baseline	Difference	
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		10-yr Average (2010-2019)	10-yr Average (2010-2019)		Amount	%
LAMPASAS	857	878	507	464	470	482	502	553	570	570	525		585	585	60	11%
LEE	1,406	1,394	1,181	1,014	1,047	1,073	1,085	1,319	1,368	1,368	1,242		1,226	No Revision Recommended	N/A	N/A
LIMESTONE	1,519	1,516	1,272	1,451	1,560	1,624	1,680	1,414	1,453	1,457	1,494		1,495	1,495	1	0%
MCLENNAN	1,618	1,644	1,433	1,527	1,518	1,481	1,523	1,803	1,854	1,865	1,642		1,627	No Revision Recommended	N/A	N/A
MILAM	1,736	1,749	1,495	1,254	1,291	1,326	1,340	1,615	1,667	1,671	1,524		1,514	No Revision Recommended	N/A	N/A
NOLAN	336	342	303	250	249	254	256	246	256	256	254		275	275	21	8%
PALO PINTO	865	878	726	786	815	826	840	774	805	804	1,735	1,018	1,830	1,830	95	5%
ROBERTSON	2,587	2,685	1,757	1,661	1,686	1,725	1,768	2,114	2,177	2,196	1,970		2,036	2,036	66	3%
SHACKELFORD	663	679	592	477	485	497	504	506	527	527	513		546	546	33	6%
SOMERVELL	181	184	137	145	180	132	134	136	140	139	137		151	151	14	10%
STEPHENS	589	611	382	370	361	371	375	401	414	414	396		429	429	33	8%
STONEWALL	356	365	321	316	309	315	319	418	429	429	383		358	No Revision Recommended	N/A	N/A
TAYLOR	962	1,027	858	616	620	638	644	728	758	758	705		761	761	56	8%
THROCK-MORTON	537	551	494	443	443	455	459	704	725	725	614		554	No Revision Recommended	N/A	N/A
WASHINGTON	1,477	1,460	1,221	1,201	1,282	1,319	1,356	1,684	1,764	1,785	1,544		1,455	No Revision Recommended	N/A	N/A
WILLIAMSON	2,163	2,213	1,208	1,320	1,394	1,353	1,378	1,394	1,447	1,447	1,405		1,532	1,532	127	9%
YOUNG	656	672	593	456	554	520	525	619	640	641	588		588	No Revision Recommended	N/A	N/A

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Table 4 – Recommended Revisions to Projected Draft Livestock Water Demands for Counties in the Brazos G Region (2030-2080)

		RWPG Revised						
Region	County	2030	2040	2050	2060	2070	2080	Comment
G	BELL	977	977	977	977	977	977	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	BOSQUE	936	936	936	936	936	936	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	BRAZOS							No revision recommended.
G	BURLESON	1,259	1,259	1,259	1,259	1,259	1,259	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	CALLAHAN	861	861	861	861	861	861	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	COMANCHE	3,436	3,436	3,436	3,436	3,436	3,436	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	CORYELL	1,109	1,109	1,109	1,109	1,109	1,109	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	EASTLAND	962	962	962	962	962	962	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	ERATH	5,984	5,984	5,984	5,984	5,984	5,984	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	FALLS							No revision recommended.
G	FISHER	484	484	484	484	484	484	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.

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		RWPG Revised						
Region	County	2030	2040	2050	2060	2070	2080	Comment
G	GRIMES	1,447	1,447	1,447	1,447	1,447	1,447	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	HAMILTON	1,505	1,505	1,505	1,505	1,505	1,505	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	HASKELL	424	424	424	424	424	424	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	HILL	1,276	1,276	1,276	1,276	1,276	1,276	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	HOOD	486	486	486	486	486	486	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	JOHNSON	1,488	1,488	1,488	1,488	1,488	1,488	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	JONES	515	515	515	515	515	515	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	KENT							No revision recommended.
G	KNOX							No revision recommended.
G	LAMPASAS	585	585	585	585	585	585	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	LEE							No revision recommended.

		RWPG Revised						
Region	County	2030	2040	2050	2060	2070	2080	Comment
G	LIMESTONE	1,495	1,495	1,495	1,495	1,495	1,495	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	MCLENNAN							No revision recommended.
G	MILAM							No revision recommended.
G	NOLAN	275	275	275	275	275	275	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	PALO PINTO	1,830	1,830	1,830	1,830	1,830	1,830	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	ROBERTSON	2,036	2,036	2,036	2,036	2,036	2,036	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	SHACKELFORD	546	546	546	546	546	546	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	SOMERVELL	151	151	151	151	151	151	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	STEPHENS	429	429	429	429	429	429	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	STONEWALL							No revision recommended.

		RWPG Revised						
Region	County	2030	2040	2050	2060	2070	2080	Comment
G	TAYLOR	761	761	761	761	761	761	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	THROCKMORTON							No revision recommended.
G	WASHINGTON							No revision recommended.
G	WILLIAMSON	1,532	1,532	1,532	1,532	1,532	1,532	Recommended as a more conservative estimate based on increased dairy cattle water use coefficient to 75 gal/head/day and increased average use over 2010-2019 period.
G	YOUNG							No revision recommended.

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Table 5 – Comparison of Draft and Revised Adjustment based on 2010-2019 Historical Water Use Estimates (in acre-feet) | Livestock by Facility (Water Use Survey)

systemName	County	NAICS	NAICS Definition	Total Net Use (ac-ft)										DRAFT Adj. 5-yr Avg	REVISED Adj. 10yr Avg
				2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		
POSSUM KINGDOM FISH HATCHERY	PALO PINTO	112511	Finfish Farming and Fish Hatcheries	1,140	1,043	1,146	1,113	1,113	964	1,010	732	876	1,042	925	1,018

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Manufacturing

Per the Exhibit C Guidelines, manufacturing water use is defined as water used to produce manufactured goods. Generally, the methodology employed in the development of the draft projections of water demand for manufacturing is to base future demands on historical water use trends and plans for closure, expansion, and/or new construction of manufacturing facilities. This begins with the development of a baseline for each county. This baseline is calculated as the highest county-aggregated manufacturing water use in the most recent five years (2015-2019), plus unaccounted water use. The source of the use data is the reported water use submitted by manufacturing facilities to the TWDB annually through the Water Use Survey (WUS). The unaccounted water use is determined using a combination of information from the U.S. Census Bureau's County Business Patterns (CBP) dataset and the TWDB's WUS data.

Once the baseline volume is established for each county, the draft projection for 2030 is estimated using a statewide production growth proxy representing consistent incremental change to ensure the accommodation of potential near-term economic and manufacturing sector production growth. For the draft projections, this statewide growth rate was determined by TWDB to be 0.96%. Since the first projected decade (2030) is more than ten years from the baseline water use data, the statewide annual historical water use rate of change from 2010-2019 was selected as the proxy to adjust the baseline value to the projected 2030 value.

For each planning decade after 2030 (i.e., 2040-2080), a statewide manufacturing growth proxy was applied annually to project increases in manufacturing water demands. This growth proxy was based on the CBP historical number of establishments in the manufacturing sector from 2010-2019. For the draft projections, this statewide growth rate was determined by TWDB to be 0.37%.

The seventh data requirement for adjustment identified in the Exhibit C Guidelines for manufacturing water demand projections (Section 2.2.2.2, Item 7) is, "[o]ther data and evidence that the RWPG considers reasonable and adequate to justify an adjustment to the manufacturing water demand projections." The Brazos G RWPG again considered planning for water demands during drought conditions as specified in TAC §357.10 (39).

The Brazos G RWPG performed a comparative analysis (presented in Table 6 below) based on the historical manufacturing water use over the 2010-2019 period, using the manufacturing use data provided by TWDB. As noted above, the baseline for the draft projections of manufacturing water use in each county were based on the maximum over the 5-year, 2015-2019 period. This analysis identifies and compares maximum manufacturing water uses by county over the longer 10-year, 2010-2019 period. Noting the importance of capturing more recent trends (particularly when the baseline will be extended another ten years to 2030), attention has been given to downward trends in these use data, such that those instances with significantly declining (or no) manufacturing use are excluded from the Brazos G RWPG's consideration of modifying the baseline value for each county. The green highlights in Table 6 below identify which counties are recommended by the Brazos G RWPG to use a revised baseline water demand based on the maximum over the 10-year period. These revised baselines function as a more conservative representation of manufacturing water demands during drought conditions, such as those experienced by numerous counties within the Brazos G region during the 2010-2012 period.

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Table 6 – Comparative Analysis of Historical Manufacturing Water Use by County in Brazos G Region utilizing 5- and 10-year Maximums (2010-2019)

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	5-Yr Max	Year (5-yr Max)	10-Yr Max	Year (10-yr Max)	Un-accted Water Use	Draft Baseline Water Demand (5-yr)	Revised Baseline Water Demand (10-yr)	Diff.	% Diff.	Comment
BELL	523	559	600	610	640	771	618	615	576	571	771	2015	771	2015	46	817	817	0	0%	No change to baseline.
BOSQUE	1	1	2	2	3	3	3	3	3	4	4	2019	4	2019	0	4	4	0	0%	No change to baseline.
BRAZOS	1,668	1,770	1,422	1,300	1,158	1,311	1,368	1,418	1,426	1,485	1,485	2019	1,770	2011	39	1,524	1,809	285	19%	Revision to baseline recommended.
BURLESON	118	111	111	111	111	111	111	35	21	8	111	2015	118	2010	0	111	118	7	6%	Revision to baseline recommended.
CALLAHAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	No change to baseline.
COMANCHE	11	17	12	14	17	13	12	10	10	12	13	2015	17	2011	0	13	17	4	31%	Revision to baseline recommended.
CORYELL	3	4	4	2	2	2	2	2	4	3	4	2018	4	2018	0	4	4	0	0%	No change to baseline.
EASTLAND	40	40	38	42	48	46	36	38	44	51	51	2019	51	2019	0	51	51	0	0%	No change to baseline.
ERATH	60	69	75	56	53	49	60	63	66	64	66	2018	75	2012	1	67	76	9	13%	Revision to baseline recommended.
FALLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	No change to baseline.
FISHER	105	128	149	157	154	133	157	166	149	134	166	2017	166	2017	0	166	166	0	0%	No change to baseline.
GRIMES	216	325	328	301	295	237	156	230	261	247	261	2018	328	2012	9	270	337	67	25%	Revision to baseline recommended.
HAMILTON	7	8	7	6	6	9	9	13	17	17	17	2018	17	2018	0	17	17	0	0%	No change to baseline.
HASKELL	0	0	0	0	0	0	2	2	2	2	2	2016	2	2016	0	2	2	0	0%	No change to baseline.
HILL	1	1	0	0	0	0	0	0	0	0	0	0	1	2010	6	6	7	1	17%	No use last 5 years, no change to baseline
HOOD	6	13	14	12	14	12	10	13	11	10	13	2017	14	2012	2	15	16	1	7%	Revision to baseline recommended.
JOHNSON	1,526	1,576	1,344	1,397	1,484	1,502	1,746	1,916	1,972	1,799	1,972	2018	1,972	2018	92	2,064	2,064	0	0%	No change to baseline.
JONES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	No change to baseline.
KENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	No change to baseline.
KNOX	0	0	1	4	0	0	0	0	0	0	0	0	4	2013	0	0	4	4	100%	No use last 5 years, no change to baseline.
LAMPASAS	159	58	181	198	155	149	163	172	163	180	180	2019	198	2013	0	180	198	18	10%	Revision to baseline recommended.
LEE	6	7	7	6	6	7	6	8	7	9	9	2019	9	2019	0	9	9	0	0%	No change to baseline.
LIMESTONE	30	214	41	39	27	28	23	23	25	23	28	2015	214	2011	0	28	214	186	664%	Revision to baseline recommended.
MCLENNAN	2,208	3,979	3,698	4,792	3,256	3,284	3,830	4,062	3,918	4,100	4,100	2019	4,792	2013	68	4,168	4,860	692	17%	Revision to baseline recommended.
MILAM	12	12	12	0	0	0	0	0	0	0	0	0	12	2010	0	0	12	12	100%	No use last 5 years, no change to baseline.
NOLAN	448	388	395	398	375	352	455	439	418	427	455	2016	455	2016	1	456	456	0	0%	No change to baseline.
PALO PINTO	24	24	14	9	11	13	4	3	3	3	13	2015	24	2010	0	13	24	11	85%	Revision to baseline recommended.
ROBERTSON	51	43	39	43	45	40	35	35	37	39	40	2015	51	2010	0	40	51	11	28%	Revision to baseline recommended.
SHACKELFORD	9	13	10	9	0	0	0	0	0	0	0	0	13	2011	0	0	13	13	100%	No use last 5 years, no change to baseline.
SOMERVELL	2	2	1	2	3	4	3	3	4	4	4	2015	4	2015	0	4	4	0	0%	No change to baseline.
STEPHENS	7	5	7	6	5	4	2	7	5	5	7	2017	7	2017	0	7	7	0	0%	No change to baseline.
STONEWALL	0	0	5	0	14	0	0	0	0	0	0	0	14	2014	0	0	14	14	100%	No use last 5 years, no change to baseline.
TAYLOR	584	286	411	485	429	498	519	492	462	507	519	2016	584	2010	25	544	609	65	12%	Revision to baseline recommended.
THROCK-MORTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	No change to baseline.
WASHINGTON	513	583	553	483	566	438	246	281	235	253	438	2015	583	2011	6	444	589	145	33%	Revision to baseline recommended.

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County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	5-Yr Max	Year (5-yr Max)	10-Yr Max	Year (10-yr Max)	Un-accted Water Use	Draft Baseline Water Demand (5-yr)	Revised Baseline Water Demand (10-yr)	Diff.	% Diff.	Comment
WILLIAMSON	781	793	706	657	221	275	340	752	745	716	752	2017	793	2011	30	782	823	41	5%	Revision to baseline recommended.
YOUNG	25	26	36	10	9	18	31	50	64	83	83	2019	83	2019	0	83	83	0	0%	No change to baseline.

Note: For calculation of maximum year, WUS data for the entire county was considered per TWDB manufacturing methodology. This affects Williamson and Young Counties. Williamson County is located in Regions G and K, and Young County is located in Regions G and B.

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The Brazos G RWPG performed an additional analysis investigating the use of a region-specific production growth proxy (rather than statewide). The historical manufacturing water use estimates provided by TWDB were utilized to calculate a new, region-specific growth rate (presented in Table 7).

Table 7 – Historical Manufacturing Water Use Estimates by County in Brazos G Region (2010-2019)

	Historical Water Use Estimates (Source: TWDB) | Manufacturing by Region-County									
County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BELL	523	559	600	610	640	771	618	615	576	571
BOSQUE	1	1	2	2	3	3	3	3	3	4
BRAZOS	1,668	1,770	1,422	1,300	1,158	1,311	1,368	1,418	1,426	1,485
BURLESON	118	111	111	111	111	111	111	35	21	8
CALLAHAN	0	0	0	0	0	0	0	0	0	0
COMANCHE	11	17	12	14	17	13	12	10	10	12
CORYELL	3	4	4	2	2	2	2	2	4	3
EASTLAND	40	40	38	42	48	46	36	38	44	51
ERATH	60	69	75	56	53	49	60	63	66	64
FALLS	0	0	0	0	0	0	0	0	0	0
FISHER	105	128	149	157	154	133	157	166	149	134
GRIMES	216	325	328	301	295	237	156	230	261	247
HAMILTON	7	8	7	6	6	9	9	13	17	17
HASKELL	0	0	0	0	0	0	2	2	2	2
HILL	1	1	0	0	0	0	0	0	0	0
HOOD	6	13	14	12	14	12	10	13	11	10
JOHNSON	1,526	1,576	1,344	1,397	1,484	1,502	1,746	1,916	1,972	1,799
JONES	0	0	0	0	0	0	0	0	0	0
KENT	0	0	0	0	0	0	0	0	0	0
KNOX	0	0	1	4	0	0	0	0	0	0
LAMPASAS	159	58	181	198	155	149	163	172	163	180
LEE	6	7	7	6	6	7	6	8	7	9
LIMESTONE	30	214	41	39	27	28	23	23	25	23
MCLENNAN	2,208	3,979	3,698	4,792	3,256	3,284	3,830	4,062	3,918	4,100
MILAM	12	12	12	0	0	0	0	0	0	0
NOLAN	448	388	395	398	375	352	455	439	418	427
PALO PINTO	24	24	14	9	11	13	4	3	3	3
ROBERTSON	51	43	39	43	45	40	35	35	37	39
SHACKELFORD	9	13	10	9	0	0	0	0	0	0
SOMERVELL	2	2	1	2	3	4	3	3	4	4
STEPHENS	7	5	7	6	5	4	2	7	5	5
STONEWALL	0	0	5	0	14	0	0	0	0	0
TAYLOR	584	286	411	485	429	498	519	492	462	507
THROCK-MORTON	0	0	0	0	0	0	0	0	0	0

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County	Historical Water Use Estimates (Source: TWDB) | Manufacturing by Region-County									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
WASHINGTON	513	583	553	483	566	438	246	281	235	253
WILLIAMSON	773	790	702	653	202	265	328	739	732	708
YOUNG	25	26	36	10	9	18	31	50	64	83
TOTAL	**9,136**	**11,052**	**10,219**	**11,147**	**9,088**	**9,299**	**9,935**	**10,838**	**10,635**	**10,748**

The formula for calculating the compounded growth rate is:

$$Rate = \left[\left[\frac{Amount_2}{Amount_1}\right]^{\frac{1}{Year\ _2 - Year_1}}\right] - 1$$

Utilizing this formula and the 2010 and 2019 totals for counties in Brazos G, the region-specific growth rate was determined to be 1.82%. The Brazos G RWPG recommends use of this region-specific growth rate to reflect manufacturing trends more accurately in counties within the Brazos G region.

While surveying municipal user groups within the region, the Brazos G RWPG received a notification from Ms. Heather Lindner, P.E. with HDR, who has assisted the City of Taylor with preparing its responses to the Brazos G survey. Mr. Jim Gray, Public Works Director for the City of Taylor, along with Mr. Jacob Walker and Mr. Cory Shockley (HDR), were copied on this response. Within this survey response, it was noted that the City of Taylor has a contract with Samsung Austin Semiconductor, LLC. The contracted potable water supply amount varies, but is anticipated to remain constant at 0.87 MGD (975 ac-ft/year) after 2026. The City anticipates additional future industrial wholesale customers, that when combined with Samsung, would total 1.5 MGD (1,680 ac-ft/year). The City of Taylor is located within Williamson County, and this amount will be included within the Brazos G RWPG's request for revisions to municipal demand projections.

Presented in Table 8 are the recommended revisions to the projections for manufacturing water demand in the Brazos G region. These revisions reflect use of the recommended region-specific growth rate of 1.82% (identified in blue) for the estimation of 2030 projections, and for specific counties (identified in green) revised baseline amounts based on the identified maximums over the 10-year, 2010-2019 period.

No revision is recommended for modification of the statewide manufacturing growth proxy (0.37%) utilized to project increases in manufacturing water demands over the 2040-2080 period. The revised manufacturing water use projections presented in Table 8 utilize this rate per TWDB's methodology.

For Williamson County, 1,680 ac-ft/year (~1.5 MGD) of demand has thus been added – in addition to the previous revisions for the 2030 decade - to reflect the near-term growth in manufacturing demand identified by the City in its survey response.

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Table 8 – Recommended Revisions to Projected Draft Manufacturing Water Demands for Counties in the Brazos G Region (2030-2080)

County	Baseline Water Demand (Revised in Green)	Revised Brazos G WUS Average Annual Rate of Change (production growth proxy delta)	CBP Historical Average Annual Rate of Change (economic proxy delta)	Recommended Revised Projection						Comment
				2030	2040	2050	2060	2070	2080	
BELL	817	1.82%	0.37%	966	1,002	1,039	1,078	1,118	1,160	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
BOSQUE	4	1.82%	0.37%	5	5	5	5	5	5	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
BRAZOS	1,809	1.82%	0.37%	2,139	2,219	2,302	2,388	2,477	2,569	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
BURLESON	118	1.82%	0.37%	139	144	149	155	161	167	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
CALLAHAN	0	1.82%	0.37%							No revision.
COMANCHE	17	1.82%	0.37%	20	21	22	23	24	25	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
CORYELL	4	1.82%	0.37%	5	5	5	5	5	5	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.

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County	Baseline Water Demand (Revised in Green)	Revised Brazos G WUS Average Annual Rate of Change (production growth proxy delta	CBP Historical Average Annual Rate of Change (economic proxy delta)	Recommended Revised Projection						Comment
				2030	2040	2050	2060	2070	2080	
EASTLAND	51	1.82%	0.37%	60	62	64	66	68	71	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
ERATH	76	1.82%	0.37%	90	93	96	100	104	108	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
FALLS	0	1.82%	0.37%							No revision.
FISHER	166	1.82%	0.37%	196	203	211	219	227	235	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
GRIMES	337	1.82%	0.37%	398	413	428	444	461	478	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
HAMILTON	17	1.82%	0.37%	20	21	22	23	24	25	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.

County	Baseline Water Demand (Revised in Green)	Revised Brazos G WUS Average Annual Rate of Change (production growth proxy delta	CBP Historical Average Annual Rate of Change (economic proxy delta)	Recommended Revised Projection						Comment
				2030	2040	2050	2060	2070	2080	
HASKELL	2	1.82%	0.37%							Recommended changes result in nominal change in result due to small amounts, no revision to projections recommended.
HILL	6	1.82%	0.37%							Recommended changes result in nominal change in result due to small amounts, no revision to projections recommended.
HOOD	16	1.82%	0.37%	19	20	21	22	23	24	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
JOHNSON	2,064	1.82%	0.37%	2,440	2,531	2,625	2,723	2,824	2,929	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
JONES	0	1.82%	0.37%							No revision.
KENT	0	1.82%	0.37%							No revision.
KNOX	0	1.82%	0.37%							No revision.
LAMPASAS	198	1.82%	0.37%	234	243	252	261	271	281	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.

County	Baseline Water Demand (Revised in Green)	Revised Brazos G WUS Average Annual Rate of Change (production growth proxy delta	CBP Historical Average Annual Rate of Change (economic proxy delta)	Recommended Revised Projection						Comment
				2030	2040	2050	2060	2070	2080	
LEE	9	1.82%	0.37%	11	11	11	11	11	11	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
LIMESTONE	214	1.82%	0.37%	253	262	272	282	292	303	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
MCLENNAN	4,860	1.82%	0.37%	5,745	5,959	6,181	6,411	6,649	6,896	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
MILAM	0	1.82%	0.37%							No revision.
NOLAN	456	1.82%	0.37%	539	559	580	602	624	647	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
PALO PINTO	24	1.82%	0.37%	28	29	30	31	32	33	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
ROBERTSON	51	1.82%	0.37%	60	62	64	66	68	71	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.

County	Baseline Water Demand (Revised in Green)	Revised Brazos G WUS Average Annual Rate of Change (production growth proxy delta	CBP Historical Average Annual Rate of Change (economic proxy delta)	Recommended Revised Projection						Comment
				2030	2040	2050	2060	2070	2080	
SHACKELFORD	0	1.82%	0.37%							No revision.
SOMERVELL	4	1.82%	0.37%	5	5	5	5	5	5	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.
STEPHENS	7	1.82%	0.37%							Recommended changes result in nominal change in result due to small amounts, no revision to projections recommended.
STONEWALL	0	1.82%	0.37%							No revision.
TAYLOR	609	1.82%	0.37%	720	747	775	804	834	865	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
THROCK-MORTON	0	1.82%	0.37%							No revision.
WASHINGTON	589	1.82%	0.37%	696	722	749	777	806	836	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.
WILLIAMSON	823	1.82%	0.37%	973	1,009	1,047	1,086	1,126	1,168	Revision based on combination of revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%, and revised baseline.

County	Baseline Water Demand (Revised in Green)	Revised Brazos G WUS Average Annual Rate of Change (production growth proxy delta	CBP Historical Average Annual Rate of Change (economic proxy delta)	Recommended Revised Projection						Comment
				2030	2040	2050	2060	2070	2080	
YOUNG	83	1.82%	0.37%	98	102	106	110	114	118	Revision based on revised, region-specific Brazos G WUS Average Annual Rate of Change (production growth proxy delta) of 1.82%.

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Mining

Per the Exhibit C Guidelines, mining water demand projections include water used for oil and gas development, as well as extraction of coal and lignite, sand aggregate, and other resources. Such projections do not include water use required for the transportation or refining of materials. Data utilized for the development of the mining use projections are derived from both surveyed and non-surveyed entities, and are based on a mining study conducted in partnership with the U.S. Geological Survey and the University of Texas Bureau of Economic Geology.

Decreases in the projections of mining water use in Brazos G appear largely driven by significantly less (~50%) coal mining in Robertson County since 2011, as well as the cessation of reported water use in 2015 by Luminant's Three Oaks mine in Lee County. As no discrepancies have been identified in the reporting and accompanying data, no revisions are recommended to the draft projections of mining water use for the purposes of the 2026 Brazos G Plan.

Steam-Electric Power Generation

Per the Exhibit C Guidelines, water use for steam-electric power generation is consumptive use reported to the TWDB through the annual WUS. The projections of water use for steam-electric power generation do not include water used in cogeneration facilities (included in manufacturing projections) or facilities which do not require water for production (wind, solar, dry-cooled generation), or hydro-electric generation facilities.

The baseline for the draft water demand projections is based on the highest county-aggregated historical steam-electric power water use in the most recent five years (2015-2019). Subsequent demand projections after 2030 are held constant throughout the planning period. For the identification and characterization of facilities used to develop the draft projections, TWDB staff reviewed information from state and federal reports, as well as information developed from previous water plans. Included in this review is an annual database from the U.S. Energy Information Administration (EIA), called EIA-860, which includes data about power generating facilities and infrastructure across the nation.

For the near-term projected decade (2030), proposed or existing, non-surveyed facilities identified in the EIA-860 reports (or other sources) are added to the baseline amount. TWDB staff estimated the anticipated annual water use based upon the non-surveyed facilities' fuel type, generation capacity, average water use per fuel type, and average operational time.

Anticipated demand from future facilities is then added to the demand projections from the anticipated operation date through 2080, although in practice, no such future facilities have been identified within the Brazos G region. Water use of power generation facilities scheduled for retirement in the state and federal reports is subtracted from the baseline or the decade in which they are projected to retire.

The fifth criteria for adjustment identified in the Exhibit C Guidelines for steam-electric power generation water demand projections (Section 2.2.2.3, Item 5) is, "[e]vidence that a currently operating power generation facility has experienced a higher dry-year water use beyond the most recent five years, within the most recent 10 years." The Brazos G RWPG again considered planning for water demands during drought conditions as specified in TAC §357.10 (39).

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The Brazos G RWPG performed a comparative analysis (presented in Table 9 below) based on the historical water use for steam-electric power generation over the 2010-2019 period, employing the use data provided by TWDB. As noted above, the baseline for the draft projections of water use in each county were based on the maximum over the 5-year, 2015-2019 period. The Brazos G RWPG's analysis identifies and compares maximum steam-electric power generation water uses by county over the longer 10-year, 2010-2019 period.

Noting the importance of capturing trends in use and in the retirement of facilities, the analysis performed by the Brazos G RWPG excludes historical uses over the 2010-2019 period that were reported by facilities that are presently retired. With the retired facilities excluded, 10-year maximums have been calculated and compared (shown in green highlights in Table 9) to identify those counties recommended by the Brazos G RWPG to use a revised baseline water demand based on the maximum over the 10-year period. These revised baselines function as a more conservative representation of steam-electric power generation water demands during drought conditions.

The recommended revisions to the projections of steam-electric power generation water demand are shown in Table 10.

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Table 9 – Comparative Analysis of 5- and 10-year Maximum Historical Facility Use by County within the Brazos G Region (2010-2019)

County	Facilities	Historical Facility Use by County (Source: TWDB)										Non-Surveyed Estimate	Comments	Draft Baseline	Max 5-yr (excluding retired facilities)	Max 10-yr (excluding retired facilities)	Revised 10-yr Baseline including Non-Surveyed Estimate	Diff	% Diff.
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019								
BELL	PANDA TEMPLE POWER	0	0	0	0	0	4,714	3,335	2,652	4,042	3,710	0		4,714	4,714	4,714	4,714	0	0%
BOSQUE	CALPINE CORP-BOSQUE ENERGY CENTER	0	0	0	0	0	2,880	2,715	2,294	2,435	2,426	0		2,880	2,880	2,880	2,880	0	0%
BRAZOS	CITY OF BRYAN-DANSBY POWER PLANT & POWER PLANT ATKINS STREET	235	421	422	234	392	465	502	363	496	470	98	Atkins Street Power Plant - Water use was estimated for non-surveyed plants, and active plants reporting 0 water use 2015-2019	600	502	502	600	0	0%
GRIMES	TENASKA FRONTIER GENERATION STATION	4,265	4,185	4,703	4,334	2,450	2,960	3,627	3,555	3,530	3,780	0	Gibbons Creek Power Plant confirmed retirement after 2018.	3,780	3,780	4,703	4,703	923	24%
HOOD	ETHOS ENERGY-WOLF HOLLOW 1 POWER LLC, EXELON POWER-WOLF HOLLOW 2 POWER LLC, & LUMINANT GENERATION COMPANY LLC-DECORDOVA STEAM ELECTRIC STATION	11	14	14	2,572	3,151	1,989	1,844	2,235	1,489	1,882	0		2,235	2,235	3,151	3,151	916	41%
JOHNSON	BRAZOS ELECTRIC POWER CO OP INC-JOHNSON COUNTY GENERATION FACILITY	1,915	1,685	1,273	1,120	1,070	882	679	590	743	1,283	0		1,283	1,283	1,915	1,915	632	49%
LIMESTONE	NRG TEXAS POWER LLC-LIMESTONE ELECTRIC GENERATING PLANT	21,699	22,936	20,238	22,473	20,727	15,279	15,636	15,769	17,156	15,972	0		17,156	17,156	22,936	22,936	5,780	34%
MCLENNAN	SANDY CREEK ENERGY ASSOCIATES LP-SANDY CREEK ENERGY STATION	0	0	0	0	0	0	2	2	2	15	0	Luminant Lake Creek and Tradinghouse plants retired prior to 2015. Previously proposed Lake Creek Plant was canceled.	15	15	15	15	0	0%

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County	Facilities	Historical Facility Use by County (Source: TWDB)										Non-Surveyed Estimate	Comments	Draft Baseline	Max 5-yr (excluding retired facilities)	Max 10-yr (excluding retired facilities)	Revised 10-yr Baseline including Non-Surveyed Estimate	Diff	% Diff.
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019								
MILAM	N/A	0	0	0	0	0	0	0	0	0	0	0	LUMINANT GENERATION COMPANY LLC-SANDOW STATION NO 4 & 5 confirmed retirement after 2018.	0	0	0	0	0	0%
PALO PINTO	BRAZOS ELECTRIC POWER CO OP INC-R W MILLER PLANT	460	501	391	107	101	223	334	296	677	542	0		677	677	677	677	0	0%
ROBERTSON	MAJOR OAKS POWER LLC-TWIN OAKS PLANT, & LUMINANT GENERATION COMPANY LLC-OAK GROVE STEAM ELECTRIC STATION	22,400	45,867	33,279	34,945	37,029	28,238	33,578	40,133	34,312	35,344	0		40,133	40,133	45,867	45,867	5,734	14%
SOMERVELL	LUMINANT GENERATION COMPANY LLC-COMANCHE PEAK STEAM ELECTRIC STATION	21,304	19,983	70,362	65,316	52,490	60,579	65,544	66,254	65,401	68,664	0		68,664	68,664	70,362	70,362	1,698	2%
YOUNG	LUMINANT GENERATION COMPANY LLC-GRAHAM STEAM ELECTRIC STATION	680	497	453	337	378	316	368	274	768	840	0		840	840	840	840	0	0%

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Table 10 – Recommended Revisions to Projected Draft Steam-Electric Power Generation Water Demands for Counties in the Brazos G Region (2030-2080)

County	RWPG Revision Requests						
	2030	2040	2050	2060	2070	2080	Comment
BELL							No revision.
BOSQUE							No revision.
BRAZOS							No revision.
BURLESON							No revision.
CALLAHAN							No revision.
COMANCHE							No revision.
CORYELL							No revision.
EASTLAND							No revision.
ERATH							No revision.
FALLS							No revision.
FISHER							No revision.
GRIMES	4,703	4,703	4,703	4,703	4,703	4,703	Revised using 10-yr maximum (excluding retired facilities).
HAMILTON							No revision.
HASKELL							No revision.
HILL							No revision.
HOOD	3,151	3,151	3,151	3,151	3,151	3,151	Revised using 10-yr maximum (excluding retired facilities).
JOHNSON	1,915	1,915	1,915	1,915	1,915	1,915	Revised using 10-yr maximum (excluding retired facilities).
JONES							No revision.
KENT							No revision.
KNOX							No revision.
LAMPASAS							No revision.
LEE							No revision.
LIMESTONE	22,936	22,936	22,936	22,936	22,936	22,936	Revised using 10-yr maximum (excluding retired facilities).
MCLENNAN							No revision.

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County	RWPG Revision Requests						
	2030	2040	2050	2060	2070	2080	Comment
MILAM							No revision.
NOLAN							No revision.
PALO PINTO							No revision.
ROBERTSON	45,867	45,867	45,867	45,867	45,867	45,867	Revised using 10-yr maximum (excluding retired facilities).
SHACKELFORD							No revision.
SOMERVELL	70,362	70,362	70,362	70,362	70,362	70,362	Revised using 10-yr maximum (excluding retired facilities).
STEPHENS							No revision.
STONEWALL							No revision.
TAYLOR							No revision.
THROCKMORTON							No revision.
WASHINGTON							No revision.
WILLIAMSON							No revision.
YOUNG							No revision.

2026 Regional Water Plan Projections
Summary of the Brazos Regional Water Planning Group (Region G)
Official Revision Request & Executive Administrator Recommendation for Board Consideration
October 20, 2023

The Brazos Regional Water Planning Group (Region G) submitted their official revision requests to the Texas Water Development Board (TWDB) on July 7, 2023 for non-municipal categories and August 11, 2023 for municipal categories. The TWDB reviewed the requests in accordance with criteria established in Section 2 of the *First Amended General Guidelines for Development of the 2026 Regional Water Plans (Exhibit C)*, which was updated by the TWDB in October 2022. This document summarizes the recommended population and water demand projections released as draft by the TWDB, the revisions requested by Region G, and the final demand projections recommended by the Executive Administrator following agency (Texas Commission on Environmental Quality, Texas Department of Agriculture, and Texas Parks and Wildlife Department) coordination. All the water demand projections are displayed in acre-feet/year.

1. Population & Municipal Water Demand Projections

Population	2030	2040	2050	2060	2070	2080
Draft	2,703,905	3,074,453	3,481,252	3,913,803	4,400,096	4,946,811
Requested Changes	*3,103,553*	*3,768,813*	*4,392,896*	*4,980,317*	*5,569,009*	*6,254,499*
Recommended	3,032,159	3,649,340	4,183,073	4,682,109	5,160,738	5,660,538

The TWDB provided two draft population projections using a 1.0 migration scenario and a 0.5 migration scenario developed by the Texas Demographic Center (TDC). For comparison purposes, the 1.0 migration scenario is listed in the table above as "Draft." Region G requested the 1.0 migration scenario for 18 counties and 0.5 migration scenario for 17 counties. In all counties except for McLennan, the region requested an increase to the county total based on a demographic undercount analysis that utilized research from the Pew Research Center concerning the national undercount percentage of Hispanic (5 percent) and Black (3.3 percent) populations, identified by the U.S. Census Bureau in the 2020 Census, and the estimated percentage of Hispanic and Black population in each county. The region only utilized this demographic undercount approach in 20 counties, while in 16 counties, water user group (WUG)-specific revisions were requested in addition to the undercount approach.

Region G requested to revise the population projections for 354 of the 360 WUG-county splits. In accordance with *General Guidelines for Development of the 2026 Regional Water Plans* (Exhibit C), the TWDB thoroughly reviewed the supporting documentation provided by the region. Additionally, the TWDB reviewed historical self-reported growth rates that WUGs have submitted to the TWDB Water Use Survey (WUS) and U.S. Census Bureau data as applicable for each WUG request. After review, the TWDB EA recommends 333 of these requests. For 18 WUG-county splits, the TWDB EA recommends further revisions, and for the remaining four WUG-county splits, the TWDB EA does not recommend the requests.

The recommended population projections are 12 percent higher in 2030, 20 percent higher in 2050, and 14 percent higher in 2080 compared to the draft projections.

Municipal Demand	2030	2040	2050	2060	2070	2080
Draft	458,329	517,539	584,583	655,590	735,585	825,087
Requested Changes	*562,157*	*671,454*	*774,628*	*867,750*	*962,647*	*1,073,290*
Recommended	552,334	654,908	746,902	832,014	915,785	1,002,767

Region G requested revisions to the baseline GPCDs for 281 WUG-county splits. All were recommended by the TWDB, except one WUG, because the requested GPCD did not align with the WUG's self-reported net use in the WUS. Region G requested revisions to the draft plumbing code savings for projections for 12 WUG-County splits, nine were recommended and three were not recommended because the supporting documentation does not explain if the revision is due to passive savings from plumbing code laws or active conservation (the latter should be included in strategies).

The recommended municipal water demand projections are 21 percent higher in 2030, 28 percent higher in 2050, and 22 percent higher in 2080 when compared to the draft municipal water demand projections.

2. Non-Municipal Water Demand Projections

2.1 Irrigation:

Irrigation Demand	2030	2040	2050	2060	2070	2080
Draft	284,813	284,813	284,743	287,134	284,796	284,630
Requested Changes	*320,150*	*320,150*	*319,772*	*319,536*	*319,382*	*319,382*
Recommended	320,150	320,150	319,772	319,536	319,382	319,382

Region G analyzed the highest annual irrigation water use in a 10-year period from 2010-2019 in addition to the 5-year period from 2015-2019 used in the draft projections because the 10-year time period is more indicative of dry year conditions driven primarily by severe drought in the 2010-2012 period. The region compared the 10- and 5-year averages and chose to use the highest value for each county. The region's request is 12 percent higher in each decade 2030-2080 compared to the draft projections. The TWDB EA recommends the planning group's requested revisions to the irrigation water demand projections.

2.2 Livestock:

Livestock Demand	2030	2040	2050	2060	2070	2080
Draft	41,053	41,053	41,053	41,053	41,053	41,053
Requested Changes	*44,138*	*44,138*	*44,138*	*44,138*	*44,138*	*44,138*
Recommended	44,138	44,138	44,138	44,138	44,138	44,138

Region G requested to use the 75 gallons/head/day water use coefficient for dairy cattle from the 2021 Regional Water Plan instead of the updated 55 gallons/head/day water use coefficient used in the 2026 Regional Water Plan draft projections because efficiencies in water use for dairy cattle facilities, such as those in Regions A and O, may not be applicable for use within Region G. Region G also analyzed the

highest annual historical livestock water use in a 10-year period from 2010-2019 in addition to the 5-year period from 2015-2019 used in the draft projections because the 10-year time period is more indicative of dry year conditions driven primarily by severe drought in the 2010-2012 period. The region compared the 10- and 5-year averages and chose to use the highest value for each county. The region's request is 10 percent higher each decade 2030-2080 compared to the draft projections. The TWDB EA recommends the planning group's requested revisions to the livestock water demand projections.

2.3 Manufacturing:

Manufacturing Demand	2030	2040	2050	2060	2070	2080
Draft	13,015	13,498	13,997	14,516	15,053	15,608
Requested Changes	*15,876*	*16,466*	*17,078*	*17,714*	*18,370*	*19,052*
Recommended	16,847	17,474	18,124	18,800	19,498	20,223

Region G requested to use the region-specific compounded annual growth rate of 1.82% from 2010-2019 as the proxy growth rate applied to the manufacturing baseline water use. Region G also requested 1,680 acre-feet of additional manufacturing demands in Williamson County based on anticipated future customers, but this demand was originally requested as additional municipal demands. The TWDB confirmed with the region that the requested use was for manufacturing facilities but could only confirm one future customer per Exhibit C criteria. To account for the planned customer in Williamson County, 975 acre-feet of demand was added to each decade in addition to the proxy growth rate adjustment. The recommended projections are 29 percent higher in 2030 and 30 percent higher in 2080 compared to the draft projections. The TWDB EA recommends the revised manufacturing water demand projections.

2.4 Mining:

Mining Demand	2030	2040	2050	2060	2070	2080
Draft	27,389	28,139	25,835	26,406	25,893	26,283
Requested Changes	*27,389*	*28,139*	*25,835*	*26,406*	*25,893*	*26,283*
Recommended	27,389	28,139	25,835	26,406	25,893	26,283

Region G did not request any changes to the draft mining water demand projections.

2.5 Steam-Electric Power:

Steam-Electric Demand	2030	2040	2050	2060	2070	2080
Draft	142,977	142,977	142,977	142,977	142,977	142,977
Requested Changes	*158,660*	*158,660*	*158,660*	*158,660*	*158,660*	*158,660*
Recommended	158,660	158,660	158,660	158,660	158,660	158,660

Region G requested to use the highest annual historical steam-electric power water use in a 10-year period from 2010-2019 for all counties instead of the 5-year period from 2015-2019 used in the draft projections because the 10-year time period is more indicative of dry year conditions driven primarily by severe drought in the 2010-2012 period. The region's request is 11 percent higher in each decade 2030-

2080 compared to the draft projections. The TWDB EA recommends the planning group's requested revisions to the steam-electric power water demand projections.

Thank you for submitting the Regional Water Planning Group's (RWPG) request to revise the population and municipal demand projections. In accordance with the *General Guidelines for Development of the 2026 Regional Water Plans* (Exhibit C), TWDB has reviewed the revision request and accompanying data provided by the RWPG and the Executive Administrator's (EA) response and recommendation is summarized here. Based on TWDB EA reviews, not all RWPG revision requests are being recommended by the EA for agency coordination. The attached spreadsheet includes three data tabs:

- Data Tab 1: the two TWDB draft county-level projection migration scenarios developed by the state demographer and provided to the RWPG from which they could select their scenario-preference, by county,
- Data Tab 2: the RWPG Water User Group (WUG)-level projection revision requests along with accompanying TWDB EA recommendations for each including review comments, and
- Data Tab 3: the TWDB EA county-level recommendations for agency coordination.

It is anticipated that the attached EA recommended WUG projections will be submitted to the three agencies (Texas Commission on Environmental Quality, Texas Department of Agriculture, and Texas Parks and Wildlife Department) for their review within two weeks. Following the reviews by the three agencies, the EA will recommend a final set of population and water demand projections to the TWDB Board for adoption for use in the 2026 Regional Water Plans.

The remaining discussion below summarizes the WUGs for which the EA is not recommending the RWPG's specific request to revise either:

- the population projections,
- the baseline gallons per capita per day (GPCD), or
- the plumbing code savings projections.

The EA provides key relevant background regarding the RWPG revision requests, including some explanation for what was considered in evaluating the request, and describes what was determined to be acceptable. In many cases, the EA recommends revised population projections or baseline GPCD, which differ from both the TWDB draft projections and the RWPG's specific revision request. The related municipal water demand projections are included in the corresponding spreadsheet (in acre-feet). At the end of each WUG summary below is a comparison of:

1. The TWDB Draft Projections,
2. The RWPG's Revision Request,
3. The EA's Recommended projections after considering the RWPG revision request.

Please see corresponding spreadsheet *RegionG_PopMun_2026RWP_TWDBReview.xlsx.*

Summary of those WUG revision requests that were not accepted and/or were modified:

Region G requested to revise the population projections for 354 of the 360 WUG-county splits. In accordance with *General Guidelines for Development of the 2026 Regional Water Plans* (Exhibit C), TWDB thoroughly reviewed the supporting documentation provided by the region. Additionally, TWDB reviewed historical self-reported growth rates that WUGs have submitted to the TWDB Water Use

Survey (WUS) and U.S. Census Bureau data as applicable for each WUG request. During TWDB's review process, there were many cases where the submitted documentation did not support the requested revisions, so TWDB developed alternative methodologies to revise the population projections and acknowledge the various data inputs, including the region's submitted documentation. After review, TWDB EA is recommending 333 of these requests. For 17 WUG-county splits, the TWDB recommends further revisions, and for the remaining four WUG-county splits, the TWDB does not recommend the requests – all of which is discussed below.

Region G also requested to revise 216 WUG GPCDs, of which TWDB recommends all but one, which is discussed below. Region G also requested to revise 11 WUG projected plumbing code savings, of which two are not recommended and are discussed below.

439 WSC

Region G requested to increase the population projections in all decades for 439 WSC compared to the draft projections. Region G provided supporting documentation including a Master Plan from the Brazos River Authority (BRA) and Bell County WCID1 which provide wholesale drinking water to 439 WSC. The plan's projections are described and presented on page 14. New population projections were developed from the Initially Prepared 2021 Regional Water Plan (RWP) population after meeting with representatives from Bell County WCID1 customers.

The region's requested projections resulted in an annual growth rate of 1.89% annual growth in 2030 and declined to 1.04% annual growth by 2080. TWDB compared these growth rates to historical connection data from the TWDB Water Use Survey (WUS) (1.36% annual growth from 2010-2020 and 1.85% annual growth from 2015-2019) and historical Census Data for Bell County (1.80% annual growth from 2010-2020 and 2.37% annual growth from 2020-2022). In Table 2.4 on page 14 of the Master Plan the Region provided a 2020 baseline population, 10,220, on which the requested growth rate was based. TWDB compared the requested baseline population to the TWDB 2020 population estimate, 6,277, and to 2020 WUS total connections, 2,473, multiplied by the Census persons per household (PPHH) for Bell County, 2.71, as a baseline population estimate, 6,702.

Because no additional documentation was provided to explain why the requested baseline population was higher than TWDB or WUS-Census based baseline population estimates for the year 2020, the EA recommends using 2020 WUS multiplied by the PPHH for Bell County to estimate baseline population. Then, based on consistency with historical WUS and Census data, the 2030 growth rate from the Master Plan was used to project near-term growth for the 2030 decade. After 2030 the growth rate was revised to decline linearly so that the revised 2080 growth rate was equal to the TWDB draft WUG growth rate in 2080 to align with the TWDB projected trend due to a lack of supporting documentation from the region about the long-term projected growth rates.

Comparison of the compounded annual growth rates per decade from 2020-2080:

439 WSC	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Draft WUG Growth Rate	0.80%	0.68%	0.49%	0.28%	0.31%	0.34%
Requested WUG Growth Rate	1.89%	1.63%	1.43%	1.28%	1.16%	1.04%
Recommended WUG Growth Rate	1.89%	1.58%	1.27%	0.96%	0.65%	0.34%

Comparison of the 439 WSC draft projections, RWPG requested, and TWDB EA recommended population projections:

439 WSC	2030	2040	2050	2060	2070	2080
TWDB Draft Projections	6,795	7,270	7,633	7,847	8,091	8,367
Region G Requested	12,327	14,490	16,700	18,961	21,285	23,609
EA Recommended	8,084	9,457	10,729	11,803	12,590	13,019

Belton

Region G requested to increase the population projections in all decades for Belton compared to the draft projections. Region G provided supporting documentation including a Master Plan from the BRA and Bell County WCID1 which provide wholesale drinking water to Belton. The plan's projections are described and presented on page 14. New population projections were developed from the Initially Prepared 2021 RWP population after meeting with representatives from Bell County WCID1 customers. In Table 2.4 on page 14 of the Master Plan the Region provided 2020 baseline population, 22,850, on which the requested growth rate was based.

The region's requested projections resulted in an annual growth rate of 2.27% annual growth in 2030 and declined to 1.86% annual growth by 2080. TWDB compared the requested baseline population and growth rates to historical Census data for the City of Belton (23,054 population in 2020, 2.38% annual growth from 2010-2020 and 2.72% annual growth from 2020-2022). The EA recommends the region's requested 2030 population projection. Due to the lack of supporting documentation for the projections methodology as to how the significant growth through the planning horizon will continue, the TWDB EA recommends lowering the growth rate over time. After 2030 the growth rate was revised to decline linearly so that the revised 2080 growth rate was equal to the TWDB draft WUG growth rate in 2080, to align with the TWDB projected trend due to a lack of supporting documentation from the region about the long-term projected growth rates.

Comparison of the compounded annual growth rates per decade from 2020-2080:

Belton	2030	2040	2050	2060	2070	2080
Draft WUG Growth Rate	1.45%	1.21%	0.84%	0.54%	0.57%	0.60%
Requested WUG Growth Rate	2.27%	2.33%	2.28%	2.30%	2.29%	1.86%
Recommended WUG Growth Rate	2.27%	1.94%	1.60%	1.27%	0.94%	0.60%

Comparison of the Belton draft projections, RWPG requested, and TWDB EA recommended population projections:

Comparison	2030	2040	2050	2060	2070	2080
TWDB Draft Population Projections	26,908	30,337	32,970	34,790	36,828	39,110
Region G Requested	28,600	36,000	45,100	56,600	71,000	85,400
EA Recommended	28,600	34,647	40,620	46,083	50,585	53,719

Copperas Cove

Region G provided supporting documentation including a Master Plan from the BRA and Bell County WCID1 which provide wholesale drinking water to Copperas Cove. The plan's projections are described and presented on page 14. New population projections were developed from the Initially Prepared 2021 Regional Water Plan population after meeting with representatives from Bell County WCID1 customers.

The region's requested projections resulted in an annual growth rate of 3.5% from 2030-2070 and an annual growth rate of 2.6% from 2070-2080. TWDB compared these growth rates to recent Census data for the City of Copperas Cove (1.75% annual growth from 2020-2022) and historical connection data from the TWDB WUS (2.63% annual growth from 2015-2019). The EA recommends using 2020 reported total connections, 15,464, multiplied by the Census PPHH for the City of Copperas Cove, 2.7, to estimate the 2020 baseline population of 41,753. Then the region's requested 2030 population is recommended. Due to the lack of supporting documentation for the projections methodology as to how the significant growth through the planning horizon will continue, the TWDB EA recommends lowering the growth rate over time. After 2030, the growth rate was revised to decline linearly so that the revised 2080 growth rate was equal to the TWDB draft WUG growth rate in 2080 to align with long-term growth trends, due to a lack of supporting documentation from the region about the long-term projected growth rates. Revised projections were split by county as requested by the Region.

Copperas Cove - whole WUG	**2030-2040**	**2040-2050**	**2050-2060**	**2060-2070**	**2070-2080**
Draft WUG Growth Rate	0.10%	-0.10%	-0.25%	-0.29%	-0.33%
Requested WUG Growth Rate	3.50%	3.50%	3.50%	3.50%	2.59%
Recommended WUG Growth Rate	2.89%	1.44%	0.85%	0.26%	-0.33%

TWDB draft population projections for Copperas Cove:

Region	**County Split**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
G	Copperas Cove – CORYELL	35,151	35,494	35,129	34,248	33,258	32,147
G	Copperas Cove - LAMPASAS	742	769	773	763	753	742
	Copperas Cove Total	**35,893**	**36,263**	**35,902**	**35,011**	**34,011**	**32,889**

Region G requested population projections for Copperas Cove:

Region	**County Split**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
G	Copperas Cove - CORYELL	48,375	67,875	95,394	134,081	188,760	243,424
G	Copperas Cove - LAMPASAS	1,429	2,378	3,705	5,709	8,427	11,160
	Copperas Cove Total	**49,804**	**70,253**	**99,099**	**139,790**	**197,187**	**254,584**

EA recommended population projections using adjusted 2020 baseline population, highest historical near-term growth, and linear adjustment to draft growth rate:

Region	**County Split**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
G	Copperas Cove - CORYELL	48,375	63,971	73,604	79,781	81,693	78,916
G	Copperas Cove - LAMPASAS	1,429	2,252	2,828	3,411	3,671	3,632
	Copperas Cove Total	**49,804**	**66,223**	**76,432**	**83,192**	**85,364**	**82,548**

Cleburne

The RWPG requested to use the 2022 WUS reported population, 31,999, as the baseline and 1.50% annual growth to project population through the planning horizon. The requested growth rate was based on the city's 2019 Water Supply and Reuse Integration Plan. TWDB reviewed the requested population baseline, the 2020 residential connections, 12,292, and the City of Cleburne Census PPHH, 2.74, and confirmed that the 2022 WUS reported population is an appropriate baseline for the requested projections. The requested near-term growth rate is consistent with recent growth in WUS historical connections (1.53% annual growth from 2016-2020) but without further clarification of the projection methodology, the requested long-term growth rates are not reflective of long-term demographic trends, thus the EA recommends using the requested 2030 population and the draft TWDB Johnson County growth rate to project subsequent decades. The 2030 requested projection is based on eight years of 1.50% annual growth from the 2022 WUS reported population. The draft county growth rate was used to project 2040-2080 instead of the draft WUG growth rate for Cleburne, because the county growth rate aligned more closely with the requested growth rate.

Comparison of the compounded annual growth rates per decade from 2020-2080 for Cleburne:

Cleburne	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Draft WUG Growth Rate	0.26%	0.29%	0.27%	0.17%	0.20%	0.22%
Draft County Growth Rate	1.33%	1.21%	1.08%	0.87%	0.90%	0.92%
Requested WUG Growth Rate	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Recommended WUG Growth Rate	1.50%	1.21%	1.08%	0.87%	0.90%	0.92%

Comparison of the Cleburne draft projections, RWPG requested, and TWDB EA recommended population projections:

Cleburne	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
TWDB Draft Population Projections	28,207	29,041	29,843	30,360	30,959	31,652
Region G Requested	36,047	41,834	48,550	56,344	65,390	75,888
EA Recommended	36,047	40,636	45,230	49,329	53,937	59,118

Files Valley WSC

The RWPG developed the requested 2030 projection using the TWDB Census-based WUG population estimate for the whole WUG (3,077) and a near-term growth rate of 4.2%, outlined in the revision memo on page 42. Draft growth rates were used to project subsequent decades. The EA does not recommend using the population for the entire WUG as a baseline for projections, however the increase in near-term growth is reasonable when compared to supplemental information provided which indicated a planned addition of 66 meters. The projections were revised using the Hill County portion of the WUG (2,368) as the baseline population, 4.2% annual growth to project the 2030 population, and TWDB draft WUG growth rates to project subsequent decades to align with long-term growth trends.

Comparison of the draft projections, RWPG requested, and TWDB EA recommended population projections for the Region G portion of the Files Valley WSC WUG:

Files Valley WSC	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**

TWDB Draft Population Projections	2,494	2,568	2,616	2,665	2,721	2,784
Region G Requested	4,643	4,779	4,871	4,964	5,069	5,187
EA Recommended	3,600	3,707	3,776	3,847	3,928	4,019

Georgetown

Region G submitted revision requests to the projections and provided several pieces of supporting documentation which appeared to conflict with one another. The highest projections are in a supporting document titled 'RAW water Projections' and match what Region G requested. Other supporting data included a Water Master Plan dated June 2022 and an Integrated Water Resources Plan (IWRP) from May 2023. Projections in Georgetown's IWRP from May 2023 on page 26 are more recent than the 'RAW water Projections' supporting documentation provided, which is dated April 2023, and are more recent than the Water Master Plan, therefore the TWDB EA recommends basing the revised projections for the 2026 RWP on Georgetown's IWRP. The projections in the IWRP were developed based on historical growth in connections using a 2.5 PPHH. The baseline 2020 number of connections aligns with the self-reported number of single-family connections on the 2020 WUS.

TWDB draft population projections for Georgetown:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Georgetown - BELL	3,044	3,228	3,368	3,446	3,535	3,636
G	Georgetown - WILLIAMSON	171,668	233,734	306,892	386,842	476,783	577,936
K	Georgetown - BURNET	392	433	468	506	550	599
	Georgetown Total	**175,104**	**237,395**	**310,728**	**390,794**	**480,868**	**582,171**

Region G requested population projections for Georgetown:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Georgetown - BELL	4,831	6,577	7,183	6,882	6,658	6,565
G	Georgetown - WILLIAMSON	272,462	476,246	654,502	772,543	898,034	1,043,487
K	Georgetown - BURNET	622	882	998	1,011	1,036	1,082
	Georgetown Total	**277,915**	**483,705**	**662,683**	**780,436**	**905,728**	**1,051,134**

EA recommended population projections using the projections developed in Georgetown's IWRP and the county proportions requested by Region G:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Georgetown - BELL	4,394	5,982	6,533	6,542	6,648	6,555
G	Georgetown - WILLIAMSON	247,802	433,143	595,264	734,394	896,686	1,041,920
K	Georgetown - BURNET	566	802	908	961	1,034	1,080
	Georgetown Total	**252,762**	**439,927**	**602,705**	**741,897**	**904,368**	**1,049,555**

Region G requested revisions to the baseline GPCD and plumbing code savings for Georgetown. The requested GPCD aligns with historical WUS data. The IWRP mentions a future GPCD of 150 but does not explain if this will be due to passive savings from plumbing code laws or active conservation (the latter should be included in strategies for the 2026 Regional Water Plans). Therefore, the EA recommends the revision to the baseline GPCD but not the plumbing code savings projections.

Georgetown Comparison GPCDs	Baseline GPCD	Projected Plumbing Code Savings					
		2030	2040	2050	2060	2070	2080
TWDB Draft Projections	197	4.31	4.74	4.74	4.74	4.74	4.74
Region G Requested	173	0.00	3.00	7.00	11.00	15.00	18.00
EA Recommended	173	4.31	4.74	4.74	4.74	4.74	4.74

Hillsboro

The RWPG provided documentation of near-term planned development within the WUG. Documentation supporting sustained growth above the TWDB draft county growth rates beyond the near-term planned development was not provided. The EA recommends using the requested 2030 population and the draft TWDB Hill County growth rate to project subsequent decades to align with long-term growth trends.

Comparison of the Hillsboro draft projections, RWPG requested, and TWDB EA recommended population projections:

Hillsboro	2030	2040	2050	2060	2070	2080
TWDB Draft Population Projections	8,288	8,534	8,691	8,857	9,044	9,253
Region G Requested	14,997	20,963	27,569	34,881	42,970	51,914
EA Recommended	14,997	15,442	15,726	16,026	16,364	16,742

Jarrell-Schwertner

The TWDB received an update to the requested population projection revisions on August 24th, 2023 for Jarrell Schwertner:

Requested Revisions to the Draft 2026 Municipal Population Projections per Amounts Identified by the Lone Star Regional Water Authority							
Water User Group	**County**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
Jarrell Schwertner CRU	Bell	2,730	14,496	26,162	37,828	37,910	40,000
	Williamson	65,322	70,725	73,829	77,081	80,485	84,051
Jarrell Schwertner Total		**68,052**	**85,221**	**99,991**	**114,909**	**118,395**	**124,051**

TWDB draft population projections for Jarrell Schwertner:

Region	County Split	2030	2040	2050	2060	2070	2080
G	Jarrell Schwertner – BELL	2,005	2,170	2,296	2,376	2,465	2,566

G	Jarrell Schwertner – WILLIAMSON	6,653	8,750	11,219	13,918	16,954	20,367
Jarrell Schwertner Total		**8,658**	**10,920**	**13,515**	**16,294**	**19,419**	**22,933**

Region G provided supplemental data including a 10-year Living Unit Equivalent (LUE) Technical Memo from the Lone Star Regional Water Authority outlining new development within the WUG's two PWS service areas. Table 1 on page 1 describes estimated new LUEs per year 2020-2030 with approximately 13,800 LUEs gained over next ten years. On page 5 of the Technical Memo, they provided a PDF map showing the location of new construction at various stages of development. In the original request packet, the Region also provided a table with new developments specific to Jarrel-Schwerner PWS documenting approximately 5,600 planned developments. The TWDB compared the approximate location of planned development to the WUG service area and assessed that high near-term development in the area is documented, meeting Exhibit C criteria, and the EA recommends the requested 2030 population for both County portions of the WUG.

The Region's requested annual growth rate for the Bell and Williamson County portions of the WUG vary. In Williamson County the annual growth declined to 0.80% in 2040 and then to 0.43% 2050-2080 which is reasonable compared to the TWDB draft growth rates for Williamson County. In Bell County the annual growth rate remains elevated until the 2060 decade, which is not reasonable compared to the TWDB draft growth rates for Bell County and not supported by the supplemental data provided representing near-term development.

Region G requested population projections:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Jarrell Schwertner - BELL	2,730	14,496	26,162	37,828	37,910	40,000
	Bell Portion Annual Growth		*18.17%*	*6.08%*	*3.76%*	*0.02%*	*0.54%*
G	Jarrell Schwertner - WILLIAMSON	65,322	70,725	73,829	77,081	80,485	84,051
	Williamson Portion Annual Growth		*0.80%*	*0.43%*	*0.43%*	*0.43%*	*0.43%*
Jarrell Schwertner Total		**68,052**	**85,221**	**99,991**	**114,909**	**118,395**	**124,051**

The EA recommends the projections for the Williamson County portion of the WUG and using the requested 2030 population and TWDB draft county growth rates in subsequent decades for the Bell County portion of the WUG.

EA recommended population projections with TWDB draft Bell County growth rate applied:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Jarrell Schwertner - BELL	2,730	3,005	3,215	3,354	3,510	3,685
	Bell Portion Annual Growth		*0.96%*	*0.68%*	*0.42%*	*0.46%*	*0.49%*
G	Jarrell Schwertner - WILLIAMSON	65,322	70,725	73,829	77,081	80,485	84,051

	Williamson Portion Annual Growth		*0.80%*	*0.43%*	*0.43%*	*0.43%*	*0.43%*
Jarrell Schwertner Total		**68,052**	**73,730**	**77,044**	**80,435**	**83,995**	**87,736**

Kempner WSC

Region G's request to revise the population projections is based on Kempner WSC's 2020 WUS reported population (20,055) and residential connections (5,688). This results in a 3.5 PPHH, which is much higher than the U.S. Census Bureau PPHH for Bell, Coryell, and Lampasas Counties (2.71, 2.75, and 2.68 respectively). Therefore, the EA recommends the draft projections rather than the requested revisions, however the revision request to the baseline GPCD is recommended by the EA based on 2012 water use for the WUG.

TWDB draft population projections for Kempner WSC:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Kempner WSC - BELL	2,224	2,438	2,601	2,707	2,826	2,961
G	Kempner WSC – CORYELL	4,308	4,350	4,305	4,197	4,075	3,938
G	Kempner WSC - LAMPASAS	10,482	10,860	10,908	10,782	10,641	10,479
K	Kempner WSC - BURNET	567	548	531	508	483	454
Kempner WSC Total		**17,581**	**18,196**	**18,345**	**18,194**	**18,025**	**17,832**

Region G requested population projections for Kempner WSC:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Kempner WSC - BELL	2,543	2,787	2,974	3,095	3,232	3,385
G	Kempner WSC - CORYELL	4,881	4,998	5,057	5,020	4,982	4,943
G	Kempner WSC - LAMPASAS	11,983	12,415	12,471	12,328	12,166	11,981
K	Kempner WSC - BURNET	648	627	608	580	553	519
Kempner WSC Total		**20,055**	**20,827**	**21,110**	**21,023**	**20,932**	**20,828**

EA recommended population projections for Kempner WSC:

Region	County Splits	2030	2040	2050	2060	2070	2080
G	Kempner WSC - BELL	2,224	2,438	2,601	2,707	2,826	2,961
G	Kempner WSC - CORYELL	4,308	4,350	4,305	4,197	4,075	3,938
G	Kempner WSC - LAMPASAS	10,482	10,860	10,908	10,782	10,641	10,479
K	Kempner WSC - BURNET	567	548	531	508	483	454
Kempner WSC Total		**17,581**	**18,196**	**18,345**	**18,194**	**18,025**	**17,832**

Lampasas

Region G provided supporting documentation that included an engineering report for the City of Lampasas. Page 12 of the report describes a 2% annual growth rate to project population through the year 2031. The Region's requested projections use a 1% annual growth rate across all decades in the

planning horizon, which differs from the methodology used to project growth in the supplemental data provided and is not consistent with the TWDB draft growth rate for Lampasas County. The TWDB compared the City of Lampasas water service boundary with the Census place boundary, and engineering report growth rates with historical WUS connections growth and TWDB historical population estimates. The EA recommends the region's requested 2030 population. After 2040, the growth rate was revised to decline linearly so that the revised 2080 growth rate was equal to the TWDB draft WUG growth rate in 2080 to align with the TWDB projected trend.

Comparison of the Lampasas draft projections, RWPG requested, and TWDB EA recommended population projections:

Lampasas	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
TWDB Draft Population Projections	8,233	8,526	8,566	8,469	8,361	8,240
Region G Requested	8,600	9,500	10,495	11,593	12,806	14,146
EA Recommended	8,600	9,500	10,390	11,152	11,468	11,297

Leander

Region G provided supporting documentation that included Leander's projected population and number of connections based on historical growth and a household multiplier of approximately 3 PPHH, which aligns with the U.S. Census Bureau's PPHH of 3.02 for the City of Leander. Also provided was Leander's Comprehensive Plan, which states on page 29 that, based on future land use, Leander will hit a buildout population of 225,000 likely around 2050. Page 48 of Leander's plan states that Leander serves water to the city limits and ETJ. Therefore, the Region G requested projection revisions are recommended by the EA for 2030-2050 and then the buildout population of 225,000 is recommended for the remaining decades. A projected GPCD of 124 is recommended to align with the utility's plan, therefore Region G's request for the projected plumbing code savings to be zero is all decades is recommended by the EA.

TWDB draft population projections for Leander:

Region	**County Splits**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
G	Leander - WILLIAMSON	84,741	119,989	161,576	206,991	258,107	315,610
K	Leander - TRAVIS	19,679	27,769	34,750	41,563	49,311	58,119
	Leander Total	**104,420**	**147,758**	**196,326**	**248,554**	**307,418**	**373,729**

Region G requested population projections for Leander:

Region	**County Splits**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
G	Leander - WILLIAMSON	137,045	173,735	185,078	196,856	208,617	220,564
K	Leander - TRAVIS	31,825	40,207	39,805	39,528	39,856	40,616
	Leander Total	**168,870**	**213,942**	**224,883**	**236,384**	**248,473**	**261,180**

EA recommended population projections for Leander:

Region	**County Splits**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
G	Leander - WILLIAMSON	137,045	173,735	185,078	187,376	188,909	190,010

K	Leander - TRAVIS	31,825	40,207	39,805	37,624	36,091	34,990
	Leander Total	**168,870**	**213,942**	**224,883**	**225,000**	**225,000**	**225,000**

EA recommended baseline GPCD and projected plumbing code savings for Leander:

Leander	**Baseline**	**Projected Plumbing Code Savings**					
Comparison	**GPCD**	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
TWDB Draft Projections	124	3.87	4.29	4.29	4.29	4.29	4.29
Region G Requested	124	0	0	0	0	0	0
EA Recommended	124	0	0	0	0	0	0

Corix Utilities Texas Inc

Region G provided documentation from the WUG listing the current number of meters plus LUEs to estimate the number of connections by 2030. TWDB confirmed that the current number of meters aligned with reported data on the TWDB Water Use Survey. The WUG requested a 3.5 PPHH multiplier be applied to estimate the 2030 population, which the EA does not recommend. Instead, a county-specific PPHH multiplier from the U.S. Census Bureau was applied to estimate the 2030 population and the TWDB projected growth rates, as requested by Region G, were applied to project 2040-2080.

A baseline GPCD revision of 170 was requested by Region G and is recommended by the TWDB EA.

Estimated Corix Utilities Texas Inc 2030 population based on 2030 meter counts provided by the region and county-specific PPHH multipliers from the U.S. Census Bureau:

County Splits for Corix Utilities Texas Inc	**2030 Meter Count**	**County-level PPHH**	**2030 Population**
LAMPASAS	2,072	2.68	217
WASHINGTON	1,405	2.40	4,450

Region G requested revisions to the population projections for Corix Utilities Texas Inc:

County Splits for Corix Utilities Texas Inc	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**	**GPCD**
LAMPASAS	7,252	7,514	7,550	7,463	7,365	7,256	170
WASHINGTON	4,918	5,073	5,233	5,397	5,566	5,740	170

EA recommended population projections for Corix Utilities Texas Inc:

County Splits for Corix Utilities Inc	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**	**GPCD**
LAMPASAS	5,553	5,754	5,718	5,714	5,639	5,555	170
WASHINGTON	3,372	3,478	3,588	3,700	3,816	3,936	170

Taylor

Region G provided documentation including the City of Taylor's Envision Taylor Comprehensive Plan. The description of the plan projections on page 34 indicated that the projections were developed using

growth rates from the Capital Area Metropolitan Planning Organization (CAMPO). CAMPO growth rates for Taylor are recommended after reviewing the projection methodology available on the CAMPO45 plan website, however, the CAMPO plan only continues to year 2045 and is not a reasonable indicator of subsequent decades. For this reason, and because it is stated in the Envision Taylor plan on page 34 that "Envision Taylor is recommending that population projections rely more heavily on regional trends than historical population trends," the draft growth rate for Williamson County was used to project 2060-2080 to align with long-term growth trends. While multiple 2020 populations were listed in the comprehensive plan, it was unclear what the region used as a baseline, therefore, the requested 2030 growth rate reflects the TWDB population estimate as the 2020 baseline. The draft county growth rate was used instead of the draft WUG growth rate for Taylor because the county growth rate aligned more closely with the region-requested growth rate.

Comparison of the compounded annual growth rates per decade from 2020-2080 for Taylor:

Taylor	2030	2040	2050	2060	2070	2080
Draft WUG Growth Rate	0.57%	0.73%	0.77%	0.80%	0.82%	0.84%
Draft County Growth Rate	1.56%	2.72%	2.47%	2.15%	1.97%	1.83%
Requested WUG Growth Rate	5.72%	3.70%	3.00%	3.00%	3.00%	3.00%
Recommended WUG Growth Rate	5.72%	3.70%	3.00%	2.15%	1.97%	1.83%

Comparison of the Taylor draft projections, RWPG requested, and TWDB EA recommended population projections:

Taylor	2030	2040	2050	2060	2070	2080
TWDB Draft Population Projections	16,686	17,940	19,378	20,982	22,762	24,748
Region G Requested	27,500	39,552	53,155	71,435	96,003	129,020
EA Recommended	27,500	39,552	53,155	65,755	79,921	95,847

The requested GPCD of 120 was compared to historical WUS data. The EA recommends the region's GPCD request because it aligns with recent trends reported to WUS. The PC savings revision was not recommended based on a lack of supporting data per Exhibit C requirements.

Taylor	Baseline	Projected Plumbing Code Savings					
Comparison	GPCD	2030	2040	2050	2060	2070	2080
TWDB Draft Projections	148	4.76	5.28	5.28	5.28	5.28	5.28
Region G Requested	120	0.00	0.00	0.00	0.00	0.00	0.00
EA Recommended	120	4.76	5.28	5.28	5.28	5.28	5.28

County-Other, Williamson

Region G requested revisions to the multiple WUGs within Williamson County but did not consider shifting population from County-Other to the WUGs. Without any other supporting documentation, the TWDB recommends revisions to the County-Other, Williamson population projections, using a percentage of the county total methodology. Region G requested an average of 10.8% of the requested county total population be in the County-Other WUG in each decade of the planning horizon, thus the TWDB recommends revising the county-other population to no more than 10.8% of the draft county

total in each planning decade. The recommended county total acknowledges the undercount analysis for the county and population increases to other WUGs within the county, while also maintaining a comparable county total to the draft projections, which were based on the Texas Demographic Center's cohort component model. The revised population projections align with historical county-level population trends.

Draft County-Other, Williamson WUG population as a percentage of the draft county total population:

Comparison	2030	2040	2050	2060	2070	2080
TWDB Draft Projections – Williamson County Total	710,743	929,082	1,186,115	1,467,280	1,783,380	2,138,756
TWDB Draft Projections – County-Other, Williamson	53,066	105,721	165,919	228,364	310,107	415,529
Percentage County-Other of County Total	7.47%	11.38%	13.99%	15.56%	17.39%	19.43%

RWPG requested County-Other, Williamson WUG population as a percentage of the requested county total population and average percentage of county-other of county total population:

Comparison	2030	2040	2050	2060	2070	2080	Average Percent
RWPG Request – Williamson County Total	946,563	1,333,251	1,684,915	1,965,125	2,290,097	2,682,269	
RWPG Request – County-Other, Williamson	53,875	107,334	168,451	231,848	314,838	421,868	
Percentage County-Other of County Total	5.7%	8.1%	10.0%	11.8%	13.7%	15.7%	10.8%

The TWDB EA recommends revising the County-Other, Williamson population to be no more than 10.8% of the draft county total population. This recommendation acknowledges the region's request to increase the population within other WUGs in the county while maintaining comparable county total populations.

Comparison	2030	2040	2050	2060	2070	2080
TWDB Draft Projections – Williamson County Total	710,743	929,082	1,186,115	1,467,280	1,783,380	2,138,756
Apply the region's average requested percentage county-other population of county total	7.6%	10.8%	10.8%	10.8%	10.8%	10.8%
Recommended County-Other, Williamson Population	53,875	100,341	128,100	158,466	192,605	230,986

Comparison of the draft population projections, RWPG requested projections, and the TWDB EA recommended population projections for County-Other, Williamson WUG:

County-Other, Williamson	2030	2040	2050	2060	2070	2080
TWDB Draft Projections	53,066	105,721	165,919	228,364	310,107	415,529
Region G Requested	53,875	107,334	168,451	231,848	314,838	421,868

EA Recommended	53,875	100,341	128,100	158,466	192,605	230,986

Comparison of the draft population projections, RWPG requested projections, and the TWDB EA recommended population projections for Williamson County:

Williamson County	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
TWDB Draft Population Projections (1.0 migration scenario)	710,743	929,082	1,186,115	1,467,280	1,783,380	2,138,756
Region G Requested	946,563	1,333,251	1,684,915	1,965,125	2,290,097	2,682,269
EA Recommended	921,903	1,283,155	1,585,326	1,838,434	2,130,726	2,426,093

Venus

The Region submitted a copy of the technical consultant's Municipal Population, Water Use, and Supply Survey sent to the City of Venus as supporting documentation for their revision request. On page 11 of the survey, the city stated that three Municipal Utility Districts (MUDs) currently under development, but also noted that "there is not documentation currently supporting this statement." No additional documentation meeting Exhibit C was provided. Therefore, the EA recommends the draft projections rather than the requested revisions.

Comparison of the Venus draft projections, RWPG requested, and TWDB EA recommended population projections:

Comparison	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**
TWDB Draft Population Projections	2,416	2,266	2,121	1,967	1,824	1,691
Region G Requested	37,789	35,443	33,175	30,766	28,529	26,449
EA Recommended	2,416	2,266	2,121	1,967	1,824	1,691

West

The Region requested to use 2020 WUS connections, 987, a 3.1 PPHH, and 2% annual growth to project the 2030 population. Subsequent decades increased at 0.32% annually. According to the Census, the City of West declined from 2010-2020, even if considering a potential 2% adjustment in 2020 to account for potential undercount. However, recently the city population has increased by 0.87% annually according to Census estimates 2020-2022. Recent WUS data does not indicate a change in residential connections. The EA recommends using 0.87% near-term growth 2020-2030, and the McLennan Census PPHH of 2.64 to project 2030 population and 0.32% annual growth in subsequent decades. County-Other, McLennan was adjusted to maintain the draft county total population, as requested by the region. Please see accompanying spreadsheet for more information.

Comparison of the West draft projections, RWPG requested, and TWDB EA recommended population projections:

West	2030	2040	2050	2060	2070	2080
TWDB Draft Population Projections	1,975	1,775	1,607	1,355	1,083	787
Region G Requested	3,858	3,983	4,112	4,245	4,383	4,525
EA Recommended	2,834	2,926	3,021	3,119	3,220	3,324

East Crawford - GPCD

The Region requested revisions to the baseline GPCD and population for East Crawford. The EA does not recommend the requested GPCD of 157 based on inconsistency with historical data and lack of supplemental documentation. However, the requested population revision is recommended as requested.

Year	WUS Net Use (acft)	TWDB Pop Estimate	GPCD
2010	229	683	299
2011	315	687	409
2012	304	691	393
2013	254	695	327
2014	253	699	323
2015	233	703	296
2016	263	707	332
2017	257	711	322
2018	236	715	295
2019	235	719	292
2020	236	726	291
Region Requested baseline GPCD			157
EA Recommended baseline GPCD			304

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APPENDIX J

MODEL DROUGHT AND WATER CONSERVATION PLANS

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Appendix J: Model Drought and Water Conservation Plans

J-1. City of Waco Water Conservation and Drought Contingency Plan

J-2. City of Thrall Drought Contingency Plan

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CITY OF WACO

Developed to meet requirements outlined in 30 TAC § 288.2 and § 288.5

UTILITY PROFILE & WATER CONSERVATION PLAN

FOR MUNCIPAL AND WHOLESALE WATER USE

May 1, 2024

Water Utility Services
City of Waco, Texas

PWS# TX155008

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CITY OF WACO WATER CONSERVATION PLAN FOR MUNICIPAL & WHOLESALE WATER USE

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APPENDIX A 29

1. INTRODUCTION AND OBJECTIVES

Water supply has always been a key issue in the development of Texas. In recent years, the increasing population and economic development of Central Texas have led to growing demands for water supplies. At the same time, local and less expensive sources of water supply are largely already developed. Additional supplies to meet future demands will be expensive and difficult to secure. Severe drought conditions in the recent past have highlighted the importance of the efficient use of our existing supplies to make them last as long as possible. Extending current supplies will delay the need for new supplies, minimize the environmental impacts associated with developing new supplies, and delay the high cost of additional water supply development.

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (TCEQ) has developed guidelines and requirements governing the development of water conservation plans. The City of Waco has developed this Water Conservation Plan in accordance with TCEQ guidelines and requirements. This Water Conservation Plan replaces the previous plan dated April 2019.

The City of Waco also recognizes that, in order to achieve its goals of maximizing water conservation and efficiency, it is necessary to develop and implement a water conservation plan that goes beyond basic compliance with TCEQ guidelines and requirements. This Plan reflects the City of Waco's commitment to enhanced water conservation and efficiency strategies.

The objectives of this Water Conservation Plan are as follows:

- To reduce water consumption from the levels that would prevail without conservation efforts.
- To reduce the loss and waste of water.
- To improve efficiency in the use of water.
- To encourage efficient outdoor water use.
- To document the level of recycling and reuse in the water supply.
- To extend the life of current water supplies by reducing the rate of growth in demand.

The City's plan will achieve significant conservation savings to help extend the life of existing supplies without burdening the customer with unnecessary additional costs.

2. REGULATORY BASIS FOR WATER CONSERVATION PLAN

2.1 TCEQ RULES GOVERNING CONSERVATION PLANS

The TCEQ rules governing development of water conservation plans for public water suppliers are contained in Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2 of the Texas Administrative Code, which is included in Appendix B. For the purpose of these rules, a water conservation plan is defined as "A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water." The elements in the TCEQ water conservation rules covered in this conservation plan are listed below.

Minimum Conservation Plan Requirements

The minimum requirements in the Texas Administrative Code for Water Conservation Plans for Public Water Suppliers are covered in this report as follows:

- 288.2(a)(1)(A) – Utility Profiles – Section 4
- 288.2(a)(1)(B) – Record Management System – Section 12
- 288.2(a)(1)(C) – Specific, Quantified Goals – Section 5.3
- 288.2(a)(1)(D) – Accurate Metering – Section 14
- 288.2(a)(1)(E) – Universal Metering – Section 14
- 288.2(a)(1)(F) – Determination and Control of Water Loss – Section 15
- 288.2(a)(1)(G) – Public Education and Information Program – Section 9
- 288.2(a)(1)(H) – Non-Promotional Water Rate Structure – Section 18
- 288.2(a)(1)(I) – Reservoir System Operation Plan – Section 19
- 288.2(a)(1)(J) – Means of Implementation and Enforcement – Section 21
- 288.2(a)(1)(K) – Coordination with Regional Water Planning Groups – Section 10 and Section V
- 288.2(c) – Review and Update of Plan – Section 22
    - Conservation Additional Requirements (Population over 5,000) Section 11.6
    - The Texas Administrative Code includes additional requirements for water conservation plans for drinking water supplies serving a population over 5,000:
        - 288.2(a)(2)(A) – Leak Detection, Repair, and Water Loss Accounting – Section 16
        - 288.2(a)(2)(B) – Requirement for Water Conservation Plans by Wholesale Customers – Section 2.3

Additional Conservation Strategies

The Texas Administrative Code lists additional conservation strategies, which may be adopted by suppliers but are not required. Additional strategies adopted by the City of Waco include the following:

- 288.2(a)(3)(A) – Conservation Oriented Water Rates –Section 18 and Conservation Rates in Drought Contingency and Emergency Water Management Plan
- 288.2(a)(3)(B) – Ordinances, Plumbing Codes or Rules on Water-Conserving Fixtures – Section 11.1 and Section 11.6
- 288.2(a)(3)(C) – Replacement of Retrofit of Water-Conserving Fixtures – Section 11.6
- 288.2(a)(3)(D) – Reuse and Recycling of Wastewater – Section 7
- 288.2(a)(3)(F) – Considerations for Landscape Water Management Regulations – Sections 11.2, 11.3, 11.4, Stage 1, 2, & 3 Responses, Section XI

In addition to being a public water supplier under TCEQ rules, the City of Waco also acts as a wholesale provider to twelve current and future wholesale customers and 2 water exchange customers; thus, the TCEQ water conservation rules for wholesale providers are also addressed.

The TCEQ rules governing development of water conservation plans for wholesale water suppliers are contained in Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.5 of the Texas Administrative Code, which is included in Appendix B. The elements in the TCEQ water conservation rules for wholesale water suppliers addressed in this Water Conservation Plan are listed below.

Minimum Conservation Plan Requirements for Wholesale Water Suppliers

The minimum requirements in the Texas Administrative Code for water conservation plans for wholesale water suppliers are covered in this Plan as follows:

- 288.5(1)(A) – Description of Service Area – Sections 4 & 22
- 288.5(1)(B) – Specific, Quantified Goals – Sections 4.16 & 11
- 288.5(1)(C) – Measure and Account for Water Diverted – Section 13
- 288.5(1)(D) – Monitoring and Record Management System – Section 12
- 288.5(1)(E) – Program of Metering and Leak Detection and Repair – Section 16
- 288.5(1)(F) – Requirement for Water Conservation Plans by Wholesale Customers – Section 2.3
- 288.5(1)(G) – Reservoir System Operation Plan – Section 19
- 288.5(1)(H) – Means of Implementation and Enforcement – Section 21
- 288.5(1)(I) – Documentation of Coordination with Regional Water Planning Groups – Section 10 & Section V
- 288.5(3) – Review and Update of Plan – Section 22
    - Additional Conservation Strategies for Wholesale Water Suppliers Section 5.2
    - The Texas Administrative Code lists additional water conservation strategies that can be adopted by a wholesale supplier but are not required. Additional strategies adopted by the City of Waco include the following:
        - 288.5(2)(C) – Program for Reuse and/or Recycling – Section 7
        - 288.5(2)(D) – Other Measures - Section 9 (public education), and Sections 11.2, 11.3, 11.4, Stage 1, 2, & 3 Responses. Section XI (landscape water management measures)

2.2 GUIDANCE AND METHODOLOGY FOR REPORTING ON WATER CONSERVATION AND WATER USE

In addition to TCEQ rules regarding water conservation, this Plan also incorporates elements of the Guidance and Methodology for Reporting on Water Conservation and Water Use developed by TWDB and TCEQ, in consultation with the Water Conservation Advisory Council (the "Guidance"). The Guidance was developed in response to a charge by the 82nd Texas Legislature to develop water use and calculation methodology and guidance for preparation of water use reports and water conservation plans in accordance with TCEQ rules. The City of Waco has considered elements of the Guidance in preparation of this Plan.

2.3 TEXAS WATER DEVELOPMENT BOARD WATER CONSERVATION PLANNING TOOL

The TWDB has developed a Municipal Water Conservation Planning Tool to be utilized by utilities to evaluate various best management practices. The tool is pre-loaded with data submitted by utilities as part of the water use surveys and has a library of best management practices with water savings and associated cost. The tool was released on December 14, 2018, and was available for the development of this Water Conservation Plan. The City of Waco has utilized the tool in development of the per capita goals in this Plan and for comparing cost and savings. In addition, Waco encourages each of its Wholesale Customers to utilize the tool, to the extent practical, for water conservation planning.

3. DEFINITIONS

For purposes of this Plan, the following definitions will apply:

Accounts – all Single Family and all Non-Single Family Accounts, collectively

Aesthetic water use – Water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

Athletic Field - A developed recreation area that may contain a playground as well as fields for competitive sports such as baseball, softball, football, or soccer.

Commercial and institutional water use – Water use, which is integral to the operations of commercial and non-profit establishments, governmental entities, retail establishments, hotels and motels, restaurants, and office buildings.

Conservation – A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water.

Customer – Any person, company, or organization using water supplied by the City of Waco.

Domestic water use – water for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Even number address – Street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

Golf course - An area of land laid out for golf with a series of 9 or 18 holes each including tees, fairways, and putting greens and often one or more natural or artificial hazards.

Grey water – Wastewater without fecal contamination generated primarily in households or office buildings from sinks, showers, baths, washing machines or dishwashers. Wastewater from toilets is NOT grey water.

Industrial water use – The use of water in processes designed to convert materials of lower value into forms having greater usability and value.

Landscape irrigation use – Water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, rights-of-way, and medians.

Mean Sea Level (MSL) – The level of the ocean's surface, especially the level halfway between high and low tide, used as a standard in recognizing land elevation or sea depths.

Non-essential water use – Water uses that are neither essential nor required for the protection of public, health, safety, and welfare, including:

- Irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;

- Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle;
- Use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard surface areas;
- Use of water to wash down buildings or surfaces for purposes other than immediate fire protection;
- Flushing gutters;
- Permitting water to run or accumulate in any gutter or street.
- Use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi type pools;
- Use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
- Failure to repair a controllable leak(s) with a reasonable period after having been given notice directing the repair of such leak(s); and
- Use of water from hydrants for construction purposes or any other purposes other than firefighting or system maintenance.

Non-Single Family Account – water service for any category besides a Single Family Residence, such as water service to Multi-Family Residence, Industrial, Commercial, Institutional, and/or Agricultural.

Odd numbered address – Street addresses, box numbers, or rural postal route number ending is 1, 3, 5, 7, or 9.

Single Family Residence – A house, or dwelling unit with 4 or less housing units used as a residence with one family housed in each unit.

Variance – Request for additional consideration to allow for more days to water based on new plants, or other circumstances.

Water shortage emergency – A condition in which the ordinary water demands and requirements of the City's wholesale and retail customers cannot be met without resulting in insufficient water for human consumption, public health (sanitation), and fire protection. A water shortage emergency may be limited geographically or temporally.

4. DESCRIPTION OF SERVICE AREA AND UTILITY PROFILE

The City of Waco provides retail water and sewer service to approximately 145,000 people and wholesale water service to 12 wholesale and 2 water exchange customers listed below. Service through wholesale customers account for approximately 60,000 people. In total, Waco provides water directly or indirectly to 205,000 people in McLennan County. Figure 4.1 shows Waco's retail water service area. Waco's current wholesale customers include:

Bold Springs Water Supply Corporation
Central Bosque Water Supply Corporation
City of Bellmead
City of Hewitt
City of Lacy Lakeview
City of McGregor (exchange)
City of Robinson
City of West
City of Woodway (exchange)
FHLM Regional Water Supply Corporation
Hilltop Water Supply Corporation
Leroy Tours Gerald Water Supply Corporation
Ross Water Supply Corporation
Texas State Technical College

Service area size was determined through Geographic Information System process to identify served areas. The historical and current served population is based on the City's Planning Department's estimate of the City's population and the population of the wholesale customers' service area. This estimate is updated annually and is derived from the United Status Census Bureau. Projected population is estimated by using growth rate projections for total served water population in 2023 and forward. The same growth rate is applied to retail served water population and total served wastewater population.

Appendix A includes a map showing Waco's water retail service area, wholesale service area, and Certificate of Convenience and Necessity (CCN) area.

4.1 HISTORICAL POPULATION

Year	Historical Population Served by Retail Water Service	Historical Population Served by Wholesale Water Service	Historical Population Served by Wastewater Service
2019	137,995	56,650	137,995
2020	139,954	57,222	139,954
2021	141,941	57,794	141,941
2022	143,956	58,371	143,956
2023	145,999	60,000	145,999

Projected Populations

Year	Projected Population Served by Retail Water Service	Projected Population Served by Wholesale Water Service	Projected Population Served by Wastewater Service
2025	148,343	61,206	148,343
2030	155,908	64,326	155,908
2040	172,215	71,051	172,215
2050	190,226	78,971	190,226
2060	210,123	87,227	210,123

Population and projected populations calculated using U.S. Census data and assuming 1% growth annually, which has been approximate growth for the previous 30 years.

4.2 WATER SUPPLY SOURCE

Water rights held by the City of Waco total 28,498,221,643 gallons. Of those gallons 90% of the water rights are in Lake Waco, 9% in the Brazos River and 1% in the Trinity Aquifer. The City of Waco has a water swap contract with the cities of McGregor and Woodway for an additional 365,000,000 gallons of water from Lake Belton.

Water Supply Source	Source Type	Total Gallons
Lake Waco	Surface	25,700,000,000
Brazos River	Surface	2,509,052,700
Trinity Aquifer	Ground	289,168,943

For more than 100 years, the City of Waco has been committed to providing clean, safe, reliable, high quality, sustainable, and affordable water to its customers. The City owns and operates three major surface water treatment plants (WTPs).

The Dissolved Air Floatation (DAF) plant was built to provide pretreatment to contain taste and odor issues. These issues are caused by the phosphorus loading in the North Bosque River from the dairies and waste application fields in the North Bosque River watershed that then deposit into Lake Waco. The DAF draws water from Lake Waco, removes the majority of the organics, and disinfects with Ozone prior to pumping the now clarified water to the Mt. Carmel and Riverside conventional treatment plants. The DAF has the capability to treat 90 million gallons a day (MGD), but the water must run through the two conventional treatments for filtration and final disinfection before it is delivered to the community.

As of 2024, the total treatment capacity is 84 million gallons per day (MGD) with water storage capacity of 43,100,000 gallons. The water system is comprised of over 1,150 miles of water mains and 6 major pressure planes (zones). A breakdown of treatment capacity by plant and storage capacity is provided below.

Treatment Plant	Water Type	Million Gallons Per Day
Dissolved Air Flotation Plant	Pretreatment (nonpotable)	90,000,000
Mt. Carmel Water Treatment Plant	Potable	51,600,000
Riverside Water Treatment Plant	Potable	32,400,000
TOTAL	Potable Only	84,000,000

Water Storages	Storage Capacity
Storage at Treatment Plants	11,500,000
Elevated Water Storage	21,000,000
Ground Storage	10,600,000
TOTAL	43,100,000

Year	Self-Supplied Water in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2019	11,239,392,032	0	1,026,375,700	10,213,016,332	201
2020	11,093,679,037	488,000	996,938,600	10,096,740,437	196
2021	11,125,878,595	0	969,068,600	10,156,809,995	196
2022	10,882,399,533	0	1,113,570,800	9,768,828,733	186
2023	11,146,240,700	0	1,108,320,700	10,026,646,900	168
Historic 5 Yr. Average	11,097,517,979	97,600	1,042,854,880	10,052,408,479	189

Historical water use data reflects treated water, determined from master meter at the point where treated water leaves the treatment plant and enters the distribution system.

4.3 PROJECTED DEMANDS

Projected water supply demands for the City's service area over the next ten years are shown in the table below and the chart. They are based on population trends, historical water use, economic growth, and expected conservation savings.

Projected diversions were estimated using baseline future water demands and estimated water planning strategy savings developed as part of the Integrated Water Resource Plan (IWRP). The IWRP looks at water supplies and demands over a 100-year time frame. The baseline future water demands were developed from an average of 2019, 2020, 2021, and 2022 water consumption and represent future conditions based on demographic projections of populations, housing, and employment in Waco, along with passive conservation. A climate adjustment factor was applied to the baseline future water demands.

Year	Population	Water Demand (gallons)
2025	209,549	11,129,678,648
2026	211,644	11,174,197,362
2027	213,860	11,218,894,151
2028	215,998	11,263,769,727
2029	218,157	11,308,824,805
2030	220,338	11,354,060,104
2031	222,541	11,399,476,344
2032	224,766	11,445,074,249
2033	227,013	11,490,854,545
2034	229,283	11,536,817,963

Projected populations calculated using U.S. Census data and assuming 1% growth annually, which has been approximate growth for the previous 30 years. Projected water demands calculated using 0.4% increase annually which is slightly higher than historical trends to account for anticipated economic growth in the downtown/river area.

4.4 WATER CUSTOMERS

Water Use Category	Active Retail Connections			
	Metered	Unmetered	Total Connections	% of Total Connections
Residential - Single Family	44,160		44,160	87%
Residential - Multi Family	1,033		1,033	2%
Industrial	74		74	0.14%
Commercial	5,531		5,531	11%
Institutional	0		0	0%
Agricultural	0		0	0%
TOTAL	50,798		50,798	100%

Connections

Water Use Category	Net number of New Retail Connections				
	2019	2020	2021	2022	2023
Residential - Single Family	588	814	1,925	1,103	646
Residential - Multi Family	1	3	51	7	71
Industrial	0	36	0	0	4
Commercial	0	0	0	0	102
Institutional	0	0	0	0	

Agricultural	0	0	0	0	
TOTAL	589	817	1,925	1,110	823

4.5 HIGH-VOLUME RETAIL CUSTOMERS

Retail Customer	Water Use Category	Annual Water Use	Treated or Raw
City of Waco Cameron Park Zoo	Commercial	586,267,200	Treated & Pretreated
City of Woodway	Commercial	453,269,000	Treated
Baylor University	Commercial	357,230,700	Treated
Refresco Beverages US, Inc	Industrial	336,730,600	Treated
Pilgrim's Pride Industries	Industrial	257,105,500	Treated

4.6 HISTORIC WATER USE

Water Use Category	Total Gallons of Retail Water				
	2019	2020	2021	2022	2023
Residential - Single Family	3,276,818,590	3,345,222,800	3,104,373,100	3,702,435,700	3,382,987,700
Residential - Multi Family	811,958,800	814,235,600	855,195,800	958,425,500	946,732,100
Industrial	1,168,073,540	882,039,700	1,268,453,600	1,188,087,400	1,072,348,900
Commercial	4,046,754,870	3,593,349,500	3,288,717,600	3,552,541,300	3,627,896,400
Institutional					
Agricultural					
TOTAL	9,303,306,800	8,634,847,600	8,516,740,100	9,401,489,900	9,029,965,100

4.7 SUMMARY OF HISTORIC WATER USE

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	3,362,367.578	87%	38%
Residential - Multi-Family	877,309,560	2%	10%
Industrial	1,115,800,628	0.14%	12%
Commercial	3,621,851,934	11%	40%
Institutional	0	0	0
Agricultural	0	0	0

4.8 SEASONAL WATER USE

Month	Total Gallons of Treated Retail Water				
	2019	2020	2021	2022	2023
January	667,446,200	573,022,900	603,424,634	709,605,550	700,388,076
February	689,037,700	535,930,800	642,567,674	636,343,342	628,371,580
March	614,819,400	203,489,900	694,697,942	739,241,687	765,228,015
April	651,441,100	506,563,300	738,854,525	812,864,544	707,184,662
May	575,257,000	580,121,700	702,947,910	900,750,676	753,951,235
June	744,226,100	757,090,700	813,238,340	1,129,217,047	986,701,100
July	647,205,000	961,073,500	869,855,430	1,255,467,471	1,128,930,400
August	1,154,988,900	1,064,890,700	939,710,834	1,084,131,405	1,180,704,600
September	1,182,494,300	1,024,670,400	984,574,905	961,615,300	971,082,700
October	969,165,800	865,357,100	866,986,457	956,940,913	895,063,500
November	789,012,700	724,983,600	764,060,940	732,668,411	742,690,000
December	747,182,600	572,152,900	746,301,326	721,371,009	660,768,000
TOTAL	9,432,276,800	8,369,347,500	8,679,566,067	10,640,217,355	10,121,063,868

4.9 SEASONAL RAW WATER USE

Month	Total Gallons of Raw Retail Water				
	2019	2020	2021	2022	2023
January	35,417,000	48,862,000	18,788,000	28,507,500	13,942,000
February	17,609,000	16,100,000	5,225,100	37,703,200	18,482,900
March	13,156,000	12,446,000	2,804,900	9,809,000	16,948,600
April	42,309,000	41,075,000	15,332,300	35,585,800	24,252,400
May	14,780,990	14,780,990	17,448,600	35,985,100	70,747,000
June	53,858,000	47,739,000	14,958,100	40,585,000	34,591,000
July	53,247,000	57,217,000	39,178,000	35,504,500	27,390,000
August	52,784,000	56,694,000	37,211,500	26,267,000	21,638,000
September	50,866,000	25,701,000	40,778,500	36,626,700	27,480,000
October	46,686,000	10,085,000	33,442,000	31,099,400	8,577,000
November	56,457,000	10,541,000	37,320,400	34,346,000	10,784,000
December	48,689,000	9,360,000	39,520,600	30,087,300	16,821,900
TOTAL	485,858,990	350,600,990	302,008,000	382,106,500	291,654,800

4.10 SEASONAL VS. ANNUAL WATER USE

Water Use	Seasonal and Annual Water Use					5 Year Average in Gallons
	2019	2020	2021	2022	2023	
Summer Retail (Treated + Raw)	2,706,309,000	2,944,704,900	2,714,152,204	3,574,172,423	3,379,955,100	3,063,258,725
TOTAL Retail (Treated +Raw)	9,810,940,174	8,719,948,490	8,981,574,067	11,022,323,855	10,412,718,668	9,810,940,174

4.11 WATER LOSS

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss %
2019	865,078,857	13	9.0%
2020	281,873,163	12	3.0%
2021	159,901,557	3	1.82%
2022	229,693,724	4	2.37%
2023	81,764,451	2	0.8%
5-year average	354,725,123	7	3%

4.12 PEAK WATER USE

Year	Average Daily use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2019	26,453,000	47,996,000	1.81
2020	26,350,000	45,742,400	1.74
2021	23,333,534	37,603,300	1.61
2022	25,757,506	46,911,400	1.82
2023	27,667,425	43,834,455	1.58

4.13 HISTORIC GPCD

Water Use Category	Residential GPCD				
	2019	2020	2021	2022	2023
Total System GPCD	201	196	196	186	168
Residential – Single & Multi-Family	65	66	88	75	81

4.14 PROJECTED GPCD

	5-year goal	10-year goal
TOTAL GPCD	196	176
Water Loss Percentage	5%	4%

5. WHOLESALE CUSTOMERS

All water delivered to wholesale contract customers is treated water. The following is a list of City wholesale customers, the contracted amount of potable water, and their annual usage for contract year 2023.

5.1 WHOLESALE WATER CUSTOMERS & WATER USAGE

Wholesale Customer	Contracted Amount (acre feet)	Water Delivered in C/Y 23 (acre feet)
City of Bellmead	1,344	0
City of Hewitt		293
City of Lacy Lakeview		
City of Robinson	561	509
City of West		112
Bold Springs WSC	560	.46

Central Bosque WSC	112	112
FHLM (Axtell & EOL)	336	0
Hilltop WSC	97	0
LTG WSC	224	0
Ross WSC	336	0
TSTC	n/a	153
TOTAL	7,994	1,899.46

Water Exchange Customers & Water Usage

	Contracted Amount	Water Delivered by Waco or Received by Waco in Acre Feet
City of McGregor	1,120	164.14
City of Woodway	1,120	1,487
TOTAL	2,240	1,651.14

5.2 WHOLESALE CONTRACT PROVISIONS

All wholesale water contracts entered, renewed, or extended after adoption of this Plan will include a provision that, in the event of a shortage of water resulting from drought or other circumstances where water must be restricted, the water to be distributed will be divided in accordance with Texas Water Code §11.039. Additionally, all wholesale water contracts entered, renewed, or extended after adoption of this Plan, will adopt a Conservation Plan and Drought Contingency and Water Emergency Management Plan that mirrors the provisions or requirements of the City of Waco's Plan, each time it is amended, or a Plan that is more stringent. If said wholesale customer intends to resell the water, then said contract for water resale must require any successive water customer to implement water conservation measures in accordance with the City of Waco's Plan.

All wholesale customers are metered, and the meters are tested twice annually for accuracy. Each customer is billed monthly.

5.3 WHOLESALE CUSTOMER SERVICE AREA SPECIFIC, QUANTIFIED 5 & 10 YEAR TARGETS FOR WATER SAVINGS

	5year goal	10year goal
TOTAL GPCD	196	176
Water Loss Percentage	6%	5%

6. RAW WATER CONTRACT PROVISIONS

All raw water contracts entered, renewed, or extended after adoption of this Plan, will include a provision that in the event of a shortage of water resulting from drought or other circumstances where water must be restricted, the City Manager or designee may reduce or suspend the taking of raw water by the contract holder.

All raw water customers are metered. The meters are tested annually for accuracy.

6.1 RAW WATER CONTRACTS

Customer	Contract Amount (in acre feet)
Bear Ridge Golf Management, LLC	250
Lake Waco Golf Course, LLC	100
Peavy, Lanny	6
Ramsower, Regan	6
Ridgewood Country Club	350

Total Under Contract	712
Total Available for Contract	188

7. WASTEWATER SYSTEM

The design capacity of the City of Waco wastewater treatment plants is currently 46.5 million gallons per day (MGD).

The City has two wastewater treatment plants that provide wastewater treatment for not only Waco customers but to eight cities surrounding Waco. The Central Wastewater Treatment Plant (CWTP) has a capacity of 45MGD and provides wastewater treatment to the cities of Waco, Bellmead, Lacy Lakeview, Hewitt, McGregor and Woodway. This plant also accepts waste from septic haulers and many industries. This WWTP processes biosolids and provides local landowners with nutrient rich soil enhancement pellets to be applied to fields.

The Bull Hide Creek WWTP is a 1.5 MGD and is in design to be expanded to a 4MGD plant. This plant receives wastewater from the cities of Waco, Hewitt, and Lorena.

In addition, the wastewater system includes 70 lift stations and 970 miles of wastewater mains.

The City of Waco continues to work on effluent reuse opportunities such as the Flat Creek Reuse Water line. This project has received additional funding to begin building the storage and pumping necessary to implement this project.

7.1 WASTEWATER CONNECTIONS

Water Use Category	Active Wastewater Connections			% of Total Connections
	Metered	Unmetered	Total Connections	
Municipal		39,986	39,986	91%
Industrial		5	5	0.1%
Commercial		3,908	3,908	8.9%
Institutional	0	0	0	0%
Agricultural	0	0	0	0%
TOTAL	0	43,899	43,899	

7.2 WHOLESALE WASTEWATER CUSTOMERS

Wholesale wastewater customers have separate collection systems but all feed into the City of Waco's sewerage systems for transportation to and treatment at one of two wastewater treatment plants. All wholesale wastewater customers are metered. Those meters are tested annually.

Wholesale Wastewater Treatment Contracts

Customer	Contract Amount in Gallons Per Day
City of Bellmead	2,308,300
City of Hewitt	2,504,300/720,000
City of Lacy Lakeview	1,054,600
City of Lorena	320,000
City of Robinson	1,571,100
City of Woodway	2,670,000
TOTAL	11,148,300

7.3 WASTEWATER DATA FOR SERVICE AREA

Month	Total Gallons of Treated Wastewater				
	2019	2020	2021	2022	2023
January	1,135,150,000	637,844,000	877,636,000	654,791,000	684,089,000
February	728,725,000	816,927,000	721,156,000	665,610,000	789,559,000
March	806,559,000	974,900,000	741,092,000	681,884,000	766,243,000
April	1,105,990,000	982,686,000	671,836,000	667,884,000	769,973,000
May	1,309,880,000	857,294,000	938,050,000	678,103,000	877,706,000
June	841,568,000	690,694,000	1,025,155,000	587,226,000	673,138,000
July	740,472,000	666,154,000	804,224,000	593,844,000	613,880,000
August	632,065,000	582,324,000	693,480,000	585,480,000	600,503,000
September	573,439,000	842,398,000	632,926,000	575,360,000	609,742,000
October	631,962,000	653,557,000	703,260,000	636,052,000	660,010,000
November	563,994,000	584,104,000	640,560,000	738,837,000	632,754,000
December	550,377,000	638,906,000	653,001,000	709,115,000	685,450,000
TOTAL	9,820,181,000	8,927,828,000	9,102,376,000	7,773,319,000	8,363,047,000

8. PUBLIC INVOLVEMENT

Opportunity for the public to provide input into the preparation of the Plan was provided by the City of Waco by means of publishing the Plan on the City of Waco Water Utility Services website (www.wacowater.com), making the plan available for review at the Public Libraries, and inviting water customers to send comments electronically or in writing.

9. PUBLIC EDUCATION

The City of Waco will provide the public with information about the Conservation Plan. This information will be provided by means of press releases, bill inserts, presentations to community organizations, website updates and other outreach methods as appropriate.

10. COORDINATION WITH REGIONAL WATER PLANNING GROUPS

The service area of the City of Waco is located within the Brazos G Regional Water Planning Group. The City of Waco has provided a copy of this Plan to the Brazos G Regional Water Planning Group. This plan is consistent with Waco's role as a leader in water supply planning in the Brazos G Regional Planning Group and meets the standards for water conservation planning in TAC Chapter 288.

11. YEAR-ROUND WATER CONSERVATION STRATEGIES FOR MUNICIPAL & WHOLESALE WATER USE

This section provides information about Waco's water conservation efforts, current integrated water resource planning efforts, upcoming programs, and five- and ten-year water savings goals.

11.1 WATER USE MANAGEMENT

Waco's Water Utility Services Department, with the assistance of Code Compliance, implements and enforces a comprehensive Water Conservation Code (26-91) that applies to all retail water customers. This code includes a baseline Conservation Stage with strong year-round conservation requirements.

11.2 YEAR-ROUND OUTDOOR WATER CONSERVATION MEASURES

Effective July 1, 2024, year-round outdoor water conservation measures are structured to use water in the most beneficial and efficient manner to protect the long-term water supply and to achieve conservation goals. These are conservation measures outside of a declared Drought Stage.

Three Days Per Week Outside Watering Schedule

Last Digit of Address	**Allowed Landscape Water Days**
Odd Number (1,3,5,7,9)	Sunday, Tuesday, Thursday
Even Number (0,2,4,6,8)	Monday, Wednesday, Saturday
No Water Friday - Storage Recovery	

Apartments, office building complexes, or other properties containing multiple addresses, will be identified by the lowest physical street address number. Where there are no numbers, a number will be assigned by the Building Official.

Time-of-Day Watering	Watering Prohibited between 10:00 AM and 7:00 PM.	
Buried Drip Irrigation	No restrictions but must be buried a minimum of 6 inches	
Handheld Hose	**Conservation & Drought Stages**	When Allowed or Restricted
	Conservation Plan	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human

		action (such as squeezing of a lever) to dispense water is used
	Drought Stage 1	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 2	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 3	Use is only allowed on the users designated water day. Time of day restrictions apply. Must be held in hand and automatic shut off devise such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 4	Not allowed.
Impervious Surface	Water Use on impervious surfaces - such as washing down a driveway or sidewalk, is discouraged unless for health and safety purposes. Such use is allowed on assigned outside water days and times.	
Water Waste/Runoff	Runoff of more than 10 feet from the edge of the property will be considered water waste.	

Conserving water and limiting days and time-of-day usage benefits the overall water system and reduces the need for additional infrastructure to meet peak time-of-day usage for irrigation. One of the largest water savings and peak day water use reduction measures is a restriction being adopted that limits irrigation water use to 3-days a week. This code includes time of day restrictions that allow irrigation to occur before 10:00 a.m. or after 7:00 p.m. on the designated day. This schedule allows efficient irrigation methods, buried drip irrigation, to operate with no restrictions. Water hoses held in hand, with an automatic shut off device, can water any day, any time (except in Drought Stage 3 when it would be limited to one day during allowed hours and Drought Stage 4 where it would be prohibited). The code also contains prohibitions on water waste, which includes failing to repair a controllable leak and allowing water to spray or pond on impervious surface more than 10-feet from the landscape being irrigated.

11.3 VARIANCES

Newly installed landscaping has a different water need than established landscaping. Customers with newly installed landscapes that need additional watering days to become established, must apply for a variance from the mandatory watering schedule. If a variance is approved, the following additional water days will be allowed on the subject property under the following requirements:

Variances	**Conservation & Drought Stages**	**MAXIMUM DAYS ALLOWED (from date of plant installation)**
	Conservation	60
	Drought Stage 1	45
	Drought Stage 2	30
	Drought Stage 3	0
	Drought Stage 4	0
Plants	Variance can only be used for the plants and area listed in the variance	
Effective Time Frame	A variance will take effect on the date which it is approved by the City. Variance end date will be based on the date of plant installation.	

- Variances can only be utilized for the plants and planting area designated.
- Variances granted will expire upon a declaration of drought or an escalation of the Plan to the next higher Stage or upon termination of the declaration of drought.

Water Utility Services will provide a link to Texas A & M Agrilife for a list of turf grasses that are considered drought tolerant at wacowater.com. This list is not meant to be all inclusive but is for guidance.

11.4 ATHLETIC FIELDS AND GOLF COURSES

Additional water use restrictions during year-round conservation include mandatory water plans for all athletic fields and golf courses. These plans are due annually by October 1st of each year and must include an evaluation of how much water is intended to be used, how and who is monitoring, the water meters included in the plan, and how water will be reduced in accordance with water reduction goal in each Drought Stage when Waco declares a Drought Stage. The Director of Water Utilities or designee can deny a plan that does not include appropriate conservation measures and reduction in water usage and waste. **Any athletic field or golf course owner who does not submit a water plan or whose water plan has been denied, will be required to adhere to the Year-Round Outdoor Water Conservation Plan and Drought Contingency and Water Emergency Management Plan Measures schedule.**

Athletic Fields and Golf Courses Conservation Measures

Annual Water Plan (AWP)	Due October 1, 2024, and October 1st each year thereafter
Water amount and method of evaluation	Amount of water to be used during Year-Round Conservation and for each drought stage. Each Drought Stage water total should be reduced by the minimum percentage amount stated for that stage.
Meter Number	Any meter that measures water on an athletic field or golf course.
Person and method	Who will monitor the plan, their contact information, and how they will monitor the plan to achieve the water reduction
Drought Stage 4	No Outside Watering

11.5 IRRIGATION SPRINKLER SYSTEMS

All new automatically controlled irrigation sprinkler systems are required to include sensors or other technology designed to inhibit or interrupt operation of the irrigation system during periods of moisture or rainfall. Rain or moisture shut off technology must be installed in accordance with the manufacturers published recommendations. Repairs to existing automatic irrigation systems that require replacement of an existing controller must include a sensor or other technology designed to inhibit or interrupt operation of the irrigation system during periods of moisture or rainfall (TAC 30, Part 1, Chapter 344, Subchapter F, Paragraph j). Irrigation systems must direct flow away from impervious surfaces. Newly installed irrigation systems must include an isolation valve for the irrigation system.

Irrigation Sprinkler Systems

New Systems or new operational system	Rain - moisture Sensor/automatic shut off required
Design	Must direct flow away from impervious surfaces
Isolation Valve	New systems must have an isolation valve

11.6 OTHER CONSERVATION PROGRAM YEAR-ROUND STRATEGIES

- Outdoor pools, hot tubs, spas, etc. are encouraged to be covered when not in use.
- Hosing of paved surfaces/areas is discouraged except to alleviate an immediate health or safety hazard, or preparation for painting.
- The name(s) listed on the water account will be responsible for all violations involving minors.
- One-or two-day events that utilize water, such as a water slide or charity car wash (by hand), will be allowed through Drought Stage 2.
- Water service may be discontinued if three or more violations occur at a service address within a 30-day period. Service discontinued under such circumstances will be restored only upon payment of (1) the service call fee set by the City of Waco Fee Schedule, and (2) any and all penalties incurred by violating the ordinance.
- Grey water use will not be restricted if the system of delivery and configuration conform to the current International Plumbing Code. A grey water system cannot be physically connected to the potable water supply and the grey water system must be installed so that there is no chance of grey water contamination into the public water supply.
- Texas Administrative Code290.252 requires plumbing fixtures to meet water savings performance standards (290.252(b)) and be on the list of approved fixtures (290.253)
- Each violation (of Division 2, Article IV, Chapter 26 of the Waco Code of Ordinances) will be classified as a misdemeanor and can incur a fine up to $2,000.00 for each offense. Each violation will be counted as a separate offense. Each day any violation of a city ordinance continues will be a separate offense.

11.7 CITY OF WACO CONSERVATION MEASURES

- City of Waco will continue to meter and measure the amount of raw water diverted from Lake Waco and/or other water sources.

- All meters will continue to be a part of a rigorous testing and replacement program.
- Annual water audits to determine water loss will be conducted.
- The city will continue to maintain accurate records of leaks, repairs, flushing, construction, and firefighting exercises.
- The city will continue monitoring daily diversion amounts with daily water treatment production to determine water loss prior to distribution. Production amounts will also be compared to metered consumption to determine distribution loss.
- Leaking water lines will continue to be repaired or replaced as quickly as possible. On-call, after-hours crews will continue responding to leaks at all hours. In situations where repair is not immediately possible, water loss will be mitigated by reduction of pressure.
- The city will continue to monitor and respond to its acoustic leak detection devices.
- The city will continue efforts to inform and educate the public on water conservation issues. In addition to year-round efforts, each year, as the high use season of summer approaches, these efforts will be increased and expanded. Just prior to and during the summer months, press releases will be issued regarding the city's Conservation and Drought Contingency and Water Emergency Management Plans and multiple notices will be inserted in all customer bills.
- The current non-promotional, inclining block rate will continue to be the rate structure for the City of Waco. The rate structure will be evaluated on an ongoing basis and adjustments will be made as appropriate.
- The City of Waco will continue to promote My Waco Water and the ability for our customers to monitor, manage, and stay informed about their water usage.
- Information and items promoting conservation will also be offered as "give away" items at public events or public bldgs. speaking engagements.

12. METHOD FOR TRACKING IMPLEMENTATION AND EFFECTIVENESS

Overall progress toward conservation goals of reducing consumption, loss, waste, and peak demand and improving efficiency of usage will be evaluated annually when the water conservation annual report is completed. The following methods will be used to evaluate individual portions of the plan:

- Records regarding meter replacement will be maintained and examined annually. Failure rates, along with "re-read" work orders (orders to re-read a meter are automatically generated whenever there is a high or low discrepancy outside normal variance), leaks and meter/model will be compared to evaluate the replacement cycle.
- Water loss accounting will be evaluated periodically examining multi-year loss trends, with the specific goal of identifying any discrepancies or variances and determining the cause.
- Leak detection and repair will be evaluated annually by examining comprehensive records showing number of leaks, locations, time before repair, estimated loss of water through leak, estimated loss of water through flushing. This information will be compared to water loss information for the same period.
- Public information and education efforts will be evaluated by documenting actions, such as: number of press releases issued, number or stories written or produced, number of interviews given, number of bill inserts sent, number of presentations given, and number and location of advertisements placed. This information will then be evaluated with consumption during the same period and compared against data from previous years.

- The City's water rate structure will continue to be evaluated by examining consumption trends. Records will be kept on consumption for each rate class. This information will be compared along with cost-of-service considerations, with historical trends and adjustments will be made to the rate structure as appropriate.

13. METHOD FOR MEASURING WATER DIVERTED FROM SOURCE

Raw Water diversions from Lake Waco are metered, calculated, and tracked at least daily as part of the treatment process control and reporting agreement with the U.S. Army Corps of Engineers. A recording of water use (treated water) is updated daily.

14. UNIVERSAL METERING

The city maintains meters to ensure that accurate readings (meters registering at an accuracy of no less than 95% or no higher than 105% expressed as percentage of the full scale of the meter and performing to American Water Works Association water metering standards) are being recorded. This ensures fair and equitable billing and reduces unaccounted for water.

15. MEASURING AND CONTROLLING WATER LOSS

The City of Waco performs periodic visual inspections along distribution lines as well as maintaining accurate water leak and repair records. The city also measures and collects data on firefighting, construction, and main flushing. Annual internal audits of water usage are conducted to determine water loss.

16. LEAK DETECTION AND REPAIR

Measures to control unaccounted water are part of the routine operations of the City of Waco. Meter readers and operations crews watch for and report signs of illegal connections so they can be addressed quickly. Over 10,000 acoustic leak detection devices have been installed to monitor for leaks. Crews and personnel look for and report any evidence of leaks in the water distribution system. Repair crews respond quickly to repair leaks reported by the public and city personnel. The city has 82 full-time distribution line/and meter positions and two on-call crews after hours responding to all leaks as quickly as possible. Areas of the water distribution system in which numerous leaks and line breaks occur are targeted for replacement as funds are available.

17. CONTINUING PUBLIC EDUCATION AND INFORMATION

The City of Waco's Marketing & Communications Department will produce written materials in the form of

- Printed Promotional Items
- Newsletter Articles
- Media Releases
- Public service announcements

These are distributed to customers, the local media, and to non-profit local organizations such as neighborhood associations and civic organizations so they can inform their members.

The water utility ensures that multimedia materials are also available through the Water Utility's website, wacowater.com. The information is also broadcast over the city public access channel, and in cooperation with local media outlets for the release of information for both television and radio audiences.

Specific efforts include:

- Specialized alerts are displayed on the City of Waco's website – www.waco-texas.com.
- Interviews with city experts in irrigation and plant water demand on the local access channel.
- Interviews with city management.
- Press conferences to promote key educational programs.
- Public events or educational events with conservation and/or drought information.
- Booths at public events sponsored by neighborhood associations, civic organizations, not-for-profit education groups, and other city departments.

The Water Utility works with the City's Marketing and Communications Department to create and distribute promotional items encouraging water conservation on a regular basis.

18. WATER RATE STRUCTURE

Waco's conservation water rate is an increasing block rate, which increases as the quantity used increases. Prices per thousand gallons increase at specific "tiers" in consumption. Each tier of the rate structure is designed to send a price signal to consumers as their discretionary consumption of water increases.

Residential Water Rates

(Inside City)		**(Outside City)**	
Rate is based on meter size + usage tier		Rate is based on meter size + usage tier	
3/4" meter	$16.50	3/4" meter	$20.63
1" meter	$27.50	1" meter	$34.38
1.5" meter	$55.00	1.5" meter	$68.75
Base Charge	$16.50	Base Charge	$20.63
0 – 3,000 Gallons	$3.14 Per 1,000	0 – 3,000 Gallons	$3.93 Per 1,000
3,001 – 8,000 Gallons	$4.17 Per 1,000	3,001 – 8,000 Gallons	$5.21 Per 1,000
8,001 – 15,000 Gallons	$6.28 Per 1,000	8,001 – 15,000 Gallons	$7.85 Per 1,000
15,001 – 25,000 Gallons	$8.17 Per 1,000	15,001 – 25,000 Gallons	$10.21 Per 1,000
Over 25,000 Gallons	$10.99 Per 1,000	Over 25,000 Gallons	$13.74 Per 1,000

19. RESERVOIR SYSTEMS OPERATIONS PLAN

A reservoir systems operations plan is not applicable to the City of Waco. The operation of the reservoir systems is conducted by the U.S. Army Corps of Engineers

20. AGRICULTURAL WATER USE

Agricultural use is for the golf course and sports field irrigation, not for irrigation in the production of crops, so no production process is applicable to the City of Waco's Plan. Therefore, the city does not intend to use state-of-the-art equipment or process modifications to improve water use efficiency. The amount of usage will remain constant. The city does not anticipate any water savings because the intent is to use all acre feet (per year) allowed for irrigation; therefore, the city does not have specific, quantified five-year and ten-year targets for water savings. The city uses meters that are within an accuracy of plus or minus 5% to measure and account for water diverted from the source of supply. City staff monitors the meters monthly to detect, repair and account for

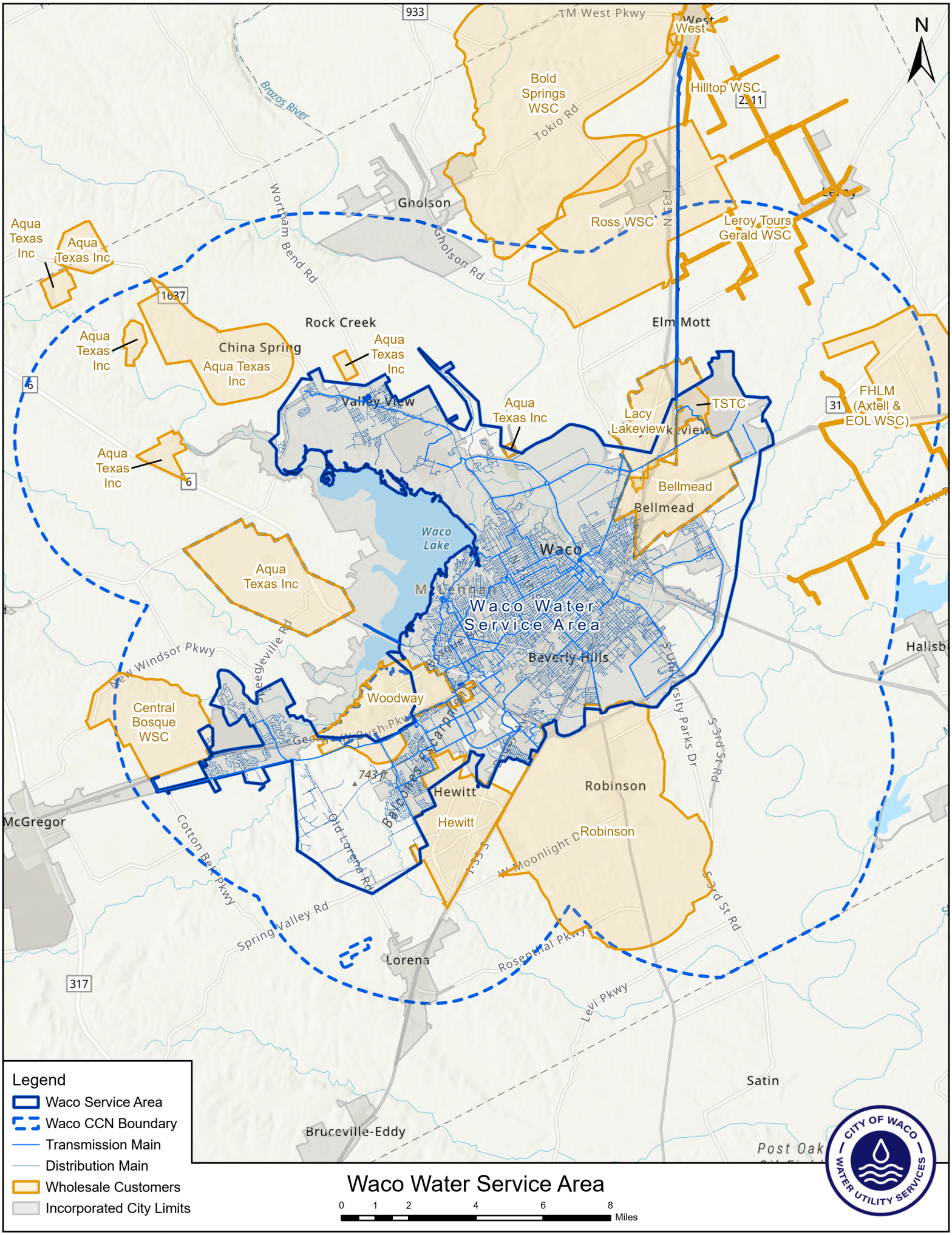
water loss in the water distribution system 30 TAC § 288.4(a)(2) and (a)(3) are not applicable to the City of Waco.

21. IMPLEMENTATION AND ENFORCEMENT

This plan is part of an ordinance approved by the City of Waco, City Council. A copy of the ordinance is provided in Appendix A. Criminal penalties apply to the Conservation Plan. Enforcement of the Plan is further discussed in said Ordinance.

22. REVIEW AND UPDATE OF THE CONSERVATION AND DROUGHT CONTINGENCY AND WATER EMERGENCY MANAGEMENT PLANS

These plans will be reviewed annually and updated as needed. An approved, updated plan will be sent to the Texas Water Development Board.



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APPENDIX A

Copy of Transmittal Letter to Brazos G Regional Planning Group

CITY OF WACO

Water Utility Services
PO Box 2570
Waco, Texas 76702-2570

T: (254) 299-2489
waco-texas.com

May 30, 2024

Wayne Wilson, Chair-Brazos G RWPG CIO
Brazos River Authority
P.O. Box 7555
Waco, TX 76714

RE: Amended City of Waco Water Conservation Plan Information for the Region G Planning Group

Dear Wayne,

Recently, The City of Waco amended its Water Conservation & Drought Contingency Plans for the 5-year update. This plan is consistent with Waco's role as a leader in water supply planning in Region G and meets the standards for water conservation planning in TAC Chapter 28.

Enclosed you will find copies of the amended Water Conservation and Drought Contingency Plan. If any additional information is needed for the Planning Group, please contact the City of Waco Water Utilities Department at 254-750-8040.

Sincerely,

Lisa Tyer
Director, Water Utilities Services

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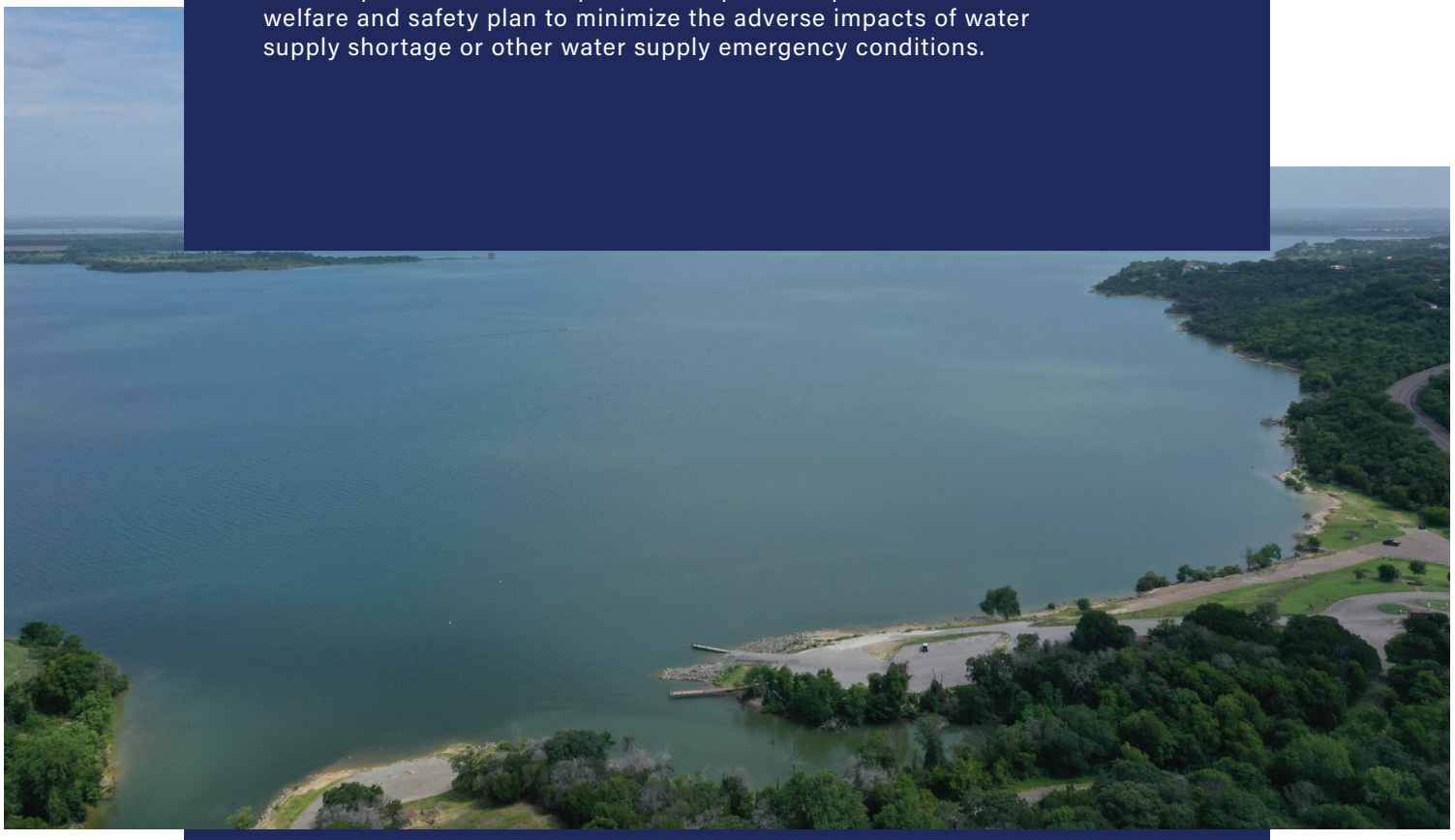
CITY OF WACO

Developed to meet requirements outlined in 30 TAC § 288.2 and § 288.5

DROUGHT CONTINGENCY PLAN

Updated for 2024

The city of waco drought contingency plan is intended to conserve the available water supply and protect the integrity of water supply facilities, with particular regard to domestic water use, to sanitation and fire protection, and to protect and preserve public health, welfare and safety plan to minimize the adverse impacts of water supply shortage or other water supply emergency conditions.



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CITY OF WACO DROUGHT CONTINGENCY & EMERGENCY WATER MANAGEMENT PLAN

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SECTION I: DECLARATION OF POLICY, PURPOSE, AND INTENT

The purpose of this Drought Contingency and Emergency Water Management Plan (subsequently referred to as the "Plan") is as follows:

- To conserve the available water supply in times of drought and emergency
- To maintain supplies for domestic water use, sanitation, and fire protection
- To protect and preserve public health, welfare, and safety
- To minimize the adverse impacts of water supply shortages
- To minimize the adverse impacts of emergency water supply conditions

In order to conserve the available water supply and protect the integrity of water supply facilities, the City of Waco hereby adopts the following regulations and restrictions on the delivery and consumption of water through Ordinance No. 2024 - 361. A copy is attached as Appendix A.

Water uses regulated or prohibited under this Plan are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply condition are deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in Section IX of this plan.

SECTION II: PUBLIC INVOLVEMENT

Opportunity for the public to provide input into the preparation of the Plan was provided by the City of Waco by means of a public meeting and by publishing the Plan on the Water Utility Services website (www.wacowater.com). A public notice was provided regarding a public meeting, which was held to accept input on the Plan. Additionally, citizens were invited to send comments electronically after viewing the Plan online.

SECTION III: PUBLIC EDUCATION AND NOTIFICATION

The City of Waco will provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided by means of press releases, bill inserts, presentations to community organizations, website updates and other outreach methods as appropriate. Upon implementation and/or termination of any stage of the plan, the public will be notified through local media and website updates.

SECTION IV: WHOLESALE CONTRACT PROVISIONS

All wholesale water contracts entered into, renewed or extended after adoption of this plan, will include a provision that in case of a shortage of water resulting from drought, the water to be distributed will be divided in accordance with Texas Water Code, §11.039.

SECTION V: COORDINATION WITH REGIONAL WATER PLANNING GROUPS

The service area of the City of Waco is located within the Brazos G Regional Water Planning Group. The City of Waco has provided a copy of this Plan to the Brazos G Regional Water Planning Group.

SECTION VI: AUTHORIZATION

The City Manager or his/her designee is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. When criteria have been met (as described for each Drought Stage), the City Manager or his/her designee has the authority to initiate or terminate drought or other water

supply emergency response measures described in this Plan. The City Manager or designee will notify the Director of Water Utility Services or designee of the initiation or termination of a drought stage. The following actions will occur when a stage is initiated or terminated:

- The public will be notified through the local media and City of Waco Web site by the Communications & Marketing Department.
- City of Waco's wholesale customers will be notified by telephone with a follow up e-mail that provides the reasons for initiation of the drought or emergency stage and when that stage is terminated by the Director of Water Utility Services or designee.
- The City of Waco Water Utility Department will notify the Executive Director of the TCEQ and the local TCEQ office within 5 business days when a drought or emergency stage is activated or terminated.

The Plan may be applied to the entire city or service area, or geographic portions of the city or service area, as necessary. If the Plan is applied only to a limited area, the boundaries will be defined by roadways, rivers, creeks and other easily distinguishable features.

SECTION VII: APPLICATION

The provisions of this Plan will apply to all persons, customers, and property utilizing water provided by the City of Waco. The terms "person" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

SECTION VIII: DEFINITIONS

For the purposes of this Plan, the following definitions will apply:

Accounts – all Single Family and all Non-Single Family Accounts, collectively.

Aesthetic water use – Water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

Athletic field – A developed recreation area that may contain a playground as well as fields for competitive sports such as baseball, softball, football or soccer.

Commercial and institutional water use – Water use, which is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, and office buildings.

Conservation – Those [triggering conditions] practices, techniques, and technologies greater than the baseline conservation practices, that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses. Baseline conservation practices are those actions expected from customers as good citizens; including, but not limited to:

- Turning off or re-programming automatic sprinkler systems during precipitation events or in soil-saturated conditions;
- Implementing landscape irrigation to maximize impact, e.g., not irrigating in the afternoon or highest evaporative loss hours;

Customer – Any person, company, or organization using water supplied by the City of Waco.

Domestic water use – Water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Even number address – Street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

Golf course – an area of land laid out for golf with a series of 9 or 18 holes each including tees, fairways, putting greens and often one or more natural or artificial hazards.

Grey water – Wastewater without fecal contamination generated primarily in households or office buildings from sinks, showers, baths, washing machines or dishwashers. Wastewater from toilets is NOT grey water.

Industrial water use – The use of water in processes designed to convert materials of lower value into forms having greater usability and value.

Landscape irrigation use – Water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

Mean Sea Level (msl) – The level of the ocean's surface, especially the level halfway between high and low tide, used as a standard in reckoning land elevation or sea depths.

Non-essential water use – Water uses that are neither essential nor required for the protection of public, health, safety, and welfare, including:

a) irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
b) use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
d) use of water to wash down buildings or structures for purposes other than immediate fire protection;
e) flushing gutters;
f) Permitting water to run or accumulate in any gutter or street;
g) use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi- type pools;
h) use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
i) failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
j) use of water from hydrants for construction purposes or any other purposes other than firefighting and system maintenance.

Non-Single Family Account – water service for any category besides a Single Family Residence, such as water service to Multi-Family Residence, Industrial, Commercial, Institutional, and/or Agricultural.

Odd numbered address – Street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

Plan – the 2024 Water Conservation Plan and 2024 Drought Contingency Plan, collectively, which will be the water conservation and drought/emergency contingency plan for the city, as adopted or hereby amended.

Single Family Account – water service at a Single Family Residence

Single Family Residence – a house, or dwelling unit with 4 or less housing units used as a residence with one family housed in each unit.

User – any person connected to the city's water system, including owners and/or occupants of any premises connected to the city's system and wholesale customers.

Variance – request for additional consideration to allow for more days to water based on new plants or other circumstances.

Water – water taken from any city water including raw water, clarified (pretreated) water, or potable (drinking) water.

Water shortage emergency – A condition in which the ordinary water demands and requirements of the City's wholesale and retail customers cannot be met without resulting in insufficient water for human consumption, public health (sanitation), and fire protection. A water shortage emergency may be limited geographically or temporally.

SECTION IX: CRITERIA FOR INITIATION AND TERMINATION OF DROUGHT/EMERGENCY RESPONSE STAGES

The City Manager or his/her designee will monitor water supply and/or demand conditions on a daily basis and will determine when conditions warrant initiation or termination of each stage of the Plan, that is, when the specified triggers are reached.

Criteria triggering the implementation of various stages of the Drought Contingency and Water Emergency Management Plan, include, but are not limited to, the following:

1. General, geographical, or weather related condition or emergency, including but not limited to drought conditions resulting in a decrease in the Lake Waco reservoir level
2. Water system failures/emergencies (i.e., pressure zone deficiencies, chemical spills, broken water mains, power outages, electrical failures, failures of storage tanks or other equipment, treatment plant breakdown, and water contamination)
3. An inability to recover approximately ninety (90) percent of water stored in all Storage facilities within a defined period
4. A catastrophic decrease in the Lake Waco reservoir level and/or delivery capabilities resulting in an inability, presently or in the immediate future, to recover resources sufficient to provide services necessary for the public health, safety, and welfare

The level of the Lake Waco reservoir shall be determined based on the official reading by the U.S. Army Corps of Engineers and stated as an elevation above mean sea level (msl).

TRIGGERING STAGES, RESPONSES AND GOALS

Generally, should a water shortage emergency occur, the City Manager may exercise his or her discretion to: (1) request special voluntary water restrictions, (2) initiate Stages 1 - 4 mandatory restrictions, and/or (3) prohibit wastage and restrict certain uses of water deemed nonessential

during the emergency. Initiation of a specific Stage is dependent on climatic and water system conditions and does NOT necessarily require a progression from Stage One through Stage Three to reach Stage Four.

Pro rata curtailment of water delivery to wholesale water customers, as provided in Texas Water Code, §11.039, may be triggered by criteria within or without the plan and may be implemented during any stage of the plan.

The City of Waco has no alternative source of water from which to draw or make use of as a water supply management measure during a water shortage.

Stage 1 Triggers – MILD Water Shortage

Criteria for implementation of Stage 1. The city manager will implement stage 1 restrictions when any of the following conditions exist:

- The Lake Waco reservoir level decreases to 457msl (at which the reservoir is at about 80% of its capacity); or
- Weather forecasts and stream flow conditions, in the opinion of the city manager, warrant restrictions on the use of water; or
- Other unforeseen events, such as a water treatment plant, pipe or pump failure or source of supply contamination that necessitates the public's participation in a reduction of water usage.

Criteria for termination – Stage 1 will be terminated at the discretion of the City Manager but may be based on:

- An increase in the level of Lake Waco; or
- Weather forecast and stream flow conditions that, in the opinion of the city manager, warrant removal of restrictions on the use of water; or
- The ending of unforeseen events that necessitated the public's participation in water restrictions.

Stage 1 Responses

Mandatory restrictions – Upon implementation by the city, the following restrictions shall apply unless specifically exempted:

1. The city will reduce use of water for municipal purposes by
    - Submittal of a water plan that includes following the mandated day and times allowed for watering and meeting the water reduction goal.
2. The city will monitor "excessive watering" and issue notifications to customers.
3. Criminal penalties apply during Stage 1 restrictions.
4. All landscape and other outdoor water usage at each service address shall be limited to two days a week based on the last digit in the physical street address; however, landscape and outdoor water usage is prohibited from 10:00 A.M. to 7:00 P.M.

Last Digit of Address	**Allowed Landscape Water Days**
Odd	Sunday and Friday
Even	Monday and Saturday

No Watering Tuesday, Wednesday, Thursday - Storage Recovery Day		
Time-of-Day Watering	Watering Prohibited between 10:00 AM and 7:00 PM.	
Buried Drip Irrigation	No restrictions but must be buried a minimum of 6 inches	
Handheld Hose	**Conservation & Drought Stages**	When Allowed or Restricted
	Conservation Plan	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 1	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 2	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 3	Use is only allowed on the users designated water day. Time of day restrictions apply. Must be held in hand and automatic shut off devise such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 4	Not allowed.
Impervious Surface	Water Use on impervious surfaces - such as washing down a driveway or sidewalk, is discouraged unless for health and safety purposes. Such use is allowed on assigned outside water days and times.	
Water Waste/Runoff	Runoff of more than 10 feet from the edge of the property will be considered water waste.	

5. Apartments, office building complexes, or other properties containing multiple addresses, will be identified by the lowest physical street address number. Where there are no numbers, a number will be assigned by the Building Official.

6. Variances will be reduced to 45 days for newly installed plants. All other variance requirements in the Conservation Plan remain in effect.
7. Golf course landscape watering and Athletic Field watering must adhere to the water plan that was submitted or adhere to the twice a week water schedule.
8. Washing down of impervious surfaces such as sidewalks and driveways, or buildings is discouraged and is only allowed on outside watering days and times per Stage 1 Drought water restrictions.
9. Any other measure that the City Manager determines is necessary and in the best interest of the public to maintain an adequate water supply.

Stage 1 Goal

Reduction of previous three-year average daily use by 1%

Stage 2 Triggers – MODERATE Water Shortage

Criteria for implementation of Stage 2. The city manager will implement stage 2 restrictions when any of the following conditions exist:

- The Lake Waco reservoir level decreases to 452 msl (at which the reservoir is at about 60% of its capacity); or
- There is an inability to recover approximately ninety (90) percent of water stored in all storage facilities within a twenty-four (24) hour period; or
- Weather forecasts and stream flow conditions, in the opinion of the city manager, warrant restrictions on the use of water; or
- Other unforeseen events, such as a water treatment plant, pipe or pump failure, or source of supply contamination that necessitates the public's participation in a reduction of water usage.

Criteria for termination – Stage 2 will be terminated at the discretion of the City Manager or designee but may be based on:

- An increase in the level of Lake Waco; or
- An ability to recover ninety (90) percent of water stored in all storage facilities within a twenty-four (24) hour period; or
- Weather forecast and stream flow conditions that, in the opinion of the city manager, warrant removal of restrictions on the use of water; or
- The ending of unforeseen events that necessitated the public's participation in water restrictions.

Stage 2 Responses

Mandatory restrictions – Upon implementation by the city, the following restrictions shall apply unless specifically exempted:

1. The city will reduce use of water for municipal purposes by
    - Submittal of a water plan that includes following the mandated day and times allowed for watering and meeting the water reduction goal.
    - Reduced hours for such things as spray parks.

2. The city will monitor "excessive watering" and issue notifications to customers. "Excessive watering" occurs where run-off extends for a distance greater than ten (10) feet from the customer's property or where there is washing or hosing down of buildings, sidewalks, driveways, patios, porches, parking surfaces or other paved surfaces.
3. Criminal penalties apply.
4. All landscape and other outdoor water usage at each service address shall be limited to two days a week based on the last digit in the physical street address; however, landscape and outdoor water usage is prohibited from 10:00 A.M. to 7:00 P.M.

Last Digit of Address	**Allowed Landscape Water Days**
Odd	Sunday and Friday
Even	Monday and Saturday
No Watering Tuesday, Wednesday, Thursday - Storage Recovery Day	

Time-of-Day Watering	Watering Prohibited between 10:00 AM and 7:00 PM.	
Buried Drip Irrigation	No restrictions but must be buried a minimum of 6 inches	
Handheld Hose	**Conservation & Drought Stages**	When Allowed or Restricted
	Conservation Plan	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 1	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 2	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 3	Use is only allowed on the users designated water day. Time of day restrictions apply. Must be held in hand and automatic shut off devise such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used

	Drought Stage 4	Not allowed.
Impervious Surface	Water Use on impervious surfaces - such as washing down a driveway or sidewalk, is discouraged unless for health and safety purposes. Such use is allowed on assigned outside water days and times.	
Water Waste/Runoff	Runoff of more than 10 feet from the edge of the property will be considered water waste.	

5. Apartments, office building complexes, or other properties containing multiple addresses, will be identified by the lowest physical street address number. Where there are no numbers, a number will be assigned by the Building Official.
6. Criminal penalties apply during Stage 2 restrictions.
7. Watering of newly installed landscaping variances is reduced to 30 days from the date of planting. After the first month, the landscape water day's schedule and hourly restrictions must be followed. All other variance requirements in the Conservation Plan remain in effect.
8. Golf course landscape watering and Athletic Field watering must adhere to the water plan that was submitted or adhere to the twice a week watering schedule.
9. Washing down of impervious surfaces such as sidewalks and driveways, or buildings is discouraged and is only allowed on outside watering days and times per Drought Stage 2 water restrictions. Any other measure that the City Manager determines is necessary and in the best interest of the public to maintain an adequate water supply.
10. Conservation Rates take effect.

Residential Conservation Rates

Volumes	**Stage 1**	**Stage 2**	**Stage 3**	**Stage 4**
0-3000 gallons	No change	No change	No change	No change
3,001-8,000 gal	No change	No change	No change	No change
8,001 – 15,000 gal	No change	No change	10% increase	20% increase
15,001 – 25,000 gal	No change	10% increase	20% increase	25% increase
25,001 + gal	No change	20% increase	40% increase	50% increase

Irrigation Conservation Rates

0-25,000 gallons	No change	10% increase	20% increase	25% increase
25,001 + gallons	No change	20% increase	40% increase	50% increase

Stage 2 Goal

Reduction of previous three-year average daily use by 2% November – March and 8% April – October.

Stage 3 Triggers – SEVERE Water Shortage

Criteria for implementation of Stage 3. The city manager will implement stage 3 restrictions when any of the following conditions exist:

- The Lake Waco reservoir level to 449 msl (at which the reservoir is at about 50% of its capacity); or
- There is an inability to recover approximately ninety (90) percent of water stored in all storage facilities within a twenty-four (24) hour period.
- Weather forecasts and stream flow conditions, in the opinion of the city manager, warrant restrictions on the use of water; or
- The total amount of water available, as determined by the water utilities director, to the city from its developed water sources is less than a 24-month supply; or
- Other unforeseen events, such as a water treatment plant, pipe or pump failure, or source of supply contamination that necessitate the public's participation in a reduction of water usage.

Criteria for Termination – Stage 3 will be terminated at the discretion of the City Manager or designee and may be based on:

- An increase in the level of Lake Waco; or
- An ability to recover ninety (90) percent of water stored in all storage facilities within a twenty-four (24) hour period; or
- Weather forecast and stream flow conditions that, in the opinion of the city manager, warrant removal of restrictions on the use of water; or
- An increase in the total amount of water available; or
- The ending of unforeseen events that necessitated the public's participation in water restrictions.

Stage 3 Responses

Mandatory restrictions – Upon implementation by the city, the following restrictions will apply unless specifically exempted:

1. The city will reduce use of water for municipal purposes by

    a. Submittal of a water plan that includes following the mandated day and times allowed for watering and meeting the water reduction goal.
    b. Reduced hours for such things as spray parks.

2. The city will monitor "excessive watering" and issue notifications to customers. "Excessive watering" occurs where run-off extends for a distance greater than ten (10) feet from the customer's property or where there is washing or hosing down of buildings, sidewalks, driveways, patios, porches, parking surfaces or other paved surfaces.

3. Criminal penalties apply during Stage 3 restrictions.

4. All landscape and outdoor water usage at each physical street address shall continue according to the landscape water days schedule identified below (1 day a week); however, landscape and outdoor water usage is prohibited from 10:00 A.M. to 7:00 P.M.

Last Digit Address:	**Allowed Landscape Water Day**
0, 1	Monday
2, 3	Tuesday
4, 5	Wednesday
6, 7	Thursday

8, 9	Friday
Saturday and Sunday – No Watering, Storage Recovery days	

Time-of-Day Watering	Watering Prohibited between 10:00 AM and 7:00 PM.	
Buried Drip Irrigation	No restrictions but must be buried a minimum of 6 inches	
Handheld Hose	**Conservation & Drought Stages**	When Allowed or Restricted
	Conservation Plan	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 1	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 2	No restrictions if held in hand and automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 3	Use is only allowed on the users designated water day. Time of day restrictions apply. Must be held in hand and automatic shut off devise such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) to dispense water is used
	Drought Stage 4	Not allowed.
Impervious Surface	Washing down or hosing down of impervious surfaces such as buildings, sidewalks, driveways, patios, porches, parking areas or other paved surfaces is prohibited.	
Water Waste/Runoff	Runoff of more than 10 feet from the edge of the property will be considered water waste.	

5. Watering by handheld hose with an automatic shut off device such as a hose–end nozzle or sprayer that requires continuous human action (such as squeezing of a lever) is permitted on the water day and times reflected above. Buried drip irrigation is still permitted as long as it is buried at least 6 inches deep.
6. Apartments, office building complexes, or other property containing multiple addresses will be identified by the lowest physical address number. Where there are no numbers, a number will be assigned by the Building Official.
7. No variances for newly installed plantings will be given.
8. Existing swimming pools, hot tubs, spas, ornamental ponds and fountains may be replenished with a handheld hose to maintain operation only.
9. Permitting of new swimming pools, hot tubs, spas, ornamental ponds or fountain construction is prohibited, except that those under construction at the time Stage 3 restrictions are initiated may complete construction and may be filled one time only. Filling occurs when an amount of water equal to at least seventy-five (75) percent of the water capacity is placed in the structure or facility.
10. Excessive water run-off from any landscaped area onto streets, alleys, or parking lots is prohibited. Run-off is excessive when it extends for a distance greater than ten (10) feet from the customer's property.
11. Washing or hosing down buildings, sidewalks, driveways, patios, porches, parking areas, or other paved surfaces is prohibited.
12. Commercial car washes will not be allowed to operate during Drought Stage 3.
13. Use of water from fire hydrants is prohibited except for firefighting and health and safety related activities.
14. Any other measure that the City Manager determines is necessary and in the best interest of the public to maintain an adequate water supply.
15. Conservation Rates take effect.

Residential Conservation Rates

Volumes	**Stage 1**	**Stage 2**	**Stage 3**	**Stage 4**
0-3000 gallons	No change	No change	No change	No change
3,001-8,000 gal	No change	No change	No change	No change
8,001 – 15,000 gal	No change	No change	10% increase	20% increase
15,001 – 25,000 gal	No change	10% increase	20% increase	25% increase
25,001 + gal	No change	20% increase	40% increase	50% increase

Irrigation Conservation Rates

0-25,000 gallons	No change	10% increase	20% increase	25% increase
25,001 + gallons	No change	20% increase	40% increase	50% increase

Exceptions:

- Commercial landscape nurseries are exempt from Stage 3 restrictions (except for restrictions on hours when watering may occur), but all such nurseries will cease using water to clean pavement and sidewalk areas except for health and safety reasons.
- Golf course landscape watering and Athletic Field watering must adhere to the water plan that they submitted or adhere to the once-a-week watering.

Stage 3 Goal

Reduction of previous three-year average daily use by 2% November – March and 15% from April – October.

Stage 4 Triggers – EMERGENCY Water Shortage

1. Requirements for implementation of Stage 4. The city manager will implement stage 4 restrictions when any of the following conditions exist:
    - The Lake Waco reservoir level to 445 msl (at which the reservoir is at about 40% of its capacity); or
    - There is a determination by the City Manager of catastrophically decreasing lake reservoir levels and/or delivery capabilities with an inability to recover to provide services necessary for public health, safety, and welfare exist; or
    - Weather forecasts and stream flow conditions, in the opinion of the city manager, warrant restrictions on the use of water; or
    - The total amount of water available, as determined by the water utilities director, to the city from its developed water sources is less than a 12-month supply; or
    - Other unforeseen events, such as a water treatment plant, pipe or pump failure, or source of supply contamination that necessitate the public's participation in a reduction of water usage; or
2. Criteria for termination – Stage 4 will be terminated at the discretion of the City Manager or designee and may be based on:
    - An increase in the level of Lake Waco; or
    - An improvement in delivery capabilities and ability to provide services necessary for public health, safety, and welfare; or
    - Weather forecast and stream flow conditions that, in the opinion of the city manager, warrant removal of restrictions on the use of water; or
    - An increase in the total amount of water available; or
    - The ending of unforeseen events that necessitated the public's participation in water restrictions

Stage 4 Responses

Mandatory restrictions – Upon implementation by the city, the following restrictions shall apply unless specifically exempted:

1. Any and all outdoor/landscaping water usage is prohibited until the emergency is alleviated. This applies to all metered water users using the city's public water supply and includes all residential (single or multi-family), commercial (car wash, nurseries, business), recreational (public/private golf courses, parks, athletic fields), religious, health care, school and municipal entities. This applies to watering with a handheld hose and drip irrigation.
2. Use of water for municipal purposes will be limited to only those activities necessary to maintain the public health, safety and welfare, as determined by the city.
3. Use of water from fire hydrants is prohibited except for firefighting and health and safety related activities.
4. Any other measure that the City Manager determines is necessary and in the best interest

of the public to maintain an adequate water supply.

5. Conservation Rates take effect.

Residential Conservation Rates

Volumes	Stage 1	Stage 2	Stage 3	Stage 4
0-3000 gallons	No change	No change	No change	No change
3,001-8,000 gal	No change	No change	No change	No change
8,001 – 15,000 gal	No change	No change	10% increase	20% increase
15,001 – 25,000 gal	No change	10% increase	20% increase	25% increase
25,001 + gal	No change	20% increase	40% increase	50% increase

Irrigation Conservation Rates

0-25,000 gallons	No change	10% increase	20% increase	25% increase
25,001 + gallons	No change	20% increase	40% increase	50% increase

Stage 4 Goal

Reduction of previous three-year average daily use by 5% November – March and 20% April – October. The City Manager or his/her designee can set a goal for greater water use reduction as circumstances warrant.

SECTION X: ENFORCEMENT

1. No person shall intentionally, knowingly, recklessly or with criminal negligence allow the use of water from the city for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Division or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by the city, in accordance with provisions of this Division.
2. Any person, including a person classified as a water customer of the city, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation.
3. The account holder will be responsible for violations that occur on the property, even if the account holder does not physically reside at or on the property. Proof that the notices required under Section 26-94 have been given shall constitute a rebuttal presumption that the person has knowledge of and/or is aware of the declaration of a drought or emergency contingency stage, but such presumption may be rebutted by evidence that the person was out of city at the time of the declaration and could not reasonably have become aware of the declaration since returning to the city.
4. Any person who violates this Division is guilty of a misdemeanor and upon conviction shall be punished by a fine as provided in Section 1-14, General Penalty. Each day that one or more of the provisions in this plan is violated shall constitute a separate offense.
5. If a person is observed, on at least two occasions during Drought/Emergency Stage 2 through Stage 4, violating any water restrictions established for the applicable

Drought/Emergency Stage, the city shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur.

6. The City may utilize the Automatic Metering Management System to determine the time-of-day usage for any or all customers. A citation may be written for violating the time of day or day usage by a customer. The citation will be issued to the account holder in such instances.
7. If a person is convicted of three (3) or more distinct violations of this Division, the city shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur.
8. Water service may be discontinued if three or more violations occur at a service address within a 30-day period. Service discontinued under such circumstances will be restored only upon payment of: (1) the Service Call Fee set out in the City of Waco Fee Schedule, and (2) any and all penalties incurred by violating the ordinance. In addition, suitable assurance must be given to the city that the same action shall not be repeated while the plan is in effect.
9. The City is entitled to pursue all other criminal and civil remedies to which it is entitled under statutes or other ordinances. Compliance with this Division may also be sought through injunctive relief in the district court.

SECTION XI: VARIANCES

A customer may file an application for a variance from this plan for the property receiving water service with the City Manager or designee. The City Manager or designee may determine the proper information and require that the applicant provide such information to evaluate the variance request.

The City Manager or designee may grant a variance from the Plan upon his/her determination that special circumstances exist that upon strict enforcement of the plan will adversely affect the health, sanitation, or fire protection for the public or the applicant.

Variances	**Conservation & Drought Stages**	**MAXIMUM DAYS ALLOWED (from date of plant installation)**
	Conservation	60
	Drought Stage 1	45
	Drought Stage 2	30
	Drought Stage 3	0
	Drought Stage 4	0
Plants	Variance can only be used for the plants and area listed in the variance	
Effective Time Frame	A variance will take effect on the date which it is approved by the City. Variance end date will be based on the date of plant installation.	

- Newly installed landscaping has a different water need than established landscaping. Customers with newly installed landscaping that need additional watering days to become established, must apply for a variance from the mandatory watering schedule. If a

variance is approved, the following additional water days will be allowed on the subject property under the following requirements:

- Variances can only be utilized for the plants and planting area designated.
- Variances granted will expire upon a declaration of drought or an escalation of the Plan to the next higher Stage or upon termination of the declaration of drought.

Water Utility Services will provide a link to Texas A & M Agrilife for a list of turf grasses that are considered drought tolerant at wacowater.com. This list is not meant to be all inclusive but is for guidance.

ATHLETIC FIELDS AND GOLF COURSES

Additional water use restrictions during year-round conservation include mandatory water plans for all athletic fields and golf courses. These plans are due annually by October 1st of each year and must include an evaluation of how much water is intended to be used, how and who is monitoring, the water meters included in the plan, and how water will be reduced in accordance with water reduction goal in each Drought Stage when Waco declares a Drought Stage. The Director of Water Utilities or designee can deny a plan that does not include appropriate conservation measures and reduction in water usage and waste. **Any athletic field or golf course owner who does not submit a water plan will be required to adhere to the Year- Round Outdoor Water Conservation and Drought Contingency and Water Emergency Management Plan Measures schedule.**

Athletic Fields and Golf Courses Conservation Measures

Annual Water Plan (AWP)	Due October 1, 2024, and October 1steach year thereafter
Water Amount and method of evaluation	Amount of Water to be used during Year-Round Conservation and for each drought stage. Each Drought Stage water total should be reduced by the minimum percentage amount stated for that stage.
Meter Number	Any meter that measures water on an athletic field or golf course.
Person and method	Who will monitor the plan, their contact information, and how they will monitor the plan to achieve the water reduction
Drought Stage 4	No Outside Watering

SECTION XII: STATE MANDATED WATER RESTRICTIONS

1. If a State agency with jurisdiction over water rights and use lawfully orders that drought response restrictions on water usage be imposed, the water restrictions will be implemented, regardless of whether any of the criteria for implementation stated in Sec. 26-97 or Sec. 26-98 have been met.
2. The city manager will notify the public of the implementation of the state mandated restrictions as provided in Sec. 26-94. Said notice will set out the specific restrictions to be implemented.

3. No person will intentionally, knowingly, recklessly, or with criminal negligence allow the use of water from the city for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner:
    a. Contrary to the notice issued under subsection 2 above; or
    b. Contrary to the state mandated restriction; or
    c. In excess of state mandated usage limits.
4. If a violation of the mandated restriction occurs, notice of the violation may be given as provided in Sec. 26-95 and the violation may be punished as provided in Sec. 26-96.

ORDINANCE # 120903

DROUGHT CONTINGENCY PLAN FOR THE CITY OF THRALL NOVEMBER 14, 2003

Section I: Declaration of Policy, Purpose, and Intent

In order to conserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the THRALL (City of Thrall) hereby adopts the following regulations and restrictions on the delivery and consumption of water.

Water uses regulated or prohibited under this Drought Contingency Plan (the Plan) are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply condition are deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in Section XI of this Plan.

Section II: Public Involvement

Opportunity for the public to provide input into the preparation of the Plan was provided by the City of Thrall by means of Public Meetings which are held on the second Tuesday of each month at 7:00p.m. At the Thrall City Hall.

Section III: Public Education

The City of Thrall will periodically provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided by means of Public news paper and water billing inserts.

Section IV: Coordination with Regional Water Planning Groups

The service area of the City of Thrall is located within the Region G (name of regional water planning area or areas) and the City of Thrall (name of water supplier) has provided a copy of this Plan to the Region G (name of regional water planning group or groups).
(See P. 21 of the Handbook for Drought Contingency Planning)

Section V: Authorization

The Mayor (designated official; for example, the mayor, city manager, utility director, general manager, etc.), or his/her designee is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The Mayor, (designated official) or his/her designee shall have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

Section VI: Application

The provisions of this Plan shall apply to all persons, customers, and property utilizing water provided by the City of Thrall (name of supplier). The terms "person" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

Section VII: Definitions

For the purposes of this Plan, the following definitions shall apply:

Aesthetic water use: water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

Commercial and institutional water use: water use which is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants and office buildings.

Conservation: those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

Customer: any person, company, or organization using water supplied by the City of Thrall (name of water supplier).

Domestic water use: water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Even number address: street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

Industrial water use: the use of water in processes designed to convert materials or lower value into forms having greater usability and value.

Landscape irrigation use: water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

Non-essential water use: water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

(a) Irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
(c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
(d) Use of water to wash down buildings or structures for purposes other than immediate fire protection;
(e) Flushing gutters or permitting water to run or accumulate in any gutter or street;
(f) Use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi-type pools;
(g) Use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
(h) Failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
(i) Use of water from hydrants for construction purposes or any other purposes other than fire fighting.

Odd numbered address: street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

Section VIII: Criteria for Initiation and Termination of Drought Response Stages

The Mayor (designated official) or his/her designee shall monitor water supply and/or demand conditions on a Daily (*e.g., daily, weekly, monthly*) basis and shall determine when conditions warrant initiation or termination of each stage of the Plan, that is, when the specified "triggers" are reached.

The triggering criteria described below are based on known system capacity limits.

Stage 1 Triggers – MILD Water Shortage Conditions

Requirements for initiation
Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, defined in Section VII – Definitions, when Yearly May 1st. – September 30th.

Requirements for termination
Stage 1 of the Plan will be rescinded at the end of Sept. 30th.

Stage 2 Triggers – MODERATE Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section IX of this Plan when the ground storage does not gain over 20ft. and Notify TCEQ initiation and termination.

Requirements for termination
Stage 2 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 (e.g., 3) consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

Stage 3 Triggers – SEVERE Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 3 of this Plan when the ground storage does not gain over 15ft., notify TCEQ initiation and termination.

Requirements for termination
Stage 3 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 (e.g., 3) consecutive days. Upon termination of Stage 3, Stage 2 becomes operative.

Stage 4 Triggers – CRITICAL Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 4 of this Plan when the ground storage does not gain over the 10ft water level. Notify TCEQ of initiation termination.

Requirements for termination
Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 (e.g., 3) consecutive days. Upon termination of Stage 4, Stage 3 becomes operative.

Stage 5 Triggers – EMERGENCY Water Shortage Conditions

Requirements for initiation

Customers shall be required to comply with the requirements and restrictions for Stage 5 of this Plan when the Mayor (designated official), or his/her designee determines that a water supply emergency exists based on:

1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or

2. Natural or man-made contamination of the water supply source(s).

3. System outage notify TCEQ

Requirements for termination

Stage 5 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days.

Section IX: Drought Response Stages

The Mayor, or his/her designee, shall monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in Section VIII of this Plan, shall determine that a mild, moderate, severe, critical, emergency or water shortage condition exists and shall implement the following notification procedures:

Notification

Notification of the Public:
The Mayor or his/ here designee shall notify the public by means of: Public meeting and or Local news papers, or direct mail.

Additional Notification:
The Mayor or his/ her designee shall notify directly, or cause to be notified directly, the following individuals and entities:

Examples:
Mayor / Chairman and members of the City Council / Utility Board
Fire Chief(s)
City and/or County Emergency Management Coordinator(s)
County Judge & Commissioner(s)
State Disaster District / Department of Public Safety
TNRCC (required when mandatory *restrictions are imposed)*
Major water users
Critical water users, i.e. hospitals
Parks / street superintendents & public facilities managers
School
Note: The plan should specify direct notice only as appropriate to respective drought stages.

Stage 1 Response – MILD Water Shortage Conditions

Goal: Achieve a voluntary 10 percent reduction in daily water demand.

Supply Management Measures:

The City of Thrall will reduce the flushing of the water mains.

Voluntary Water Use Restrictions:

(a) Water customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours of midnight and 10:00 a.m. and 8:00 p.m to midnight on designated watering days.

(b) All operations of the City of Thrall shall adhere to water use restrictions prescribed for Stage 2 of the Plan.

(c) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

Stage 2 Response – MODERATE Water Shortage Conditions

Goal: Achieve a 4.0 percent reduction in the daily water demand.

Supply Management Measures:

Describe measures, if any, to be implemented directly by the City of Thrall to manage limited water supplies and/or reduce water demand. Examples include: reduced or discontinued flushing of water mains, reduced or discontinued irrigation of public landscaped areas; use of an alternative supply source(s); use of reclaimed water for non-potable purposes.

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply to all persons:

(a) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at anytime if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system.

(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rises. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.

(c) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight.

(d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

(e) Use of water from hydrants shall be limited to fire fighting, related activities, or other activities necessary to maintain public health, safety, and welfare, except that use of water from designated fire hydrants for construction purposes may be allowed under special permit from the City of Thrall.

(f) All restaurants are prohibited from serving water to patrons except upon request of the patron.

(g) The following uses of water are defined as non-essential and are prohibited:

1. Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
2. Use of water to wash down buildings or structures for purposes other than immediate fire protection;
3. Use of water for dust control;
4. Flushing gutters or permitting water to run or accumulate in any gutter or street; and
5. Failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

Stage 3 Response – SEVERE Water Shortage Conditions

Goal: Achieve an 8 percent reduction in the daily water demand.

Supply Management Measures:

Describe measures, if any, to be implemented directly by the City of Thrall (name of water supplier) to manage limited water supplies and/or reduce water demand. Examples include: reduced or discontinued flushing of water mains, reduced or discontinued irrigation of public landscaped areas; use of an alternative supply source(s); use of reclaimed water for non-potable purposes.

Water Use Restrictions. All requirements of Stage 2 shall remain in effect during Stage 3 except:

(a) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times.

(b) The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.

Stage 4 Response – CRITICAL Water Shortage Conditions

Goal: Achieve a 90 percent reduction in daily water demand.

Supply Management Measures:

Describe measures, if any, to be implemented directly by the City of Thrall to manage limited water supplies and/or reduce water demand. Examples include: reduced or discontinued flushing of water mains, reduced or discontinued irrigation of public landscaped areas; use of an alternative supply source(s); use of reclaimed water for non-potable purposes.

Water Use Restrictions. All requirements of Stage 2 and 3 shall remain in effect during Stage 4 except:

(a) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 6:00 a.m. and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, or drip irrigation only. The use of hose-end sprinklers or permanently installed automatic sprinkler systems are prohibited at all times.

(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations shall occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10 p.m.

(c) The filling, refilling, or adding of water to swimming pools, wading pools, and jacuzzi-type pools is prohibited.

(d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

(e) No application for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be approved, and time limits for approval of such applications are hereby suspended for such time as this drought response stage or a higher-numbered stage shall be in effect.

Stage 5 Response – EMERGENCY Water Shortage Conditions

Goal: Achieve a 98 percent reduction in daily water demand.

Supply Management Measures:

Describe measures, if any, to be implemented directly by the City of Thrall to manage limited water supplies and/or reduce water demand. The City of Thrall will check for water leaks.

Water Use Restrictions. All requirements of Stage 2, 3, and 4 shall remain in effect during Stage 5 except:

(a) Irrigation of landscaped areas is absolutely prohibited.

(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.

Section X: Enforcement

(a) No person shall knowingly or intentionally allow the use of water from the City of Thrall for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by the Mayor, or his/her designee, in accordance with provisions of this Plan.

(b) Any person who violates this Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine of not less than _____ dollars ($__) and not more than _____ dollars ($__). Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is convicted of three or more distinct violations of this Plan, the _____ (designated official) shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances shall be restored only upon payment of a re-connection charge, hereby established at $_____, and any other costs incurred by the _____ (name of water supplier) in discontinuing service. In addition, suitable assurance must be given to the _____ (designated official) that the same action shall not be repeated while the Plan is in effect. Compliance with this plan may also be sought through injunctive relief in the district court.

(c) Any person, including a person classified as a water customer of the _____ (name of water supplier), in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation. Parents shall be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents' control shall constitute a rebuttable presumption that the parent committed the violation, but any such parent may be excused if he/she proves that he/she had previously directed the child not to use the water as it was used in violation of this Plan and that the parent could not have reasonably known of the violation.

(d) Any employee of the _____ (name of water supplier), police officer, or other _____ employee designated by the _____ (designated official), may issue a citation to a person he/she reasonably believes to be in violation of this Ordinance. The citation shall be prepared in duplicate and shall contain the name and addresses of the alleged violator, if

known, the offense charged, and shall direct him/her to appear in the _____ (e.g., municipal court) on the date shown on the citation for which the date shall not be less than 3 days nor more than 5 days from the date the citation was issued. The alleged violator shall be served a copy of the citation. Service of the citation shall be complete upon delivery of the citation to the alleged violator, to an agent or employee of a violator, or to a person over 14 years of age who is a member of the violator's immediate family or is a resident of the violator's residence. The alleged violator shall appear in _____ (e.g., municipal court) to enter a plea of guilty or not guilty for the violation of this Plan. If the alleged violator fails to appear in _____ (e.g., municipal court), a warrant for his/her arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant. These cases shall be expedited and given preferential setting in _____ (e.g., municipal court) before all other cases.

Section XI: Variances

The Mayor, or his/her designee, may, in writing, grant temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance and if one or more of the following conditions are met:

(a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.
(b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Ordinance shall file a petition for variance with the _____ (name of water supplier) within 5 days after the Plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the _____ (designated official), or his/her designee, and shall include the following:

(a) Name and address of the petitioner(s).
(b) Purpose of water use.
(c) Specific provision(s) of the Plan from which the petitioner is requesting relief.
(d) Detailed statement as to how the specific provision of the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.
(e) Description of the relief requested.
(f) Period of time for which the variance is sought.
(g) Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.
(h) Other pertinent information.

Variances granted by the _____ (name of water supplier) shall be subject to the following conditions, unless waived or modified by the _____ (designated official) or his/her designee:

(a) Variances granted shall include a timetable for compliance.

(b) Variances granted shall expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

PASSED AND APPROVED ON THIS 9th DAY OF DECEMBER 2003.
CITY OF THRALL TEXAS

ATTEST:

Karen Pumphrey
City Secretary

BY:

James Dvorak
Mayor

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APPENDIX K

MAG PEAK FACTORS

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Appendix K: MAG Peak Factors

The BGRWPG did not seek to adopt a MAG peak factor for the purposes of the 2026 Brazos G Regional Water Plan, as none was requested.

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APPENDIX L WATER AVAILABILITY MODEL FILES

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Appendix L: Water Availability Model Files

The Water Availability Model (WAM) electronic files used in the development of source and strategy availabilities for water supply allocations for the purposes of the 2026 Brazos G Regional Water Plan are available for download from the Brazos G website.

Folder	Subfolder	Description of WAM Files
Reservoir Yields	BRA Reservoirs	Brazos G WAM (Period of Record: 1940-2018)
		Version Date: 10/1/2023
		2030 and 2080 sediment conditions
		2030 and 2080 return flows
		Subordination agreements included
		BRA System Operations removed
		Used to calculate current and future individual yields of existing BRA reservoirs
		Simulation Dates 1/21/2024 and 1/31/2024
	Non BRA Reservoirs	Brazos G WAM (Period of Record: 1940-2018)
		Version Date: 10/1/2023
		2030 and 2080 sediment conditions
		2030 and 2080 return flows
		Subordination agreements included
		BRA System Operations included
		Used to calculate current and future individual yields of existing non-BRA reservoirs
		Simulation Dates 1/21/2024 and 1/31/2024
	Reservoir Safe Yield	Brazos G WAM (Period of Record: 1940-2018)
		Version Date: 10/1/2023
		2030 and 2080 sediment conditions
		2030 and 2080 return flows
		Subordination agreements included
		BRA System Operations included

Folder	Subfolder	Description of WAM Files
		Used to calculate current and future individual safe yields of existing non-BRA reservoirs
		Simulation Dates 1/21/2024 and 1/31/2024
Run of River	ROR 2030	Brazos G WAM (Period of Record: 1940-2018)
		Version Date: 10/1/2023
		2030 sediment conditions
		2030 return flows
		Subordination agreements included
		BRA System Operations included
		Used to calculate current reliability of existing water rights with less than 5,000 acft of storage in the Brazos G Planning Area
		Simulation Dates 1/21/2024 and 1/31/2024
	ROR 2080	Brazos G WAM (Period of Record: 1940-2018)
		Version Date: 10/1/2023
		2080 sediment conditions
		2080 return flows
		Subordination agreements included
		BRA System Operations included
		Used to calculate future reliability of existing water rights with less than 5,000 acft of storage in the Brazos G Planning Area
		Simulation Dates 1/21/2024 and 1/31/2024
Water Management Strategies	Individual Strategies	TCEQ Brazos WAM Run 3 (Period of record: 1940-2018)
		Version Date: 10/1/2023
		Permitted storage
		No return flows
		Subordination agreements not included unless required for specific strategy
		BRA systems Operations included
		Used to calculate yields of water management strategies
		Simulation Date 2/3/2025

APPENDIX M IMPLEMENTATION

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Appendix M: Implementation of 2026 Plan Survey

Table M-1. Implementation of 2026 Plan Survey

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Abilene BRA Sys Ops Facilities Expansion	2020	Project Sponsor(s): Abilene	Recommended WMS Project	4394	Yes	Project/WMS started	NA	Other	Lack of drought conditions as driver	Unknown	NA
G	Alcoa Property Supply	2050	Project Sponsor(s): Georgetown	Recommended WMS Project	4384	NA	NA	NA	NA	NA	Unknown	NA
G	Bell County WCID 1- North Reuse	2030	Project Sponsor(s): Bell County WCID 1	Recommended WMS Project	2185	NA	NA	NA	NA	NA	Unknown	NA
G	Bell County WCID 1- South Reuse	2030	Project Sponsor(s): Bell County WCID 1	Recommended WMS Project	2186	NA	NA	NA	NA	NA	Unknown	NA
G	Belton to Stillhouse Pipeline-BRA	2030	Project Sponsor(s): Brazos River Authority	Recommended WMS Project	1981	NA	NA	NA	NA	NA	Unknown	NA
G	Blaine Aquifer Development - Fisher County Mining	2020	Project Sponsor(s): Mining (Fisher)	Recommended WMS Project	4265	NA	NA	NA	NA	NA	Unknown	NA
G	Blaine Aquifer Development - Knox County Irrigation	2020	Project Sponsor(s): Irrigation (Knox)	Recommended WMS Project	1797	NA	NA	NA	NA	NA	Unknown	NA
G	Blaine Aquifer Development - Knox County Manufacturing	2020	Project Sponsor(s): Manufacturing (Knox)	Recommended WMS Project	4267	NA	NA	NA	NA	NA	Unknown	NA
G	Blaine Aquifer Development - Knox County Mining	2020	Project Sponsor(s): Mining (Knox)	Recommended WMS Project	1796	NA	NA	NA	NA	NA	Unknown	NA
G	Blaine Aquifer Development - Stonewall	2020	Project Sponsor(s):	Recommended WMS Project	4271	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
	County Manufacturing		Manufacturing (Stonewall)									
G	Blaine Aquifer Development - Stonewall County Mining	2020	Project Sponsor(s): Mining (Stonewall)	Recommended WMS Project	1820	NA	NA	NA	NA	NA	Unknown	NA
G	Bosque County-Regional Water Supply Project	2030	Project Sponsor(s): Childress Creek WSC; Valley Mills; Meridian; Clifton; Municipal county-other (Bosque)	Recommended WMS Project	1953	NA	NA	NA	NA	NA	Unknown	NA
G	BRA System Operation--Surplus	2020	WMS Seller: Abilene; WMS Supply Recipient: Baird	Recommended WMS Supply Without WMS Project	106098	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	NA	NA
G	BRA System Operation--Surplus	2020	WMS Seller: Abilene; WMS Supply Recipient: Clyde	Recommended WMS Supply Without WMS Project	106100	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	Unknown	NA
G	BRA System Operation--Surplus	2020	WMS Seller: Abilene; WMS Supply Recipient: Irrigation, Taylor	Recommended WMS Supply Without WMS Project	111388	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	NA	NA
G	BRA System Operation--Surplus	2020	WMS Seller: Abilene; WMS Supply Recipient: Merkel	Recommended WMS Supply Without WMS Project	106104	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	Unknown	NA
G	BRA System Operation--Surplus	2030	WMS Seller: Abilene; WMS Supply Recipient: Mining, Taylor	Recommended WMS Supply Without WMS Project	111589	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	NA	NA
G	BRA System Operation--Surplus	2020	WMS Seller: Abilene; WMS Supply	Recommended WMS Supply	106105	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	NA	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
			Recipient: Potosi WSC	Without WMS Project								
G	BRA System Operation--Surplus	2020	WMS Seller: Abilene; WMS Supply Recipient: Steamboat Mountain WSC	Recommended WMS Supply Without WMS Project	106106	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	NA	NA
G	BRA System Operation--Surplus	2030	WMS Seller: Abilene; WMS Supply Recipient: Tye	Recommended WMS Supply Without WMS Project	106107	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	Unknown	NA
G	BRA System Operation--Surplus	2050	WMS Seller: Abilene; WMS Supply Recipient: View Caps WSC	Recommended WMS Supply Without WMS Project	106126	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	NA	NA
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Brenham	Recommended WMS Supply Without WMS Project	106058	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Double Diamond Utilities	Recommended WMS Supply Without WMS Project	106094	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Irrigation, Brazos	Recommended WMS Supply Without WMS Project	106084	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Irrigation, Falls	Recommended WMS Supply Without WMS Project	106078	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Irrigation, Hood	Recommended WMS Supply Without WMS Project	106065	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Irrigation, Johnson	Recommended WMS Supply Without WMS Project	106090	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient:	Recommended WMS Supply	106068	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
			Manufacturing, Palo Pinto	Without WMS Project								
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Mining, Bosque	Recommended WMS Supply Without WMS Project	106087	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Mining, Somervell	Recommended WMS Supply Without WMS Project	106075	Yes	Project/WMS started	NA	Other	NA	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Possum Kingdom WSC	Recommended WMS Supply Without WMS Project	106051	Yes	Project/WMS started	NA	Other	Unknown	Unknown	Partial Implementation
G	BRA System Operation--Surplus	2020	WMS Supply Recipient: Sportsmans World MUD	Recommended WMS Supply Without WMS Project	106044	Yes	Project/WMS started	NA	Other	Unknown	NA	Partial Implementation
G	Brushy Creek Reservoir-Marlin	2040	Project Sponsor(s): Marlin	Recommended WMS Project	1901	Yes	Project/WMS started	NA	Economic feasibility/financing	NA	Unknown	Online Decade: 2040
G	Brushy Creek RUA Water Supply	2020	Project Sponsor(s): Cedar Park; Round Rock; Liberty Hill; Leander	Recommended WMS Project	1960	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Bryan ASR (Carrizo-Wilcox)	2030	Project Sponsor(s): Bryan	Recommended WMS Project	1853	Yes	Project/WMS not started	new online decade is 2030	NA	NA	Unknown	NA
G	Carrizo Aquifer Development - Bistone MWSD	2060	Project Sponsor(s): Bistone Municipal Water Supply District	Recommended WMS Project	1832	NA	NA	NA	NA	NA	Unknown	NA
G	Carrizo Aquifer Development - Lee County Mining	2020	Project Sponsor(s): Mining (Lee)	Recommended WMS Project	4259	NA	NA	NA	NA	NA	Unknown	NA
G	Carrizo Aquifer Development - Limestone County Manufacturing	2020	Project Sponsor(s): Manufacturing (Limestone)	Recommended WMS Project	4260	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Carrizo Aquifer Development - Limestone County Steam-Electric	2020	Project Sponsor(s): Steam-electric power (Limestone)	Recommended WMS Project	4261	NA	NA	NA	NA	NA	Unknown	NA
G	Carrizo Aquifer Development - Robertson County WSC	2020	Project Sponsor(s): Robertson County WSC	Recommended WMS Project	3297	Yes	Project/WMS started	NA	Contract/permit constraints	NA	Unknown	applied for a permit and is presently at 80% Design.
G	Carrizo Aquifer Development - Rockdale	2020	Project Sponsor(s): Rockdale	Recommended WMS Project	4262	Yes	Project/WMS started	NA	Other	Partial implementation	Unknown	NA
G	Carrizo Aquifer Development - Southwest Milam WSC	2030	Project Sponsor(s): Southwest Milam WSC	Recommended WMS Project	4263	NA	NA	NA	NA	NA	Unknown	NA
G	Carrizo GW Development for Bryan in Brazos County	2030	Project Sponsor(s): Bryan	Recommended WMS Project	1748	NA	NA	NA	NA	NA	Unknown	NA
G	Carrizo GW Development for College Station in Brazos County	2040	Project Sponsor(s): College Station	Recommended WMS Project	4283	NA	NA	NA	NA	NA	Unknown	NA
G	Cedar Ridge Reservoir	2040	Project Sponsor(s): Abilene	Recommended WMS Project	1897	Yes	Project/WMS no longer being pursued	online decade be changed to 2040	Shift in timeline	NA	Unknown	NA
G	City of Cameron Little River Intake	2030	Project Sponsor(s): Cameron	Recommended WMS Project	4388	NA	NA	NA	NA	NA	Unknown	NA
G	College Station - DPR	2030	Project Sponsor(s): College Station	Recommended WMS Project	2450	Yes	Project/WMS started	NA	Other	NA	Unknown	No implementation yet
G	College Station ASR (Reuse)	2020	Project Sponsor(s): College Station	Recommended WMS Project	1847	Yes	Project/WMS not started	NA	Other	NA	Unknown	NA
G	Conservation - Bethesda WSC	2020	WUG Reducing Demand: Bethesda WSC	Recommended Demand Reduction Strategy Without WMS Project	3845	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Conservation - Brandon-Irene WSC	2050	WUG Reducing Demand: Brandon Irene WSC	Recommended Demand Reduction Strategy Without WMS Project	4011	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation - Burleson	2020	WUG Reducing Demand: Burleson	Recommended Demand Reduction Strategy Without WMS Project	4033	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation - Files Valley WSC	2030	WUG Reducing Demand: Files Valley WSC	Recommended Demand Reduction Strategy Without WMS Project	4327	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation - Johnson County SUD	2020	WUG Reducing Demand: Johnson County SUD	Recommended Demand Reduction Strategy Without WMS Project	5411	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation - Meter Enhancement Program - Waco	2020	Project Sponsor(s): Waco	Recommended WMS Project	2859	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Conservation - Mineral Wells	2020	WUG Reducing Demand: Mineral Wells	Recommended Demand Reduction Strategy Without WMS Project	5665	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation - North Rural WSC	2030	WUG Reducing Demand: North Rural WSC	Recommended Demand Reduction Strategy Without WMS Project	23692	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation - Post Oak SUD	2040	WUG Reducing Demand: Post Oak SUD	Recommended Demand Reduction Strategy	23725	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
				Without WMS Project								
G	Conservation - Venus	2050	WUG Reducing Demand: Venus	Recommended Demand Reduction Strategy Without WMS Project	3981	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation, Irrigation Restrictions – Bethesda WSC	2020	WUG Reducing Demand: Bethesda WSC	Recommended Demand Reduction Strategy Without WMS Project	25601	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation, Irrigation Restrictions – Burleson	2020	WUG Reducing Demand: Burleson	Recommended Demand Reduction Strategy Without WMS Project	25649	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation, Irrigation Restrictions – Mineral Wells	2020	WUG Reducing Demand: Mineral Wells	Recommended Demand Reduction Strategy Without WMS Project	26019	NA	NA	NA	NA	NA	Unknown	NA
G	Conservation, Irrigation Restrictions – Venus	2030	WUG Reducing Demand: Venus	Recommended Demand Reduction Strategy Without WMS Project	26458	NA	NA	NA	NA	NA	Unknown	NA
G	Coryell County Off Channel Reservoir-BRA	2050	Project Sponsor(s): Multi County WSC	Recommended WMS Project	1890	No	Project/WMS not started	recommend moving WMS to 2050	Shift in timeline	NA	NA	new online decade is 2030
G	Cross Timbers Aquifer Development - Throckmorton County Irrigation	2020	Project Sponsor(s): Irrigation (Throckmorton)	Recommended WMS Project	1814	NA	NA	NA	NA	NA	Unknown	NA
G	Cross Timbers Aquifer Development -	2020	Project Sponsor(s): Mining	Recommended WMS Project	1821	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
	Throckmorton County Mining		(Throckmorton)									
G	Cross Timbers Aquifer Development - Young County Irrigation	2020	Project Sponsor(s): Irrigation (Young)	Recommended WMS Project	1842	NA	NA	NA	NA	NA	Unknown	NA
G	Cross Timbers Aquifer Development - Young County Livestock	2020	Project Sponsor(s): Livestock (Young)	Recommended WMS Project	4279	NA	NA	NA	NA	NA	Unknown	NA
G	Cross Timbers Aquifer Development - Young County Mining	2020	Project Sponsor(s): Mining (Young)	Recommended WMS Project	1835	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Cedar Park	Recommended Demand Reduction Strategy Without WMS Project	10993	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Corix Utilities Texas Inc	Recommended Demand Reduction Strategy Without WMS Project	30815	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: County-Other, Williamson	Recommended Demand Reduction Strategy Without WMS Project	30847	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Georgetown	Recommended Demand Reduction Strategy Without WMS Project	30878	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Kempner WSC	Recommended Demand Reduction Strategy	30918	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
				Without WMS Project								
G	Drought Management	2020	WUG Reducing Demand: Leander	Recommended Demand Reduction Strategy Without WMS Project	10825	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Lee County WSC	Recommended Demand Reduction Strategy Without WMS Project	11753	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Round Rock	Recommended Demand Reduction Strategy Without WMS Project	10999	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Williamson County WSID 3	Recommended Demand Reduction Strategy Without WMS Project	30987	NA	NA	NA	NA	NA	Unknown	NA
G	Drought Management	2020	WUG Reducing Demand: Williamson Travis Counties MUD 1	Recommended Demand Reduction Strategy Without WMS Project	11935	NA	NA	NA	NA	NA	Unknown	NA
G	East Williamson County Water Project	2020	Project Sponsor(s): Municipal county-other (Williamson); Sonterra MUD	Recommended WMS Project	1957	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Edwards Aquifer Development - Bell County Irrigation	2020	Project Sponsor(s): Irrigation (Bell)	Recommended WMS Project	1744	NA	NA	NA	NA	NA	Unknown	NA

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G	Edwards Aquifer Development - Bell County Mining	2070	Project Sponsor(s): Mining (Bell)	Recommended WMS Project	1742	NA	NA	NA	NA	NA	Unknown	NA
G	Edwards Aquifer Development- Williamson Irrigation	2020	Project Sponsor(s): Irrigation (Williamson)	Recommended WMS Project	1831	NA	NA	NA	NA	NA	Unknown	NA
G	Ellenburger San-Saba Aquifer Development - Lampasas County Mining	2020	Project Sponsor(s): Mining (Lampasas)	Recommended WMS Project	4276	NA	NA	NA	NA	NA	Unknown	NA
G	Expand WTP (1.2 MGD) - Gatesville	2020	Project Sponsor(s): Gatesville	Recommended WMS Project	4287	Yes	Project/WMS started	NA	Other	Partial implementation of the WMSP. Sponsor evaluating lagoon expansion for increased production, not WTP.	NA	NA
G	Expand WTP (1.8 MGD) - Kempner WSC	2020	Project Sponsor(s): Kempner WSC	Recommended WMS Project	4288	Yes	Project/WMS completed	NA	NA	NA	NA	expected to be online by the end of 2023 or early 2024.
G	Expand WTP (2.1 MGD) - Belton	2070	Project Sponsor(s): Belton	Recommended WMS Project	4285	NA	NA	NA	NA	NA	Unknown	NA
G	Expand WTP (21 MGD)- Georgetown	2030	Project Sponsor(s): Georgetown	Recommended WMS Project	1862	NA	NA	NA	NA	NA	Unknown	NA
G	Expand WTP (23.2 MGD) - Abilene	2030	Project Sponsor(s): Abilene	Recommended WMS Project	1864	Yes	Project/WMS not started	Not needed until Cedar Creek Reservoir comes online in 2040.	Shift in timeline	NA	NA	new online decade is 2040
G	Expand WTP (4 MGD)- Robinson	2020	Project Sponsor(s): Robinson	Recommended WMS Project	1858	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Expand WTP (4.2 MGD) - Temple	2020	Project Sponsor(s): Temple	Recommended WMS Project	4286	Yes	Project/WMS started	NA	NA	NA	Unknown	under construction

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G	Expand WTP SWATS - Acton MUD	2040	Project Sponsor(s): Acton MUD	Recommended WMS Project	4289	NA	NA	NA	NA	NA	Unknown	NA
G	Expand WTP SWATS - Johnson County SUD	2040	Project Sponsor(s): Johnson County SUD	Recommended WMS Project	4291	NA	NA	NA	NA	NA	Unknown	NA
G	Expansion of Current Groundwater Supplies - Gulf Coast Aquifer	2050	WMS Supply Recipient: Corix Utilities Texas Inc	Recommended WMS Supply Without WMS Project	91923	NA	NA	NA	NA	NA	Unknown	NA
G	Falls County Irrigation Reallocation to Falls County Mining	2020	WMS Supply Recipient: Mining, Falls	Recommended WMS Supply Without WMS Project	33779	NA	NA	NA	NA	NA	Unknown	NA
G	FHLM WSC BRA Sys Ops Facilities	2030	Project Sponsor(s): FHLM WSC	Recommended WMS Project	4395	NA	NA	NA	NA	NA	Unknown	NA
G	Granbury North Water Treatment Plant	2030	Project Sponsor(s): Granbury	Recommended WMS Project	4396	NA	NA	NA	NA	NA	Unknown	NA
G	Groesbeck Off Channel Reservoir-Groesbeck	2030	Project Sponsor(s): Groesbeck	Recommended WMS Project	1891	NA	NA	NA	NA	NA	Unknown	NA
G	Gulf Coast Aquifer Development - Grimes County Irrigation	2020	Project Sponsor(s): Irrigation (Grimes)	Recommended WMS Project	4274	NA	NA	NA	NA	NA	Unknown	NA
G	Gulf Coast Aquifer Development - Grimes County Mining	2020	Project Sponsor(s): Mining (Grimes)	Recommended WMS Project	4273	NA	NA	NA	NA	NA	Unknown	NA
G	Gulf Coast Aquifer Development - Washington County Mining	2020	Project Sponsor(s): Mining (Washington)	Recommended WMS Project	1824	Yes	Project/WMS started	NA	Water supply constraints	NA	Unknown	partial implementation, will be continued as needed

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G	Gulf Coast Aquifer Development-Brenham	2020	Project Sponsor(s): Brenham	Recommended WMS Project	2889	Yes	Project/WMS started	NA	Water supply constraints	NA	Unknown	partial implementation, will be continued as needed
G	Gulf Coast Aquifer Development-Corix Utilities Texas Inc	2020	Project Sponsor(s): Central Washington County WSC	Recommended WMS Project	2893	Yes	Project/WMS started	NA	Water supply constraints	NA	Unknown	partial implementation, will be continued as needed
G	Hamilton Reduction To Multi WSC	2020	WMS Seller: Hamilton; WMS Supply Recipient: Multi County WSC	Recommended WMS Supply Without WMS Project	32742	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Bell	Recommended Demand Reduction Strategy Without WMS Project	9889	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Burleson	Recommended Demand Reduction Strategy Without WMS Project	9895	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Erath	Recommended Demand Reduction Strategy Without WMS Project	31467	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Lampasas	Recommended Demand Reduction Strategy Without WMS Project	31477	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Limestone	Recommended Demand Reduction Strategy	31479	NA	NA	NA	NA	NA	Unknown	NA

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				Without WMS Project								
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, McLennan	Recommended Demand Reduction Strategy Without WMS Project	9899	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Nolan	Recommended Demand Reduction Strategy Without WMS Project	9901	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Stonewall	Recommended Demand Reduction Strategy Without WMS Project	31489	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Manufacturing, Washington	Recommended Demand Reduction Strategy Without WMS Project	9921	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Bell	Recommended Demand Reduction Strategy Without WMS Project	9929	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Bosque	Recommended Demand Reduction Strategy Without WMS Project	9931	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Callahan	Recommended Demand Reduction Strategy Without WMS Project	9937	NA	NA	NA	NA	NA	Unknown	NA

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G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Comanche	Recommended Demand Reduction Strategy Without WMS Project	9939	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Coryell	Recommended Demand Reduction Strategy Without WMS Project	9941	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Eastland	Recommended Demand Reduction Strategy Without WMS Project	9943	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Falls	Recommended Demand Reduction Strategy Without WMS Project	9945	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Fisher	Recommended Demand Reduction Strategy Without WMS Project	10123	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Grimes	Recommended Demand Reduction Strategy Without WMS Project	9947	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Hamilton	Recommended Demand Reduction Strategy Without WMS Project	9991	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Haskell	Recommended Demand Reduction	9949	NA	NA	NA	NA	NA	Unknown	NA

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				Strategy Without WMS Project								
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Hill	Recommended Demand Reduction Strategy Without WMS Project	9951	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Hood	Recommended Demand Reduction Strategy Without WMS Project	9953	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Johnson	Recommended Demand Reduction Strategy Without WMS Project	9955	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Jones	Recommended Demand Reduction Strategy Without WMS Project	9957	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2030	WUG Reducing Demand: Mining, Knox	Recommended Demand Reduction Strategy Without WMS Project	9959	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Lampasas	Recommended Demand Reduction Strategy Without WMS Project	9961	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Lee	Recommended Demand Reduction Strategy Without WMS Project	9963	NA	NA	NA	NA	NA	Unknown	NA

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G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Limestone	Recommended Demand Reduction Strategy Without WMS Project	9965	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, McLennan	Recommended Demand Reduction Strategy Without WMS Project	9967	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Nolan	Recommended Demand Reduction Strategy Without WMS Project	9969	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Palo Pinto	Recommended Demand Reduction Strategy Without WMS Project	31494	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Shackelford	Recommended Demand Reduction Strategy Without WMS Project	9973	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Somervell	Recommended Demand Reduction Strategy Without WMS Project	9975	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Stephens	Recommended Demand Reduction Strategy Without WMS Project	9977	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand:	Recommended Demand Reduction	9979	NA	NA	NA	NA	NA	Unknown	NA

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			Mining, Stonewall	Strategy Without WMS Project								
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Taylor	Recommended Demand Reduction Strategy Without WMS Project	9981	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Throckmorton	Recommended Demand Reduction Strategy Without WMS Project	9983	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Washington	Recommended Demand Reduction Strategy Without WMS Project	9985	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Williamson	Recommended Demand Reduction Strategy Without WMS Project	9987	NA	NA	NA	NA	NA	Unknown	NA
G	Industrial Water Conservation	2020	WUG Reducing Demand: Mining, Young	Recommended Demand Reduction Strategy Without WMS Project	9989	NA	NA	NA	NA	NA	Unknown	NA
G	Interconnect from Abilene to Sweetwater	2040	Project Sponsor(s): Sweetwater	Recommended WMS Project	1944	No	Project/WMS no longer being pursued	delay starting decade to 2040	Shift in timeline	NA	NA	NA
G	Interconnect from Killeen to Harker Heights	2070	Project Sponsor(s): Harker Heights	Recommended WMS Project	1888	NA	NA	NA	NA	NA	Unknown	NA
G	Interconnect from Waco to Mart	2020	Project Sponsor(s): Mart	Recommended WMS Project	1907	Yes	Project/WMS started	NA	NA	NA	Unknown	Local Water Resources Group (County, Waco, others) have this project in plan

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												as an option, and is exploring other options
G	Interconnect from Waco to North Bosque	2030	Project Sponsor(s): North Bosque WSC	Recommended WMS Project	1911	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Bell	Recommended Demand Reduction Strategy Without WMS Project	9807	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Bosque	Recommended Demand Reduction Strategy Without WMS Project	9809	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Burleson	Recommended Demand Reduction Strategy Without WMS Project	31396	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Comanche	Recommended Demand Reduction Strategy Without WMS Project	9813	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Grimes	Recommended Demand Reduction Strategy Without WMS Project	31436	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Haskell	Recommended Demand Reduction Strategy Without WMS Project	9819	NA	NA	NA	NA	NA	Unknown	NA

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G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Hill	Recommended Demand Reduction Strategy Without WMS Project	31443	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Johnson	Recommended Demand Reduction Strategy Without WMS Project	31450	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Jones	Recommended Demand Reduction Strategy Without WMS Project	9821	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Knox	Recommended Demand Reduction Strategy Without WMS Project	9823	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Lampasas	Recommended Demand Reduction Strategy Without WMS Project	9825	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Milam	Recommended Demand Reduction Strategy Without WMS Project	31457	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Nolan	Recommended Demand Reduction Strategy Without WMS Project	9829	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand:	Recommended Demand Reduction	9831	NA	NA	NA	NA	NA	Unknown	NA

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			Irrigation, Palo Pinto	Strategy Without WMS Project								
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Robertson	Recommended Demand Reduction Strategy Without WMS Project	9833	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Stephens	Recommended Demand Reduction Strategy Without WMS Project	9835	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Taylor	Recommended Demand Reduction Strategy Without WMS Project	9837	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Throckmorton	Recommended Demand Reduction Strategy Without WMS Project	31462	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Williamson	Recommended Demand Reduction Strategy Without WMS Project	9839	NA	NA	NA	NA	NA	Unknown	NA
G	Irrigation Water Conservation	2020	WUG Reducing Demand: Irrigation, Young	Recommended Demand Reduction Strategy Without WMS Project	9841	NA	NA	NA	NA	NA	Unknown	NA
G	Lake Aquilla Reallocation-BRA	2020	Project Sponsor(s): Brazos River Authority	Recommended WMS Project	1954	Yes	Project/WMS started	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Lake Georgetown ASR	2040	Project Sponsor(s): Georgetown	Recommended WMS Project	4264	NA	NA	NA	NA	NA	Unknown	NA
G	Lake Granger ASR	2020	Project Sponsor(s): Brazos River Authority	Recommended WMS Project	1854	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Lake Granger Augmentation-Phase 2-BRA	2020	Project Sponsor(s): Brazos River Authority	Recommended WMS Project	1949	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Lake Whitney Reallocation to Williamson County	2050	Project Sponsor(s): Brazos River Authority	Recommended WMS Project	4277	NA	NA	NA	NA	NA	Unknown	NA
G	**Marble Falls Aquifer Development - Lampasas County Irrigation**	2020	Project Sponsor(s): Irrigation (Lampasas)	Recommended WMS Project	4275	NA	NA	NA	NA	NA	Unknown	NA
G	McLennan County ASR (Waco)	2030	Project Sponsor(s): Waco	Recommended WMS Project	1851	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Conservation - Young County Other	2030	WUG Reducing Demand: County-Other, Young	Recommended Demand Reduction Strategy Without WMS Project	19677	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Abilene	2030	Project Sponsor(s): Abilene	Recommended WMS Project	2774	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Albany	2030	Project Sponsor(s): Albany	Recommended WMS Project	2775	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Aqua WSC	2030	Project Sponsor(s): Aqua WSC	Recommended WMS Project	3909	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation -	2030	Project Sponsor(s):	Recommended WMS Project	2776	NA	NA	NA	NA	NA	Unknown	NA

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	Armstrong WSC		Armstrong WSC									
G	Municipal Water Conservation - Aspermont	2030	Project Sponsor(s): Aspermont	Recommended WMS Project	2777	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bartlett	2030	Project Sponsor(s): Bartlett	Recommended WMS Project	2780	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Baylor SUD	2030	Project Sponsor(s): Baylor SUD	Recommended WMS Project	3910	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bell County WCID 3	2030	Project Sponsor(s): Bell County WCID 3	Recommended WMS Project	3869	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bell Milam Falls WSC	2030	Project Sponsor(s): Bell Milam Falls WSC	Recommended WMS Project	3870	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Belton	2030	Project Sponsor(s): Belton	Recommended WMS Project	2781	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bethesda WSC	2030	Project Sponsor(s): Bethesda WSC	Recommended WMS Project	2782	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bistone Municipal WSD	2030	Project Sponsor(s): Bistone Municipal Water Supply District	Recommended WMS Project	3865	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Breckenridge	2030	Project Sponsor(s): Breckenridge	Recommended WMS Project	2783	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water	2030	Project Sponsor(s): Bremond	Recommended WMS Project	3864	NA	NA	NA	NA	NA	Unknown	NA

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	Conservation - Bremond											
G	Municipal Water Conservation - Brenham	2030	Project Sponsor(s): Brenham	Recommended WMS Project	2785	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bruceville Eddy	2030	Project Sponsor(s): Bruceville Eddy	Recommended WMS Project	2786	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Brushy Creek MUD	2030	Project Sponsor(s): Brushy Creek MUD	Recommended WMS Project	2788	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Bryan	2030	Project Sponsor(s): Bryan	Recommended WMS Project	2789	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Caldwell	2030	Project Sponsor(s): Caldwell	Recommended WMS Project	2790	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Cameron	2030	Project Sponsor(s): Cameron	Recommended WMS Project	2792	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Cedar Park	2030	Project Sponsor(s): Cedar Park	Recommended WMS Project	2793	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Cego-Durango WSC	2030	Project Sponsor(s): Cego-Durango WSC	Recommended WMS Project	3871	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Central Texas College District	2030	Project Sponsor(s): Central Texas College District	Recommended WMS Project	3872	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Cisco	2030	Project Sponsor(s): Cisco	Recommended WMS Project	2796	NA	NA	NA	NA	NA	Unknown	NA

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G	Municipal Water Conservation - Cleburne	2030	Project Sponsor(s): Cleburne	Recommended WMS Project	2797	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Clifton	2030	Project Sponsor(s): Clifton	Recommended WMS Project	2798	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - College Station	2030	Project Sponsor(s): College Station	Recommended WMS Project	2799	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Coolidge	2030	Project Sponsor(s): Coolidge	Recommended WMS Project	2800	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Coryell City Water Supply District	2030	Project Sponsor(s): Coryell City Water Supply District	Recommended WMS Project	2801	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - County-Other, Bell	2030	Project Sponsor(s): Municipal county-other (Bell)	Recommended WMS Project	2802	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - County-Other, Williamson	2030	Project Sponsor(s): Municipal county-other (Williamson)	Recommended WMS Project	3874	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Crawford	2030	Project Sponsor(s): Crawford	Recommended WMS Project	2804	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Cross Country WSC	2030	Project Sponsor(s): Cross Country WSC	Recommended WMS Project	2805	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Cross Plains	2030	Project Sponsor(s): Cross Plains	Recommended WMS Project	2806	NA	NA	NA	NA	NA	Unknown	NA

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G	Municipal Water Conservation - Double Diamond Utilities	2030	Project Sponsor(s): Double Diamond Utilities	Recommended WMS Project	3877	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - East Crawford WSC	2030	Project Sponsor(s): East Crawford WSC	Recommended WMS Project	3878	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Fern Bluff MUD	2030	Project Sponsor(s): Fern Bluff MUD	Recommended WMS Project	2808	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Flat WSC	2030	Project Sponsor(s): Flat WSC	Recommended WMS Project	3883	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Fort Gates WSC	2030	Project Sponsor(s): Fort Gates WSC	Recommended WMS Project	3884	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Fort Hood	2030	Project Sponsor(s): Fort Hood	Recommended WMS Project	2809	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Gatesville	2030	Project Sponsor(s): Gatesville	Recommended WMS Project	2810	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Georgetown	2030	Project Sponsor(s): Georgetown	Recommended WMS Project	2812	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Giddings	2030	Project Sponsor(s): Giddings	Recommended WMS Project	2813	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Glen Rose	2030	Project Sponsor(s): Glen Rose	Recommended WMS Project	2814	NA	NA	NA	NA	NA	Unknown	NA

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G	Municipal Water Conservation - Gordon	2030	Project Sponsor(s): Gordon	Recommended WMS Project	3885	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Graham	2030	Project Sponsor(s): Graham	Recommended WMS Project	2815	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Hamilton	2030	Project Sponsor(s): Hamilton	Recommended WMS Project	2817	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Hamlin	2030	Project Sponsor(s): Hamlin	Recommended WMS Project	2818	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Harker Heights	2030	Project Sponsor(s): Harker Heights	Recommended WMS Project	2819	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Hearne	2030	Project Sponsor(s): Hearne	Recommended WMS Project	2820	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Hewitt	2030	Project Sponsor(s): Hewitt	Recommended WMS Project	2821	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Highland Park WSC	2030	Project Sponsor(s): Highland Park WSC	Recommended WMS Project	3887	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Hillsboro	2030	Project Sponsor(s): Hillsboro	Recommended WMS Project	2822	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Jayton	2030	Project Sponsor(s): Jayton	Recommended WMS Project	2823	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation -	2030	Project Sponsor(s): Jonah Water SUD	Recommended WMS Project	3888	NA	NA	NA	NA	NA	Unknown	NA

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	Jonah Water SUD											
G	Municipal Water Conservation - Kempner WSC	2030	Project Sponsor(s): Kempner WSC	Recommended WMS Project	2825	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Knox City	2030	Project Sponsor(s): Knox City	Recommended WMS Project	2826	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Lawn	2030	Project Sponsor(s): Lawn	Recommended WMS Project	3889	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Lexington	2030	Project Sponsor(s): Lexington	Recommended WMS Project	2828	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Little Elm Valley WSC	2030	Project Sponsor(s): Little Elm Valley WSC	Recommended WMS Project	3890	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Lorena	2030	Project Sponsor(s): Lorena	Recommended WMS Project	2831	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Mansfield	2030	Project Sponsor(s): Mansfield	Recommended WMS Project	3891	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Manville WSC	2030	Project Sponsor(s): Manville WSC	Recommended WMS Project	3892	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Marlin	2030	Project Sponsor(s): Marlin	Recommended WMS Project	2832	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Mineral Wells	2030	Project Sponsor(s): Mineral Wells	Recommended WMS Project	2834	NA	NA	NA	NA	NA	Unknown	NA

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G	Municipal Water Conservation - Munday	2030	Project Sponsor(s): Munday	Recommended WMS Project	2835	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Mustang Valley WSC	2030	Project Sponsor(s): Mustang Valley WSC	Recommended WMS Project	3894	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Navasota	2030	Project Sponsor(s): Navasota	Recommended WMS Project	2836	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - North Bosque WSC	2030	Project Sponsor(s): North Bosque WSC	Recommended WMS Project	2838	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - North Milam WSC	2030	Project Sponsor(s): North Milam WSC	Recommended WMS Project	3895	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Pflugerville	2030	Project Sponsor(s): Pflugerville	Recommended WMS Project	3911	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Possum Kingdom WSC	2030	Project Sponsor(s): Possum Kingdom WSC	Recommended WMS Project	2839	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Prairie Hill WSC	2030	Project Sponsor(s): Prairie Hill WSC	Recommended WMS Project	3896	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Ranger	2030	Project Sponsor(s): Ranger	Recommended WMS Project	2840	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Red River	2030	Project Sponsor(s): Red River	Recommended WMS Project	3897	NA	NA	NA	NA	NA	Unknown	NA

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	Authority of Texas		Authority of Texas									
G	Municipal Water Conservation - Robinson	2030	Project Sponsor(s): Robinson	Recommended WMS Project	2841	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Roby	2030	Project Sponsor(s): Roby	Recommended WMS Project	2842	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Rockdale	2030	Project Sponsor(s): Rockdale	Recommended WMS Project	2843	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Round Rock	2030	Project Sponsor(s): Round Rock	Recommended WMS Project	2845	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Salado WSC	2030	Project Sponsor(s): Salado WSC	Recommended WMS Project	2846	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Snook	2030	Project Sponsor(s): Snook	Recommended WMS Project	2847	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Somerville	2030	Project Sponsor(s): Somerville	Recommended WMS Project	2852	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Southwest Milam WSC	2030	Project Sponsor(s): Southwest Milam WSC	Recommended WMS Project	2848	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Sportsmans World MUD	2030	Project Sponsor(s): Sportsmans World MUD	Recommended WMS Project	3898	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Stamford	2030	Project Sponsor(s): Stamford	Recommended WMS Project	2849	NA	NA	NA	NA	NA	Unknown	NA

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G	Municipal Water Conservation - Strawn	2030	Project Sponsor(s): Strawn	Recommended WMS Project	2850	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Taylor	2030	Project Sponsor(s): Taylor	Recommended WMS Project	2853	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - TDCJ Luther Units	2030	Project Sponsor(s): TDCJ Luther Units	Recommended WMS Project	3899	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - TDCJ W Pack Unit	2030	Project Sponsor(s): TDCJ W Pack Unit	Recommended WMS Project	3900	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Temple	2030	Project Sponsor(s): Temple	Recommended WMS Project	2854	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Texas A&M University	2030	Project Sponsor(s): Texas A and M University	Recommended WMS Project	3901	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Texas State Technical College	2030	Project Sponsor(s): Texas State Technical College	Recommended WMS Project	3902	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Throckmorton	2030	Project Sponsor(s): Throckmorton	Recommended WMS Project	2856	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Twin Creek WSC	2030	Project Sponsor(s): Twin Creek WSC	Recommended WMS Project	3903	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water	2030	Project Sponsor(s): Valley Mills	Recommended WMS Project	2857	NA	NA	NA	NA	NA	Unknown	NA

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	Conservation - Valley Mills											
G	Municipal Water Conservation - Venus	2030	Project Sponsor(s): Venus	Recommended WMS Project	2858	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Waco	2030	Project Sponsor(s): Waco	Recommended WMS Project	2860	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Walsh Ranch MUD	2030	Project Sponsor(s): Walsh Ranch MUD	Recommended WMS Project	3904	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Wellborn SUD	2030	Project Sponsor(s): Wellborn SUD	Recommended WMS Project	2861	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - West	2030	Project Sponsor(s): West	Recommended WMS Project	2862	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Whitney	2030	Project Sponsor(s): Whitney	Recommended WMS Project	2864	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Williamson County MUD 10	2030	Project Sponsor(s): Williamson County MUD 10	Recommended WMS Project	2865	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Williamson County MUD 11	2030	Project Sponsor(s): Williamson County MUD 11	Recommended WMS Project	2866	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Williamson County MUD 9	2030	Project Sponsor(s): Williamson County MUD 9	Recommended WMS Project	2867	NA	NA	NA	NA	NA	Unknown	NA

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G	Municipal Water Conservation - Windsor Water	2030	Project Sponsor(s): Windsor Water	Recommended WMS Project	3908	NA	NA	NA	NA	NA	Unknown	NA
G	Municipal Water Conservation - Woodway	2030	Project Sponsor(s): Woodway	Recommended WMS Project	2868	NA	NA	NA	NA	NA	Unknown	NA
G	NCTMWA Lake Creek Reservoir	2040	Project Sponsor(s): North Central Texas Municipal Water Authority	Recommended WMS Project	1896	Yes	Project/WMS not started	recommend moving WMS to 2040	Shift in timeline	NA	Unknown	new online decade is 2030
G	New Throckmorton Reservoir	2050	Project Sponsor(s): Throckmorton	Recommended WMS Project	1898	No	Project/WMS not started	recommend moving WMS to 2050	Shift in timeline	NA	NA	new online decade is 2030
G	Oak Creek Reservoir-Conjunctive Use	2030	WMS Seller: Sweetwater; WMS Supply Recipient: Manufacturing, Nolan	Recommended WMS Supply Without WMS Project	111586	Yes	Project/WMS started	NA	Economic feasibility/financing; Water supply constraints; Contract/permit constraints	NA	State	Partial Implementation
G	Oak Creek Reservoir-Conjunctive Use	2020	WMS Seller: Sweetwater; WMS Supply Recipient: Mining, Nolan	Recommended WMS Supply Without WMS Project	110019	Yes	Project/WMS started	NA	Economic feasibility/financing; Water supply constraints; Contract/permit constraints	NA	State	Partial Implementation
G	Oak Creek Reservoir-Conjunctive Use	2020	WMS Seller: Sweetwater; WMS Supply Recipient: Roscoe	Recommended WMS Supply Without WMS Project	110016	Yes	Project/WMS started	NA	Economic feasibility/financing; Water supply constraints; Contract/permit constraints	NA	State	Partial Implementation
G	Oak Creek Reservoir-Conjunctive Use	2020	WMS Seller: Sweetwater; WMS Supply Recipient: The Bitter Creek WSC	Recommended WMS Supply Without WMS Project	110012	Yes	Project/WMS started	NA	Economic feasibility/financing; Water supply constraints; Contract/permit constraints	NA	State	Partial Implementation
G	Oak Creek Reservoir-	2020	WMS Supply Recipient: Sweetwater	Recommended WMS Supply	28290	Yes	Project/WMS started	NA	Economic feasibility/financing; Water supply	NA	State	Partial Implementation

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	Conjunctive Use			Without WMS Project					constraints; Contract/permit constraints			
G	Other Aquifer Development - Stephens County Irrigation	2020	Project Sponsor(s): Irrigation (Stephens)	Recommended WMS Project	1818	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Additional Supply from Brandon-Irene WSC	2020	WMS Seller: Brandon Irene WSC; WMS Supply Recipient: County-Other, Hill	Recommended WMS Supply Without WMS Project	105348	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Additional Supply from the City of Mineral Wells	2020	WMS Seller: Mineral Wells; WMS Supply Recipient: County-Other, Palo Pinto	Recommended WMS Supply Without WMS Project	105443	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Additional Supply from the City of Mineral Wells	2070	WMS Seller: Mineral Wells; WMS Supply Recipient: Santo SUD	Recommended WMS Supply Without WMS Project	105456	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Additional Water from City of Graham	2020	WMS Seller: Graham; WMS Supply Recipient: Fort Belknap WSC	Recommended WMS Supply Without WMS Project	32711	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase from Bell County WCID 1	2030	WMS Seller: Bell County WCID 1; WMS Supply Recipient: 439 WSC	Recommended WMS Supply Without WMS Project	105047	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase from SAWS Vista Ridge Project	2030	WMS Seller: County-Other, Williamson; WMS Supply Recipient: County-Other, Williamson	Recommended WMS Supply Without WMS Project	107154	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Purchase from Walnut Creek Mine-Reuse	2050	WMS Supply Recipient: Steam-Electric Power, Robertson	Recommended WMS Supply Without WMS Project	39912	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Raw Water from Fort Hood	2050	WMS Supply Recipient: 439 WSC	Recommended WMS Supply Without WMS Project	104704	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Raw Water from Fort Hood	2060	WMS Supply Recipient: Copperas Cove	Recommended WMS Supply Without WMS Project	104710	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Raw Water from Fort Hood	2070	WMS Supply Recipient: Harker Heights	Recommended WMS Supply Without WMS Project	104707	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Supply from Jarrell-Schwertner WSC	2020	WMS Supply Recipient: Bartlett	Recommended WMS Supply Without WMS Project	105515	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Supply from Round Rock	2020	WMS Supply Recipient: Brushy Creek MUD	Recommended WMS Supply Without WMS Project	105537	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Supply from Round Rock	2020	WMS Supply Recipient: County-Other, Williamson	Recommended WMS Supply Without WMS Project	105540	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Surplus Water from City of Cross Plains	2020	WMS Supply Recipient: Mining, Callahan	Recommended WMS Supply Without WMS Project	105304	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Surplus Water from the City of Hamilton	2020	WMS Supply Recipient: Multi County WSC	Recommended WMS Supply Without WMS Project	105352	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Treated SW from Central Texas WSC	2070	WMS Supply Recipient: County-Other, Bell	Recommended WMS Supply Without WMS Project	35410	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Treated Water from Albany	2020	WMS Supply Recipient: Fort Griffin SUD	Recommended WMS Supply	105497	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
				Without WMS Project								
G	Purchase Treated Water from City of Lampasas	2020	WMS Supply Recipient: Manufacturing, Lampasas	Recommended WMS Supply Without WMS Project	105430	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Water from Abilene	2020	WMS Supply Recipient: County-Other, Jones	Recommended WMS Supply Without WMS Project	106155	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Water from Abilene	2020	WMS Supply Recipient: Irrigation, Jones	Recommended WMS Supply Without WMS Project	106152	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Water from Abilene	2020	WMS Supply Recipient: Mining, Jones	Recommended WMS Supply Without WMS Project	106149	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Water from City of Waco	2020	WMS Supply Recipient: Axtell WSC	Recommended WMS Supply Without WMS Project	105475	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Purchase Water from City of Waco	2020	WMS Supply Recipient: East Crawford WSC	Recommended WMS Supply Without WMS Project	105484	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Purchase Water from City of Waco	2020	WMS Supply Recipient: EOL WSC	Recommended WMS Supply Without WMS Project	105494	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Purchase Water from City of Waco	2050	WMS Supply Recipient: Hewitt	Recommended WMS Supply Without WMS Project	105487	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Water from City of Waco	2020	WMS Supply Recipient: Leroy Tours Gerald WSC	Recommended WMS Supply Without WMS Project	105503	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Purchase Water from Files Valley WSC	2060	WMS Supply Recipient: Chatt WSC	Recommended WMS Supply Without WMS Project	105419	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Purchase Water From Georgetown	2020	WMS Supply Recipient: Florence	Recommended WMS Supply Without WMS Project	105509	NA	NA	NA	NA	NA	Unknown	NA
G	Purchase Water Surplus from Eula WSC	2020	WMS Supply Recipient: Mining, Callahan	Recommended WMS Supply Without WMS Project	105286	NA	NA	NA	NA	NA	Unknown	NA
G	Reallocation of Supply from Moffat WSC	2050	WMS Supply Recipient: Elm Creek WSC	Recommended WMS Supply Without WMS Project	105667	NA	NA	NA	NA	NA	Unknown	NA
G	Reuse-Bellmead/Lacy-Lake	2020	Project Sponsor(s): Bellmead; Lacy Lakeview	Recommended WMS Project	1850	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Reuse- Bryan (Option 1)	2020	Project Sponsor(s): Bryan	Recommended WMS Project	1834	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Reuse-Bullhide Creek	2030	Project Sponsor(s): Hewitt; Lorena	Recommended WMS Project	1873	NA	NA	NA	NA	NA	Unknown	NA
G	Reuse-Cleburne	2020	Project Sponsor(s): Cleburne	Recommended WMS Project	1838	Yes	Project/WMS started	NA	NA	NA	Unknown	Project approaching completion
G	Reuse- Flat Creek	2020	Project Sponsor(s): Waco	Recommended WMS Project	1875	Yes	Project/WMS started	NA	Economic feasibility/financing	NA	Unknown	have requested additional $5M in grant funding, working with EPA
G	Reuse-WMARSS China Spring	2020	Project Sponsor(s): Waco	Recommended WMS Project	3796	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Reuse-WMARSS I-84	2020	Project Sponsor(s): Waco	Recommended WMS Project	3795	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Reuse-Cedar Park	2020	Project Sponsor(s): Cedar Park	Recommended WMS Project	4268	Yes	Project/WMS started	NA	NA	NA	Unknown	NA
G	Reuse-Georgetown	2030	Project Sponsor(s): Georgetown	Recommended WMS Project	4266	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Somervell County Water Supply Projects Phases 1-4, 7A, 9-17	2020	Project Sponsor(s): Municipal county-other (Somervell)	Recommended WMS Project	1970	NA	NA	NA	NA	NA	Unknown	NA
G	Sparta Aquifer Development - Burleson County Manufacturing	2020	Project Sponsor(s): Manufacturing (Burleson)	Recommended WMS Project	1750	NA	NA	NA	NA	NA	Unknown	NA
G	Subordination - CRMWD System	2020	WMS Seller: Colorado River MWD; WMS Supply Recipient: Rotan	Recommended WMS Supply Without WMS Project	20858	NA	NA	NA	NA	NA	Unknown	NA
G	Subordination - Oak Creek Reservoir	2030	WMS Seller: Sweetwater; WMS Supply Recipient: Mining, Nolan	Recommended WMS Supply Without WMS Project	111576	NA	NA	NA	NA	NA	Unknown	NA
G	Subordination - Oak Creek Reservoir	2020	WMS Supply Recipient: Sweetwater	Recommended WMS Supply Without WMS Project	110009	NA	NA	NA	NA	NA	Unknown	NA
G	Subordination - OH Ivie Non System Portion	2020	WMS Seller: Colorado River MWD; WMS Supply Recipient: Abilene	Recommended WMS Supply Without WMS Project	55713	NA	NA	NA	NA	NA	Unknown	NA
G	Texas A&M Sparta Aquifer Development	2040	Project Sponsor(s): Texas A and M University	Recommended WMS Project	4389	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development	2020	WMS Seller: Stephenville; WMS Supply Recipient: Manufacturing, Erath	Recommended WMS Supply Without WMS Project	105392	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development	2020	WMS Seller: Strawn; WMS Supply	Recommended WMS Supply	98953	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
			Recipient: Gordon	Without WMS Project								
G	Trinity Aquifer Development	2070	WMS Supply Recipient: Acton MUD	Recommended WMS Supply Without WMS Project	92959	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Palo Pinto County Irrigation	2020	Project Sponsor(s): Irrigation (Palo Pinto)	Recommended WMS Project	4119	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Acton MUD	2030	Project Sponsor(s): Acton MUD	Recommended WMS Project	3299	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Bell County WCID 2	2060	Project Sponsor(s): Bell County WCID 2	Recommended WMS Project	3298	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Comanche County Mining	2020	Project Sponsor(s): Mining (Comanche)	Recommended WMS Project	1754	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Coryell County Mining	2020	Project Sponsor(s): Mining (Coryell)	Recommended WMS Project	1757	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Coryell County-Other	2040	Project Sponsor(s): Municipal county-other (Coryell)	Recommended WMS Project	1756	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Hamilton County Mining	2020	Project Sponsor(s): Mining (Hamilton)	Recommended WMS Project	1728	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Hood County Mining	2020	Project Sponsor(s): Mining (Hood)	Recommended WMS Project	1787	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development - Hood County-Other	2020	Project Sponsor(s): Municipal county-other (Hood)	Recommended WMS Project	1785	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Trinity Aquifer Development - Somervell County Mining	2020	Project Sponsor(s): Mining (Somervell)	Recommended WMS Project	1816	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development-Comanche County-Other	2020	Project Sponsor(s): Municipal county-other (Comanche)	Recommended WMS Project	1753	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development-Eastland County Mining	2020	Project Sponsor(s): Mining (Eastland)	Recommended WMS Project	1758	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development-Erath County-Other	2060	Project Sponsor(s): Municipal county-other (Erath)	Recommended WMS Project	1760	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development-Godley	2030	Project Sponsor(s): Godley	Recommended WMS Project	4112	Yes	Project/WMS not started	NA	Other	Lack of drought conditions as driver	Unknown	NA
G	Trinity Aquifer Development-Highland Park WSC	2030	Project Sponsor(s): Highland Park WSC	Recommended WMS Project	2913	No	Project/WMS not started	NA	Shift in timeline	NA	NA	delaying strategy to online decade of 2030
G	Trinity Aquifer Development-Palo Pinto County Mining	2020	Project Sponsor(s): Mining (Palo Pinto)	Recommended WMS Project	4118	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development-Parker WSC	2060	Project Sponsor(s): Parker WSC	Recommended WMS Project	4114	NA	NA	NA	NA	NA	Unknown	NA
G	Trinity Aquifer Development-Stephenville	2020	Project Sponsor(s): Stephenville	Recommended WMS Project	4134	Yes	Project/WMS started	NA	NA	NA	NA	will be operational by summer 2024 with installation of pumps.
G	Trinity Aquifer Development-Strawn	2020	Project Sponsor(s): Strawn	Recommended WMS Project	4117	Yes	Project/WMS completed	NA	NA	NA	NA	NA
G	Trinity Aquifer Development-Bell County Mining	2020	Project Sponsor(s): Mining (Bell)	Recommended WMS Project	1741	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
G	Trinity Aquifer Development-Bosque County Irrigation	2020	Project Sponsor(s): Irrigation (Bosque)	Recommended WMS Project	1745	No	Project/WMS not started	NA	Shift in timeline	NA	Unknown	delaying strategy to online decade of 2030
G	TRWD - Unallocated Supply Utilization	2030	WMS Seller: Tarrant Regional WD; WMS Supply Recipient: Bethesda WSC	Recommended WMS Supply Without WMS Project	80209	NA	NA	NA	NA	NA	Unknown	NA
G	TRWD - Unallocated Supply Utilization	2030	WMS Seller: Tarrant Regional WD; WMS Supply Recipient: Burleson	Recommended WMS Supply Without WMS Project	80210	NA	NA	NA	NA	NA	Unknown	NA
G	TRWD - Unallocated Supply Utilization	2040	WMS Seller: Tarrant Regional WD; WMS Supply Recipient: Cleburne	Recommended WMS Supply Without WMS Project	99574	NA	NA	NA	NA	NA	Unknown	NA
G	TRWD - Unallocated Supply Utilization	2020	WMS Seller: Tarrant Regional WD; WMS Supply Recipient: County-Other, Johnson	Recommended WMS Supply Without WMS Project	80324	NA	NA	NA	NA	NA	Unknown	NA
G	TRWD - Unallocated Supply Utilization	2060	WMS Seller: Tarrant Regional WD; WMS Supply Recipient: Files Valley WSC	Recommended WMS Supply Without WMS Project	80372	NA	NA	NA	NA	NA	Unknown	NA
G	TRWD - Unallocated Supply Utilization	2020	WMS Seller: Tarrant Regional WD; WMS Supply Recipient: Johnson County SUD	Recommended WMS Supply Without WMS Project	80350	NA	NA	NA	NA	NA	Unknown	NA
G	TRWD - Unallocated	2030	WMS Seller: Tarrant Regional WD;	Recommended WMS Supply	80416	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
	Supply Utilization		WMS Supply Recipient: Venus	Without WMS Project								
G	Turkey Peak Reservoir	2030	Project Sponsor(s): Palo Pinto County MWD 1	Recommended WMS Project	1899	Yes	Project/WMS started	NA	NA	NA	Unknown	new online decade is 2030, construction starts in 2025
G	Upgrade WTP for Arsenic-Prairie Hill WSC	2020	Project Sponsor(s): Prairie Hill WSC	Recommended WMS Project	1882	Yes	Project/WMS started	NA	Contract/permit constraints	NA	Unknown	Awaiting TCEQ approval
G	Upgrade WTP for Arsenic-Falls County-Other	2020	Project Sponsor(s): Municipal county-other (Falls)	Recommended WMS Project	1877	NA	NA	NA	NA	NA	Unknown	NA
G	Upgrade WTP For Arsenic-McLennan County Other	2020	Project Sponsor(s): Municipal county-other (McLennan)	Recommended WMS Project	1866	NA	NA	NA	NA	NA	Unknown	NA
G	Upper Basin Chloride Control Project	2030	Project Sponsor(s): Salt Fork Water Quality Corporation	Recommended WMS Project	1982	NA	NA	NA	NA	NA	Unknown	NA
G	Upper Chloride Control Project Supply - Jayton	2030	Project Sponsor(s): Jayton	Recommended WMS Project	4401	NA	NA	NA	NA	NA	Unknown	NA
G	Upper Chloride Control Project Supply – Aspermont	2030	Project Sponsor(s): Aspermont	Recommended WMS Project	4402	NA	NA	NA	NA	NA	Unknown	NA
G	Voluntary Reallocation	2020	WMS Supply Recipient: Johnson County SUD	Recommended WMS Supply Without WMS Project	111564	NA	NA	NA	NA	NA	Unknown	NA
G	Voluntary Reallocation	2020	WMS Supply Recipient: Johnson County SUD	Recommended WMS Supply Without WMS Project	111569	NA	NA	NA	NA	NA	Unknown	NA
G	Voluntary Redistribution from Palo	2020	WMS Supply Recipient: Possum Kingdom WSC	Recommended WMS Supply Without WMS Project	105657	NA	NA	NA	NA	NA	Unknown	NA

Planning Region	WMS or WMS Project Name	Database Online Decade	Related Sponsor Entity and/or Benefitting WUGs	Implementation Survey Record Type	Database ID	Has the sponsor taken affirmative vote or actions? (TWC 16.053(h)(10))	What is the status of the WMS project or WMS recommended in the 2022 SWP?	If the project has not been started or no longer is being pursued, please explain why by adding information in this column.	Please select one or more project impediments. If an impediment is not listed, select "Other" and provide information in Column K.	If you selected "Other" in Column J, please provide information about project impediments not shown in the impediment list provided.	What funding type(s) are being used for the project? (Select all that apply)	Optional Comments
	Pinto Manufacturing											
G	Voluntary Redistribution from Palo Pinto Manufacturing	2020	WMS Supply Recipient: Sportsmans World MUD	Recommended WMS Supply Without WMS Project	105661	NA	NA	NA	NA	NA	Unknown	NA
G	Williamson County Groundwater	2030	Project Sponsor(s): Brazos River Authority	Recommended WMS Project	4284	NA	NA	NA	NA	NA	Unknown	NA
G	Woodbine Aquifer Development-Hill County Irrigation	2020	Project Sponsor(s): Irrigation (Hill)	Recommended WMS Project	1784	NA	NA	NA	NA	NA	Unknown	NA

APPENDIX N

HYDROLOGIC VARIANCE REQUEST

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Appendix N: Hydrologic Variance Request

N-1. Brazos G Memorandum – Hydrologic Variance Request for the Determination of Water Availability and Water Supplies for the 2026 Brazos G Regional Water Plan (Region G).

N-2. TWDB Letter – Re: Brazos G Regional Water Planning Group (RWPG) request for approval of alternative water supply assumptions to be used in determining existing and future surface water availability for development of the 2026 Brazos G Regional Water Plan.

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October 27, 2023

This document is released for the purpose of information exchange review and planning only under the authority of Tony L. Smith, P.E., October 27, 2023, TX PE#92620.

Mr. Lann Bookout
Region G Project Manager
Texas Water Development Board
P.O. Box 12321
Austin Texas 78711

Subject: Hydrologic Variance Request for the Determination of Water Availability and Water Supplies for the 2026 Brazos G Regional Water Plan (Region G)

Dear Mr. Bookout:

The Brazos G Regional Water Planning Group (Brazos G RWPG) met on October 20, 2023, to discuss the process for determining the amount of surface water available from existing surface water sources and future water management strategies using the guidance provided by the Texas Water Development Board (TWDB) in the scope of work for the present cycle of Regional Water Planning. During this meeting, the Brazos G RWPG discussed the approach for determining water availability within the region, noting where specific variances from the standard TWDB guidance will be employed towards development of the 2026 Brazos G Regional Water Plan.

The Brazos G RWPG approved submittal of this letter and the accompanying attachments, requesting that the TWDB allow the Brazos G RWPG to use the approaches detailed herein throughout the regional planning process for analyses that determine surface water availability to existing rights and for analyses to determine the potential supplies available from new water management strategies and water management strategy projects.

Surface Water Supplies

The Brazos G planning area is located primarily within the Brazos River Basin. Small areas of the region are in the Colorado, Red, and Trinity River Basins. Surface waters in each of these river basins serve as a source of water to Brazos G. In its guidelines for Regional Water Planning, the TWDB requires that water availability be based on results derived from the official Texas Commission on Environmental Quality (TCEQ) Water Availability Models (WAMs), unless a hydrologic variance request is submitted.

The TCEQ WAMs, which have been developed for all river basins in Texas, simulate the management, operation, and use of streamflow and reservoirs over a historical period of record, adhering to the prior appropriation doctrine that governs Texas' water right priority system. The TCEQ WAMs are the fundamental tools used to determine surface water availability for water rights permitting and contain information about water rights in each respective river basin.

There are several versions of each of these WAMs. TWDB guidance stipulates that regional water planning groups use the Full Authorization version that TCEQ employs to analyze applications for perpetual water rights. This scenario is often referred to as WAM "Run 3." The assumptions in the TCEQ WAM Run 3 are conservatively modeled for permitting purposes, allowing for consideration of water supply availability under drought-of-record conditions to ensure water demands can be met under critical circumstances.

For the purposes of the development of the 2026 Brazos G Water Plan, the "Run 3" WAMs for the Brazos River Basin will be updated to determine surface water availabilities in the region. To reflect the current and future conditions of the region, the following hydrologic variances are summarized below. The hydrologic variance request form provided by the TWDB has been completed for the Brazos River Basin, and is included in Attachment A.

Firm Yield

"Firm Yield" is defined in the Texas Administrative Code 31 TAC §357.10 (14) as the:

> "Maximum amount of water that is physically and legally accessible from existing sources for immediate use by a Water User Group under a repeat of Drought of Record conditions."

In accordance with regional water planning rules and guidance, firm yields for existing reservoirs and water management strategies contemplating a reservoir within Region G will be reported within the 2026 Brazos G Plan based on the modeled results from the applicable WAM for the basin in which the reservoir is located.

Drought Worse than the Drought of Record

Per TWDB guidance, regional water plans must address water supply needs during a repeat of the drought of record. The generated values of supplies, demands, and population all have associated ranges of uncertainty. Although the limited regional planning resources may not support evaluating a range of or multiple scenarios and although assessments of the likelihood of droughts potentially worse than the drought of record (DWDOR) are not required, RWPGs may choose to consider scenarios and/or qualitatively address uncertainty and DWDOR in their region. Such assessments can be used to more explicitly recognize or acknowledge the relative uncertainties in the planning process and the potential risks without necessarily modifying the plan to mitigate those risks.

If evaluations performed by water providers within Brazos G include considerations of potential impacts of a DWDOR, these evaluations will be documented within Chapter 8 of the 2026 Brazos G Plan and considered for informing upon legislative and regional policy recommendations of the Brazos G RWPG within that chapter.

General Hydrologic Assumptions

The Brazos G RWPG will assess surface water availability in a manner that accurately reflects water supplies that are available for use. The Brazos G RWPG requests that the TWDB approve the following assumptions for use in representing existing supplies and potential future surface water supplies in the 2026 Brazos G Water Plan. The WAMs containing the necessary modifications to the TCEQ WAM that incorporate these assumptions will be referred to as the "Region G WAMs." A general summary of the models and assumptions to be employed for the evaluation of existing water supply and water management strategies (WMS's) is provided below.

Assumption	Use for Existing Supplies	Use for Water Management Strategies
General		
Use most recent available versions of the TCEQ WAMs.	X	X
WAM Run 3 - full consumption of existing water rights with no (zero) return flows) used as basis for specific identified modifications.	X	X
Incorporation of return flows (most recent available 5-year minimums) for permitted discharges greater than 0.9 MGD.	X	
Modeling of reuse to include consideration of minimum and permitted return flows associated with WUG in a manner consistent with TCEQ evaluations of reuse applications.		X
Channel losses based on factors employed within official TCEQ WAMs.	X	X
ASR evaluations will consider surface water availability as determined by the WAM compared to demand, with the firm supply being the maximum demand that could be met assuming a repetition of the period of record drought.		X
Adopted environmental flow standards will be used as incorporated into the applicable official TCEQ WAMs	X	X
Subordination of water rights will be modeled in a manner consistent with method of modeling of subordination within the official TCEQ WAMs.	X	X

Assumption	Use for Existing Supplies	Use for Water Management Strategies
The Brazos River Authority's (BRA) System Operations permit will be modeled and analyzed in a manner consistent with the terms of the water right.	X	X
For municipal and industrial users: Run of the river rights will be determined in accordance with TWDB guidelines which state that the use-appropriate monthly percentage of the annual firm diversion must be satisfied in each and every month of the simulation period for all surface water diversions. Reservoirs will use firm yield unless a change is specifically requested by a reservoir owner and approved by the RWPG and TWDB, as appropriate per TWDB guidelines. The calculated source availabilities will be compared against existing legal and infrastructure constraints (water treatment plants, pipelines, intakes, etc.) and will be constrained if the existing infrastructure or legal capability is not sufficient to facilitate full utilization of the source. The most constrained amount will be used as the firm supply.	X	X
For irrigation users, water supply will be determined using firm reliability (100%). In the absence of any supply information or justification of reliable supplies available in a drought of record, supply values will be set equal to zero.	X	X
For livestock, in the absence of any supply information or justification of reliable supplies available in a drought of record, supply values will be set to zero.	X	X
Water supply contracts will be assumed to automatically renew, unless specifically identified as otherwise by a WWP or WUG.		X

Brazos River Basin WAM

For the Brazos River Basin, the most recently available official TCEQ WAM Run 3 (ver. October 1, 2023) will be employed for all availability analyses in the basin using the modeled hydrologic period of 1940-2018.

The current WAM Run 3 accumulates the BRA's contracts within various reaches throughout the river basin. Those cumulative contractual diversions will be disaggregated to the individual contract holders representing the specific WUGs and WWPs. Allocation of individual contract supplies will be based on the supply available in the reach in which the contract diversion is located.

The WAM Run 3 will be modified to include available data on current and future wastewater treatment plant effluent (return flows) discharged by entities located throughout the basin that are permitted to discharge in excess of 0.9 million gallons per day (MGD) in order to evaluate existing supplies. For a conservative estimation, the magnitude of return flows added to the model will reflect the minimum wastewater discharged from the most recent 5 years of available historical discharge data. Brazos G requests this modification to improve the estimates of water available to existing water rights; improved estimates of streamflow throughout the Brazos River Basin; and to provide an estimate of wastewater flows potentially available for direct reuse throughout the Brazos River Basin. Use of return flows in the WAM will be limited to determination of existing supplies and only return flows specific to a reuse water management strategy will be added to the WAM when evaluating future strategies.

Additionally, there are agreements within the Brazos River Basin where one party agrees not to exercise a priority call on the other party's upstream junior water right during low flow periods. This increases water available to the junior water right and decreases water available to the downstream senior water right where there is insufficient flow for both water rights. While the TCEQ WAM contains several such subordination agreements, it contains only those subordination agreements which are included as a part of the legal water right. There are other subordination agreements which are not included in the language of the water right permits and therefore are not included in the WAM. The Brazos G WAM will be modified to include the following currently identified agreements:

- Possum Kingdom Reservoir water rights are subordinate to Lake Alan Henry;
- Possum Kingdom Reservoir water rights are subordinate to the City of Stamford's California Creek pump-back operation into Lake Stamford;
- Lake Waco is subordinated to the City of Clifton's 1996 priority date water right;
- Possum Kingdom Reservoir water rights are subordinated to rights held by the West Central Texas Municipal Water District in Hubbard Creek Reservoir; and
- Possum Kingdom Reservoir water rights are subordinated to rights held by the City of Abilene to divert flows from the Clear Fork of the Brazos River into Lake Fort Phantom Hill.

Other subordination agreements will also be incorporated when identified during the planning process.

For modeling of the BRA's water sources, the BRA's Little River reservoirs' (i.e., Belton, Georgetown, Granger, Proctor, and Stillhouse) modeled source availabilities will be aggregated and reported as the "Brazos River

Authority Little River System." Additionally, the BRA's main stem reservoirs' (i.e., Granbury, Limestone, Possum Kingdom, Somerville, and Whitney) modeled source availabilities will be aggregated and reported as the "Brazos River Authority Main Stem System." Lastly, Aquilla Lake will be modeled and reported as the "Brazos River Authority Aquilla System."

Modeling of the BRA System Operations permit will be reported as the "BRA System Operations Permit Supply." Source availabilities will be modeled and analyzed in a manner consistent with the terms of the water right for both existing supplies and potential water management strategies.

The BRA's reservoir operating rules in WAM Run 3 are implemented in the model such that BRA's system of reservoirs operates optimally during the drought of the 1950's. However, these operating rules do not allow the system to operate optimally during more recent drought conditions. The BRA has developed more recent operational rules allowing the reservoir system to operate optimally through both the 1950's and more recent drought conditions. WAM Run 3 will be modified to incorporate these more recent rules from BRA into the model to more accurately reflect expected conditions and operations for existing supplies and potential future water management strategies.

Within the upper portion of the Brazos River Basin, reservoir owners tend to use safe yield instead of firm yield for the determination of source availability. To reflect the planning of those reservoir owners, the Brazos G RWPG requests to evaluate the available source supply from reservoirs using a firm yield or safe yield determination, depending upon the location of the reservoir and the preference of the reservoir owner. Safe yield approaches used by reservoir owners will be utilized to best reflect the operation of the reservoirs when determining reservoir supply, and are identified below.

1. Upstream of Possum Kingdom Reservoir (in the upper Brazos River Basin):
    a. 2-year Safe Yield:
        i. Fort Phantom Hill;
        ii. Hubbard Creek.
    b. 1-year Safe Yield:
        i. Abilene;
        ii. Cisco;
        iii. Daniel;
        iv. Graham-Eddleman;
        v. Kirby;
        vi. Stamford;
        vii. Sweetwater;
        viii. Sweetwater_Trammel_RC4128;
        ix. Lytle Lake;

x. City of Hamlin Lake;
xi. Anson North;
xii. Woodson;
xiii. Baird;
xiv. McCarty;
xv. Moran;
xvi. Bryson; and
xvii. Millers Creek Reservoir.

2. Palo Pinto County Municipal Water District No. 1 operates Lake Palo Pinto on a percent storage reserve basis, which is approximately equivalent to a 0.5-year safe yield.

For reservoirs in which a safe yield is utilized as the basis for supply, Brazos G will also determine and report the firm yield, as required by TWDB guidance.

Brazos G will utilize a modified WAM to evaluate water management strategies similar to the WAM used for determination of existing available supplies. The Modified WAM for strategy evaluation will include all of the requested variances except for:

- The addition of return flows, unless evaluating a reuse strategy.
- Loss of reservoir storage due to sedimentation.

If existing or future supplies utilize ASR, the supply evaluation will consider surface water availability as determined by the WAM compared to demand for the WUG/WWP, with the firm supply being the maximum demand that could be met assuming a repetition of the period of record drought.

These changes are requested to the WAM Run 3 for the Brazos G RWPG's modeling of the Brazos River Basin for existing sources, supplies, and future water management strategies, and other corrections noted during review of the model. As noted previously, these requested variances are also presented in the required, completed hydrologic variance form provided in Attachment A.

Other WAMs

For the purposes of the 2026 Brazos G Water Plan, for the Colorado River Basin the Brazos G RWPG requests use of the Colorado WAM model as modified by the Region F and Region K RWPGs as approved by the TWDB for all availability analyses in the basin. For the Red River Basin, the Brazos G RWPG requests use of the Red River Basin WAM model as modified by the Region B RWPG and approved by the TWDB for all availability analyses in the basin. For the Trinity River Basin, the Brazos G RWPG requests use of the Trinity WAM model as modified by the Region C RWPG and approved by the TWDB for all availability analyses in the basin. For the San Antonio and Guadalupe River Basins, the Brazos G RWPG requests use of the Guadalupe-San Antonio WAM model as modified by the Region L RWPG and approved by the TWDB for all availability analyses in those basins. All source availabilities will be coordinated with the applicable RWPGs to ensure consistency with TWDB guidelines.

Sedimentation

For reservoirs with available volumetric survey information, annual sediment rate will be calculated, and loadings calculated for Year 2030 and Year 2080. Sediment distribution will be calculated through evaluation of the best-fit (based on Root Mean Squared Error) of the trapezoidal, conical, or Empirical Area Reduction Method (EARM). The 2030 and 2080 area-capacity curves will then be developed and employed within WAM. Intervening decadal yields will be linearly interpolated, unless reservoir owners requests or provides specific decadal projections consistent with the approved WAM methodology, which will be documented per TWDB guidance.

The most recent volumetric survey information will be utilized. For reservoirs lacking volumetric surveys, original area-capacity relations within TCEQ WAM Run 3 will be assumed constant.

This sedimentation process would be employed for both existing and water management strategy reservoir firm/safe yields.

If you have any questions regarding this request, please contact me at your convenience. We appreciate the TWDB's consideration of this request.

Sincerely,
CAROLLO ENGINEERS, INC.

Tony L. Smith, P.E.
Project Manager

tls

Enclosures: Attachments A - Checklist

cc: Mr. Wayne Wilson, Chair, Brazos G RWPG
Ms. Pam Hanneman, Administrator, Brazos G RWPG

Surface Water Hydrologic Variance Request Checklist

Texas Water Development Board (TWDB) rules[1] require that regional water planning groups (RWPG) use most current Water Availability Models (WAM) from the Texas Commission on Environmental Quality (TCEQ) and assume full utilization of existing water rights and no return flows for surface water supply analysis. Additionally, evaluation of existing stored surface water available during Drought of Record conditions must be based on Firm Yield using anticipated sedimentation rates. However, the TWDB rules also allow, and **we encourage**, RWPGs to use more representative, water availability modeling assumptions; better site-specific information; or justified operational procedures other than Firm Yield with written approval (via a Hydrologic Variance) from the Executive Administrator in order to better represent and therefore prepare for expected drought conditions.

RWPGs must use this checklist, which is intended to save time and reduce effort, to request a Hydrologic Variance for estimating the availability of surface water sources. For Questions 4 – 10, please indicate whether the requested variance is for determining Existing Supply, Strategy Supply, or both. Please complete a separate checklist for each river basin in which variances are being requested.

Water Planning Region: G

1. Which major river basin does the request apply to? Please specify if the request only applies part of the basin or only to certain reservoirs.

   Brazos River Basin

2. Please give a brief, bulleted, description of the requested hydrologic variances including how the alternative availability assumptions vary from rule requirements, how the modifications will affect the associated annual availability volume(s) in the regional water plan, and why the variance is necessary or provides a better basis for planning. You must provide more-detailed descriptions in the subsequent checklist questions. Attach any available documentation supporting the request.

   - Requested variance to separate individual BRA contractual diversions from cumulative contractual diversions. The current WAM Run 3 accumulates the BRA's contracts within various reaches throughout the river basin. This modification will allocate individual contract supplies based on the modeled supply available in the reach in which the contract diversion is located. It does not affect the associated annual availability volume, only how the modeled volume is allocated to individual contract holders. This variance provides a more accurate depiction of the allocation of legally available water to each WUG/WWP, and thus provides a better basis for planning.
   - Requested variance for the addition of return flows. This is a variance from the rule requirements as WAM Run 3 contains no return flows and would thus increase associated annual availability volumes. This requested variance is to utilize wastewater treatment plant effluent (return flows) discharged by entities located throughout the

[1] 31 Texas Administrative Code (TAC) §§ 357.10(14) and 357.32(c)

basin that are permitted to discharge in excess of 0.9 million gallons per day (MGD) in order to evaluate existing and future supplies. For a conservative estimation, the magnitude of return flows added to the model is proposed to reflect the minimum wastewater discharged from the most recent five (5) years of available historical discharge data. This variance is requested to conservatively improve the estimates of water available to existing water rights; improve estimates of streamflow throughout the Brazos Basin; and to provide a conservative estimate of wastewater flows potentially available for reuse throughout the Brazos Basin.

- Requested variance to add existing contractual subordination agreements. WAM Run 3 contains only those subordination agreements which are included as part of a water right/permit. There exist contractual subordination agreements (not presently included in WAM Run 3) within the Brazos River Basin where one party agrees not to exercise a priority call on the other party's upstream junior water right during low flow periods. This increases water available to the junior water right and decreases water available to the downstream senior water right where there is insufficient flow for both water rights. This variance results in more accuracy of the legal availability of existing supply to WUGs and WWPs in the Brazos G region, and thus provides an improved basis for planning.
- Requested variance to model and report availabilities for the Brazos River Authority (BRA) by system. For modeling of these BRA water sources, the BRA's Little River reservoirs' (i.e., Belton, Georgetown, Granger, Proctor, and Stillhouse) modeled source availabilities will be aggregated and reported as the "Brazos River Authority Little River Lake/Reservoir System." The BRA's main stem reservoirs' (i.e., Granbury, Limestone, Possum Kingdom, Somerville, and Whitney) modeled source availabilities will be aggregated and reported as the "Brazos River Authority Main Stem Lake/Reservoir System." Lastly, Aquilla Lake will be modeled and reported as the "Brazos River Authority Aquilla Lake/Reservoir System." This variance does not increase the associated annual availability volumes, but allows for more accurate allocation of supplies to WUGs and WWPs, and thus provides an improved basis for planning.
- Requested variance to accurately reflect implementation of the BRA's System Operations permit. Modeling of the BRA System Operations permit will be reported as the "BRA System Operations Permit Supply." Annual source availability volumes will be modeled and analyzed in a manner consistent with the terms of the water right for both existing supplies and potential water management strategies. This variance allows for modeling the complexity of the BRA System Operations Permit in a manner that more accurately represents availability from this source to WWPs and WUGs, and thus provides a better basis for planning.
- Requested variance to update reservoir operating rules to address more recent drought conditions. Updating WAM Run 3 inputs to be consistent with updated BRA operations addressing both the 1950's and more recent drought conditions will allow for a more accurate depiction of source availabilities under drought conditions, whereby annual source availability volumes may be more limited where more extreme drought conditions have affected reservoir firm yields and diversion capabilities. This increased accuracy provides an improved basis for planning during drought conditions.
- Requested variance for use of safe yields for specific reservoirs. The use of safe yield is proposed for the purposes of the 2026 Brazos G Regional Water Plan for the

determination of source availabilities for specific reservoirs where owners have adopted defined safe yield amounts for their operations. The safe yield amount is lower than the firm yield, thus affecting annual availability. The use of these defined safe yields for the characterization of source availability for specific reservoirs provides greater consistency with the owners' use of the source, and thus provides a more accurate depiction of availability for WUGs and WWPs, serving as a better basis for planning.

- Other corrections to the WAM that may be identified during review of the model.
- Utilize a modified WAM for strategy evaluations similar to the WAM used for determination of existing available supplies. The Modified WAM for strategy evaluation will include all of the requested variances *except*:
    - The addition of return flows, unless evaluating a reuse strategy.
    - Loss of reservoir storage due to sedimentation.

  The evaluation of a strategy will exclude these variances to ensure the more conservative estimation of water availability is determined in a manner consistent with TWDB guidelines, and thus serves as a better basis for planning strategies for WUGs and WWPs.

- ASR evaluations will consider surface water availability as determined by the WAM compared to demand for the WUG/WWP, with the firm supply being the maximum demand that could be met assuming a repetition of the period of record drought.

3. Was this request submitted in a previous planning cycle? If yes, please indicate which cycle and note how it is different, if at all, from the previous request?

   Yes

   - For the purposes of the 2021 Plan, the representation of individual BRA contractual diversions were added to the model as WR records to track individual supply availabilities for each contract in the reach of the applicable diversion. The present request differs from the request from the previous planning cycle, whereby for the purposes of the 2026 Plan the modeling in the WAM remains as a diversion from a reach as represented in WAM Run 3. Existing contract information will be used to allocate the available supply modeled from the diversion for each reach.
   - Addition of return flows were used during the development of the 2006, 2011, 2016, and 2021 Plans following approval by the TWDB. Return flow amounts will be modified to reflect more recent discharge information.
   - Inclusion of existing contractual subordination agreements were utilized in the development of the 2006, 2011, 2016, and 2021 Plans. The request is no different from the previous request.
   - The reporting of BRA systems was not explicitly identified and submitted as a variance request in the previous planning cycle. However, this request is consistent with the methodology and reporting used for the purposes of the 2021 Plan, and is submitted this cycle for completeness.
   - Modeling and reporting of the BRA System Operations Permit was not explicitly identified and submitted as a variance request in the previous planning cycle. However,

this request is consistent with the methodology and reporting used for the purposes of the 2021 Plan, and is submitted this cycle for completeness.

- An update of reservoir operating rules (along with inclusion of an updated, more recent hydrologic period) to more accurately reflect operations under recent drought conditions was requested and approved for the purposes of the 2021 regional water plan. With a more recently updated WAM Run 3 including an extended hydrologic period of record is now available, the portion of the request to extend the hydrologic period is no longer necessary; however, updating the reservoir operation rules is consistent with the request and approved methodology used for the purposes of the 2021 Plan.
- The use of safe yield analyses for reservoirs upstream of Possum Kingdom Reservoir and for Lake Palo Pinto were utilized in the development of the 2011, 2016, and 2021 Plans. The request is no different from the previous request.
- Corrections to the model for errors that may be identified was not submitted in the previous planning cycle.
- Utilization of the same model as a basis for strategy evaluations as is used for determination of existing available supplies was utilized in the development of the 2021 plan. This request clarifies the considerations of return flows for reuse strategies and sedimentation effects to ensure the more conservative estimation of water availability, consistent with TWDB guidelines.
- The inclusion of ASR evaluations was not explicitly identified and submitted as a variance request in the previous planning cycle.

4. Are you requesting to extend the period of record beyond the current applicable WAM hydrologic period? If yes, please describe the proposed methodology. Indicate whether you believe there is a new drought of record in the basin.

   No

   Choose an item.

   Click or tap here to enter text.

5. Are you requesting to use a reservoir safe yield? If yes, please describe in detail how the safe yield would be calculated and defined, which reservoir(s) it would apply to, and why the modification is needed or preferrable for drought planning purposes.

   Yes

   Existing and Strategy Supply

   Reservoir owners upstream of Possum Kingdom Reservoir (in the upper Brazos Basin) utilize 1-year and 2-year safe yields, which are used as the preferred basis for determining supply. Additionally, the Palo Pinto County Municipal Water District No. 1 operates Lake Palo Pinto on a

percent storage reserve basis, which is approximately equivalent to a 0.5-year safe yield. These safe yield assumptions are used to best reflect the operation of the reservoirs.
Safe Yield Reservoirs are:

0.5-year Safe Yield: Palo Pinto.
2-year Safe Yield: Fort Phantom Hill, Hubbard Creek.
1-year Safe Yield: Abilene, Cisco, Daniel, Graham-Eddleman, Kirby, Stamford, Sweetwater, Sweetwater_Trammel_RC4128, Lytle Lake, City of Hamlin Lake, Anson North, Woodson, Baird, McCarty, Moran, Bryson, and Millers Creek Reservoir.

6. Are you requesting to use a reservoir yield other than firm yield or safe yield? If yes, please describe, in a bulleted list, each modification requested including how the alternative yield was calculated, which reservoir(s) it applies to, and why the modification is needed or preferrable for drought planning purposes. Examples of alternative reservoir yield analyses may include using an alternative reservoir level, conditional reliability, or other special reservoir operations.

   No

   Choose an item.

   Click or tap here to enter text.

7. Are you requesting to use a different model (such as a RiverWare or Excel-based models) than RUN 3 of the applicable TCEQ WAM? If yes, please describe the model being considered including how it incorporates water rights and prior appropriation and how it is more conservative than RUN 3 of the applicable TCEQ WAM.

   No

   Choose an item.

   Click or tap here to enter text.

8. Are you requesting to use a modified TCEQ WAM? If yes, please describe in a bulleted list all modifications in detail including all specific changes to the WAM and whether the modified WAM is more conservative than the TCEQ WAM RUN 3. Examples of WAM modifications may include adding subordination agreements, contracts, updated water rights, modified spring flows, updated lake evaporation, updated sedimentation[2], system or reservoir operations, or special operational procedures into the WAM.

   Yes

   Existing and Strategy Supply

[2] Updating anticipated sedimentation rates does not require a hydrologic variance under 31 TAC § 357.10(14). The Technical Memorandum will require providing details regarding the sedimentation methodology utilized. Please consider providing that information with this request.

- Requested variance to separate individual BRA contractual diversions from cumulative contractual diversions. The current WAM Run 3 accumulates the BRA's contracts within various reaches throughout the river basin. Those cumulative contractual diversions will be calculated in the WAM, then disaggregated to the individual contract holders representing specific WUGs and WWPs utilizing contract information and supply availabilities. Allocation of individual contract supplies will be based on the modeled supply available in the reach in which the contract diversion is located. This variance provides a more accurate depiction of the allocation of legally available water to each WUG/WWP, and thus provides a better basis for planning.
- Addition of return flows for permitted wastewater treatment plant effluent in excess of 0.9 MGD, the magnitudes of which will be based on the minimum discharge from the most recent five (5) years of available historical discharge data. Return flows will be modeled in the WAM through the use of CI records which adds flow to the model at the beginning of the priority loop, making these amounts available to all water rights. This is consistent with TCEQ modeling of return flows when evaluating permits dependent upon return flows. Use of return flows in the WAM will be limited to the determination of existing supplies and only return flows specific to a reuse water management strategy will be added to the WAM when evaluating future strategies.
- Additionally, there are agreements within the Brazos River Basin where one party agrees not to exercise a priority call on the other party's upstream junior water right during low flow periods. This increases water available to the junior water right and decreases water available to the downstream senior water right where there is insufficient flow for both water rights. While the TCEQ WAM contains several such subordination agreements, it contains only those subordination agreements which are included as a part of the legal water right. There are other subordination agreements which are not included in the language of the water right permits and therefore are not included in the WAM. The Brazos G WAM will be modified to include the following currently identified agreements:

    - Possum Kingdom Reservoir water rights are subordinate to Lake Alan Henry;
    - Possum Kingdom Reservoir water rights are subordinate to the City of Stamford's California Creek pump-back operation into Lake Stamford;
    - Lake Waco is subordinated to the City of Clifton's 1996 priority date water right;
    - Possum Kingdom Reservoir water rights are subordinated to rights held by the West Central Texas Municipal Water District in Hubbard Creek Reservoir; and
    - Possum Kingdom Reservoir water rights are subordinated to rights held by the City of Abilene to divert flows from the Clear Fork of the Brazos River into Lake Fort Phantom Hill.

    Other subordination agreements will also be incorporated when identified during the planning process.

    The addition of subordination agreements not described in water right permits will be modeled in the WAM by modifying the diversion made senior to the subject reservoirs with a PX 1 record and with a PX 2 with an option enabled to disregard the

subordinated reservoir and downstream reservoirs when determining available streamflow for depletion.

- Annual source availability volumes of BRA's System Operations permit will be modeled and analyzed in a manner consistent with the terms of the water right for both existing supplies and potential water management strategies. Modifications to the WAM will entail modification of records of type PX, OR, TO, WR, and WS to distribute diversions in a manner consistent with the permit while reflecting supply operations as operated by BRA.
- Update reservoir operating rules to work correctly under recent drought conditions. The revised operating rules involve releases from additional reservoirs within BRA's system. Modifications to the WAM will utilize additional WR, WS, and OR records to model the updated operation rules.
- Reservoir firm yields will be modeled using the FY card. Reservoir safe yield will be modeled as a diversion wherein the minimum annual storage volume is equal to the diversion target times the number of years the safe yield represents.
- Update the WAM storage area curve data for major reservoirs to represent sedimentation effects for the planning decades. Sediment distribution will be calculated through evaluation of the best-fit (based on Root Mean Squared Error) of the trapezoidal, conical, or Empirical Area Reduction Method (EARM). The 2030 and 2080 area-capacity curves will then be developed and employed within WAM. The most recent volumetric survey information will be utilized. For reservoirs lacking volumetric surveys, original area-capacity relations within TCEQ WAM Run 3 will be assumed constant. Intervening decadal yields will be linearly interpolated, unless reservoir owners request specific decadal projections utilizing the approved WAM. This sedimentation process would be employed for both existing and water management strategy reservoir firm/safe yields.
- Other corrections of errors if noted during application of the models.
- Evaluate ASR strategy supplies by modeling the firm yield of the surface water supply used for ASR. The maximum demand that could be met by the ASR strategy, assuming a repetition of the period of record drought, would be the firm yield identified in the WAM.

9. Are you requesting to include return flows in the modeling? If yes, are you doing so to model an indirect reuse water management strategy (WMS)? Please provide complete details regarding the proposed methodology for determining reuse WMS availability.

   Yes

   Existing and Strategy Supply

   For the determination of existing supplies, for wastewater treatment plant discharges permitted for more than 0.9 MGD, the magnitudes of the return flows added to the WAM are to be the minimum discharge from the most recent five (5) years of available historical discharge data.

For evaluation of indirect reuse WMSs, a conservatively low estimate of return flows available to the strategy will be utilized. It will be assumed that 25% of existing discharges would be directly reused and not continued to be discharged, and 50% of increases in wastewater plant discharges would be directly reused.

10. Are any of the requested Hydrologic Variances also planned to be used by another region for the same basin? If yes, please indicate the other Region. Please indicate if unknown.

    Yes

    Coordination between Region G and other regional water planning groups has, and will continue to be performed, to ensure consistency in the representations of existing supplies and strategies between regions in a manner ascribing to the TWDB's guidelines and statutory requirements.

11. Please describe any other variance requests not captured on this checklist or add any other information regarding the variance requests on this checklist.

    No additional variance requests.

Texas Water Development Board

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

January 10, 2024

Mr. Wayne Wilson
Region G Chair
c/o Wilson Cattle Company
7026 East OSR
Bryan, TX 77808

Dear Chairman Wilson:

The Texas Water Development Board has reviewed your request dated October 27, 2023, for approval of alternative water supply assumptions to be used in determining existing and future surface water availability. This letter confirms that the TWDB approves the following assumptions:

1. Modify the Brazos WAM Run 3 to separate individual Brazos River Authority (BRA) contractual diversions from cumulative contractual diversions.
2. Modify the Brazos WAM Run 3 to add return flows for evaluation of existing and reuse strategy supplies.
3. Modify the Brazos WAM Run 3 to add existing contractual subordination agreements for evaluation of existing and strategy supplies.
4. Modify the Brazos WAM Run 3 to report availabilities for the BRA by reservoir system for evaluation of existing and strategy supplies.
5. Modify the Brazos WAM Run 3 to accurately reflect implementation of the BRA's System Operations permit for evaluation of existing and strategy supplies.
6. Modify the Brazos WAM Run 3 to update reservoir operating rules that more accurately reflect recent drought conditions for evaluation of existing and strategy supplies.
7. Utilize the following safe yields for reservoirs in the Brazos Basin:
    a. 2-year Safe Yield for Fort Phantom Hill and Hubbard Creek reservoirs.
    b. 1-year Safe Yield for Abilene, Cisco, Daniel, Graham-Eddleman, Kirby, Stamford, Sweetwater, Trammel, Lytle, Hamlin, Anson North, Woodson, Baird, McCarty, Moran, Bryson, and Millers Creek Reservoirs.
    c. 0.5-year safe yield for Lake Palo Pinto.
8. Account for other error corrections in the Brazos WAM Run 3 that may be identified during application of the WAM, provided that the TWDB is notified of the errors identified and the methods adopted to correct the errors.
9. Evaluate existing or future supplies utilizing ASR evaluations with surface water availability as determined by the WAM compared to demand for the WUG/WWP,

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Jeff Walker, Executive Administrator

with the firm supply being the maximum demand that could be met assuming a repetition of the period of record drought.

10. For the Colorado River Basin, use the Colorado WAM as modified by the Region F RWPG and the Region K RWPG and approved by the TWDB for all availability analyses in the basin.
11. For the Red River Basin, use the Red River WAM as modified by the Region B RWPG and approved by the TWDB for all availability analyses in the basin.
12. For the Trinity River Basin, use the Trinity WAM as modified by the Region C RWPG and approved by the TWDB for existing supply analyses in the basin. If Region C submits a variance for future strategy supplies and that is approved by the TWDB, the TWDB will inform Region G they are approved to apply that variance for future supplies. Otherwise, Region G will need to use TCEQ's WAM RUN3.
13. For the Guadalupe-San Antonio River Basin, use the Guadalupe-San Antonio WAM as modified by the Region L RWPG and approved by the TWDB for all availability analyses in the basin.

Although the TWDB approves the use of safe yields for developing estimates of current water supplies, firm yield for each reservoir must still be reported to TWDB in the online planning database and plan documents.

While the use of these modified conditions may be reasonable for planning purposes, WAM RUN3 would be utilized by the Texas Commission on Environmental Quality for analyzing permit applications. It is acceptable to use the modified conditions for WMS supply evaluations only if the yield produced is more conservative (less) for surface water appropriations than WAM RUN3.

While the TWDB authorizes these modification to evaluate existing and future water supplies for development of the 2026 Region G 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 most recent version of regional water planning contract Exhibit C, *General Guidelines for Development of the 2026 Regional Water Plans.*

Please do not hesitate to contact John Maurer of our Regional Water Planning staff at (512) 475-1613 or john.maurer@twdb.texas.gov if you have any questions.

Sincerely,

Matt Nelson
Deputy Executive Administrator

c: Pam Hannemann, Brazos River Authority
Tony Smith, Carollo Engineers (Region G Consultant)
John Maurer, Water Supply Planning
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APPENDIX O

MAJOR WATER PROVIDER TABLES

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Appendix O: Major Water Provider Tables

Table O.1. Major Water Providers Demands by Category of Use.

Table O.2. Major Water Providers Supplies by Category of Use.

Table O.3. Major Water Providers Needs.

Table O.4. Major Water Providers Secondary Needs.

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Table O.1. Major Water Providers Demands by Category of Use

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
439 WSC	Municipal	1,517	1,769	2,007	2,207	2,355	2,435
439 WSC Total		**1,517**	**1,769**	**2,007**	**2,207**	**2,355**	**2,435**
Abilene	Manufacturing	671	671	671	671	671	671
	Municipal	43,050	45,062	46,835	48,613	50,593	52,813
Abilene Total		**43,721**	**45,733**	**47,506**	**49,284**	**51,264**	**53,484**
Acton MUD	Municipal	3,116	3,325	3,583	3,861	4,723	5,580
Acton MUD Total		**3,116**	**3,325**	**3,583**	**3,861**	**4,723**	**5,580**
Alvarado	Municipal	673	770	871	961	1,063	1,177
Alvarado Total		**673**	**770**	**871**	**961**	**1,063**	**1,177**
Anson	Municipal	1,100	1,076	1,058	1,031	1,005	977
Anson Total		**1,100**	**1,076**	**1,058**	**1,031**	**1,005**	**977**
Aquilla WSD	Municipal	5,952	5,952	5,952	5,952	5,952	5,952
Aquilla WSD Total		**5,952**	**5,952**	**5,952**	**5,952**	**5,952**	**5,952**
Arlington	Irrigation	281	281	281	281	281	281
	Manufacturing	2,024	2,099	2,176	2,257	2,340	2,427
	Mining	105	105	105	105	105	105
	Municipal	76,679	83,339	89,014	93,626	99,855	103,155
Arlington Total		**79,089**	**85,824**	**91,576**	**96,269**	**102,581**	**105,968**
Bell County WCID 1	Municipal	44,232	47,409	50,909	54,486	57,603	57,740
Bell County WCID 1 Total		**44,232**	**47,409**	**50,909**	**54,486**	**57,603**	**57,740**
Bell County WCID 3	Municipal	1,659	2,033	2,620	3,207	3,344	3,481
Bell County WCID 3 Total		**1,659**	**2,033**	**2,620**	**3,207**	**3,344**	**3,481**
Bellmead	Municipal	1,441	1,482	1,525	1,556	1,593	1,636
Bellmead Total		**1,441**	**1,482**	**1,525**	**1,556**	**1,593**	**1,636**
Belton	Municipal	4,887	5,899	6,916	7,846	8,613	9,146
Belton Total		**4,887**	**5,899**	**6,916**	**7,846**	**8,613**	**9,146**
Bethesda WSC	Municipal	7,344	8,463	9,609	10,646	11,811	13,119
Bethesda WSC Total		**7,344**	**8,463**	**9,609**	**10,646**	**11,811**	**13,119**
Bistone Municipal Water Supply District	Municipal	3,089	3,061	2,946	2,826	2,707	2,591
Bistone Municipal Water Supply District Total		**3,089**	**3,061**	**2,946**	**2,826**	**2,707**	**2,591**
Bluebonnet WSC	Municipal	7,125	7,125	7,125	7,125	7,125	7,125
Bluebonnet WSC Total		**7,125**	**7,125**	**7,125**	**7,125**	**7,125**	**7,125**

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Brandon Irene WSC	Municipal	584	603	617	632	648	666
Brandon Irene WSC Total		**584**	**603**	**617**	**632**	**648**	**666**
Brazos River Authority	Irrigation	14,180	14,180	14,180	14,180	14,180	14,180
	Manufacturing	20,768	20,768	20,768	20,768	20,768	20,768
	Mining	3,000	3,000	3,000	3,000	3,000	3,000
	Municipal	276,529	276,774	277,067	277,427	277,806	277,695
	Steam Electric Power	125,725	125,725	125,725	125,725	125,725	125,725
	Wholesale Water Provider	293,095	293,095	293,095	293,095	293,095	293,095
Brazos River Authority Total		**733,297**	**733,542**	**733,835**	**734,195**	**734,574**	**734,463**
Brenham	Manufacturing	208	208	208	208	208	208
	Municipal	4,284	4,332	4,315	4,319	4,324	4,328
Brenham Total		**4,492**	**4,540**	**4,523**	**4,527**	**4,532**	**4,536**
Bruceville Eddy	Municipal	1,775	1,890	2,018	2,154	2,299	2,454
Bruceville Eddy Total		**1,775**	**1,890**	**2,018**	**2,154**	**2,299**	**2,454**
Brushy Creek MUD	Municipal	4,504	4,490	4,490	4,490	4,490	4,490
Brushy Creek MUD Total		**4,504**	**4,490**	**4,490**	**4,490**	**4,490**	**4,490**
Bryan	Manufacturing	95	95	95	95	95	95
	Municipal	23,336	26,635	30,664	35,491	43,600	53,907
	Steam Electric Power	1	1	1	1	1	1
Bryan Total		**23,432**	**26,731**	**30,760**	**35,587**	**43,696**	**54,003**
Burleson	Manufacturing	2	2	2	2	2	2
	Municipal	8,163	9,476	10,793	11,974	13,298	14,781
Burleson Total		**8,165**	**9,478**	**10,795**	**11,976**	**13,300**	**14,783**
Cameron	Municipal	1,428	1,405	1,363	1,324	1,284	1,242
Cameron Total		**1,428**	**1,405**	**1,363**	**1,324**	**1,284**	**1,242**
Cedar Park	Manufacturing	347	347	347	347	347	347
	Municipal	23,551	23,779	23,897	23,897	23,897	23,897
Cedar Park Total		**23,898**	**24,126**	**24,244**	**24,244**	**24,244**	**24,244**
Central Texas WSC	Municipal	10,537	10,537	10,537	10,537	10,537	10,537
Central Texas WSC Total		**10,537**	**10,537**	**10,537**	**10,537**	**10,537**	**10,537**
Cisco	Municipal	877	889	909	916	925	938
Cisco Total		**877**	**889**	**909**	**916**	**925**	**938**
Cleburne	Manufacturing	2,714	3,105	3,455	3,801	4,182	4,182
	Municipal	7,557	8,493	9,453	10,310	11,273	12,355
	Steam Electric Power	1,344	1,344	1,344	1,344	1,344	1,344
Cleburne Total		**11,615**	**12,942**	**14,252**	**15,455**	**16,799**	**17,881**

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Clifton	Manufacturing	1	1	1	1	1	1
	Municipal	884	939	995	1,045	1,099	1,160
Clifton Total		**885**	**940**	**996**	**1,046**	**1,100**	**1,161**
College Station	Manufacturing	6	6	6	6	6	6
	Municipal	23,940	27,047	31,819	37,404	36,735	36,155
College Station Total		**23,946**	**27,053**	**31,825**	**37,410**	**36,741**	**36,161**
Colorado River MWD	Irrigation	400	400	400	400	400	400
	Municipal	76,266	61,707	66,823	69,030	71,239	73,465
Colorado River MWD Total		**76,666**	**62,107**	**67,223**	**69,430**	**71,639**	**73,865**
Copperas Cove	Municipal	6,519	8,586	9,886	10,749	11,026	10,666
Copperas Cove Total		**6,519**	**8,586**	**9,886**	**10,749**	**11,026**	**10,666**
Corix Utilities Texas Inc	Municipal	3,753	3,917	4,060	4,162	4,279	4,403
Corix Utilities Texas Inc Total		**3,753**	**3,917**	**4,060**	**4,162**	**4,279**	**4,403**
Coryell City Water Supply District	Municipal	1,121	1,147	1,166	1,165	1,166	1,167
Coryell City Water Supply District Total		**1,121**	**1,147**	**1,166**	**1,165**	**1,166**	**1,167**
County-Other, Erath	Manufacturing	1	1	1	1	2	2
	Municipal	2,475	2,671	2,915	3,203	3,526	3,890
County-Other, Erath Total		**2,476**	**2,672**	**2,916**	**3,204**	**3,528**	**3,892**
County-Other, Grimes	Municipal	1,434	1,499	1,548	1,569	1,577	1,563
County-Other, Grimes Total		**1,434**	**1,499**	**1,548**	**1,569**	**1,577**	**1,563**
County-Other, Hood	Municipal	4,127	4,623	5,138	5,692	6,320	7,031
County-Other, Hood Total		**4,127**	**4,623**	**5,138**	**5,692**	**6,320**	**7,031**
County-Other, McLennan	Manufacturing	3	3	3	3	3	3
	Municipal	859	1,078	1,128	1,151	1,198	1,300
	Steam Electric Power	1	1	1	1	1	1
County-Other, McLennan Total		**863**	**1,082**	**1,132**	**1,155**	**1,202**	**1,304**
County-Other, Milam	Municipal	853	5,575	9,120	14,437	14,437	14,437
County-Other, Milam Total		**853**	**5,575**	**9,120**	**14,437**	**14,437**	**14,437**
County-Other, Williamson	Municipal	8,194	15,601	19,536	24,261	29,973	37,165
County-Other, Williamson Total		**8,194**	**15,601**	**19,536**	**24,261**	**29,973**	**37,165**
Cross Country WSC	Municipal	643	722	790	868	956	1,053
Cross Country WSC Total		**643**	**722**	**790**	**868**	**956**	**1,053**
Dog Ridge WSC	Municipal	942	1,057	1,147	1,209	1,279	1,356
Dog Ridge WSC Total		**942**	**1,057**	**1,147**	**1,209**	**1,279**	**1,356**
Double Diamond Utilities	Municipal	3,240	3,498	3,732	3,960	4,212	4,499
Double Diamond Utilities Total		**3,240**	**3,498**	**3,732**	**3,960**	**4,212**	**4,499**

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Dublin	Manufacturing	5	7	8	9	10	12
	Municipal	395	360	331	297	268	243
Dublin Total		**400**	**367**	**339**	**306**	**278**	**255**
Eastland County WSD	Manufacturing	56	56	56	56	56	56
	Municipal	5,339	5,339	5,339	5,339	5,339	5,339
Eastland County WSD Total		**5,395**	**5,395**	**5,395**	**5,395**	**5,395**	**5,395**
Fern Bluff MUD	Municipal	1,177	1,221	1,270	1,271	1,272	1,272
Fern Bluff MUD Total		**1,177**	**1,221**	**1,270**	**1,271**	**1,272**	**1,272**
FHLM WSC	-	-	-	-	-	-	-
FHLM WSC Total		**-**	**-**	**-**	**-**	**-**	**-**
Files Valley WSC	Municipal	1,292	1,345	1,395	1,447	1,504	1,567
Files Valley WSC Total		**1,292**	**1,345**	**1,395**	**1,447**	**1,504**	**1,567**
Fort Hood	Municipal	8,528	8,839	9,179	9,520	9,860	10,200
Fort Hood Total		**8,528**	**8,839**	**9,179**	**9,520**	**9,860**	**10,200**
Fort Worth	Irrigation	2,000	2,000	2,000	2,000	2,000	2,000
	Manufacturing	9,823	10,197	10,584	10,985	11,402	11,833
	Municipal	325,284	373,922	393,100	423,476	457,848	489,936
Fort Worth Total		**337,107**	**386,119**	**405,684**	**436,461**	**471,250**	**503,769**
Gatesville	Manufacturing	4	4	4	4	4	4
	Municipal	5,977	6,185	6,400	6,562	6,733	6,782
Gatesville Total		**5,981**	**6,189**	**6,404**	**6,566**	**6,737**	**6,786**
Georgetown	Manufacturing	163	163	163	163	163	163
	Municipal	51,885	88,057	119,860	147,393	179,301	206,665
Georgetown Total		**52,048**	**88,220**	**120,023**	**147,556**	**179,464**	**206,828**
Gholson WSC	Municipal	627	701	765	838	920	1,012
Gholson WSC Total		**627**	**701**	**765**	**838**	**920**	**1,012**
Giddings	Manufacturing	13	14	15	16	17	18
	Municipal	1,129	1,141	1,124	1,103	1,080	1,053
Giddings Total		**1,142**	**1,155**	**1,139**	**1,119**	**1,097**	**1,071**
Gordon	Municipal	216	216	214	214	213	211
Gordon Total		**216**	**216**	**214**	**214**	**213**	**211**
Graham	Manufacturing	2	2	2	2	2	2
	Municipal	3,568	3,552	3,453	3,439	3,426	3,409
	Steam Electric Power	248	248	248	248	248	248
Graham Total		**3,818**	**3,802**	**3,703**	**3,689**	**3,676**	**3,659**
Granbury	Municipal	3,178	3,601	4,041	4,522	5,062	5,670

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Granbury Total		**3,178**	**3,601**	**4,041**	**4,522**	**5,062**	**5,670**
Harker Heights	Municipal	7,173	8,252	9,348	9,693	9,693	9,693
Harker Heights Total		**7,173**	**8,252**	**9,348**	**9,693**	**9,693**	**9,693**
Hewitt	Municipal	3,289	3,278	3,278	3,278	3,278	3,278
Hewitt Total		**3,289**	**3,278**	**3,278**	**3,278**	**3,278**	**3,278**
Hilco United Services	Municipal	1,341	1,395	1,444	1,495	1,551	1,613
Hilco United Services Total		**1,341**	**1,395**	**1,444**	**1,495**	**1,551**	**1,613**
Hillsboro	Manufacturing	7	9	10	11	12	12
	Municipal	3,465	3,558	3,623	3,693	3,770	3,858
Hillsboro Total		**3,472**	**3,567**	**3,633**	**3,704**	**3,782**	**3,870**
Huntsville	Municipal	12,730	13,642	15,243	17,196	19,316	21,624
	Steam Electric Power	6,720	6,720	6,720	6,720	6,720	6,720
Huntsville Total		**19,450**	**20,362**	**21,963**	**23,916**	**26,036**	**28,344**
Hutto	Municipal	2,703	3,731	5,180	7,191	9,983	13,860
Hutto Total		**2,703**	**3,731**	**5,180**	**7,191**	**9,983**	**13,860**
Jarrell-Schwertner	Municipal	9,744	10,468	10,913	11,369	11,848	12,350
Jarrell-Schwertner Total		**9,744**	**10,468**	**10,913**	**11,369**	**11,848**	**12,350**
Johnson County SUD	Mining	20	20	20	20	20	20
	Municipal	16,421	18,552	19,884	20,939	22,035	23,567
Johnson County SUD Total		**16,441**	**18,572**	**19,904**	**20,959**	**22,055**	**23,587**
Jonah Water SUD	Municipal	6,238	8,863	11,977	15,377	19,205	23,510
Jonah Water SUD Total		**6,238**	**8,863**	**11,977**	**15,377**	**19,205**	**23,510**
Keene	Municipal	870	912	953	986	1,022	1,064
Keene Total		**870**	**912**	**953**	**986**	**1,022**	**1,064**
Kempner WSC	Mining	25	25	25	25	25	25
	Municipal	5,052	5,176	5,219	5,204	5,186	5,148
Kempner WSC Total		**5,077**	**5,201**	**5,244**	**5,229**	**5,211**	**5,173**
Killeen	Manufacturing	7	7	7	7	7	7
	Municipal	23,409	26,702	29,783	33,208	36,579	39,951
Killeen Total		**23,416**	**26,709**	**29,790**	**33,215**	**36,586**	**39,958**
Lacy Lakeview	Municipal	1,022	1,095	1,162	1,231	1,309	1,397
Lacy Lakeview Total		**1,022**	**1,095**	**1,162**	**1,231**	**1,309**	**1,397**
Lampasas	Manufacturing	137	151	165	178	195	213
	Municipal	1,562	1,720	1,881	2,019	2,076	2,045
Lampasas Total		**1,699**	**1,871**	**2,046**	**2,197**	**2,271**	**2,258**
Leander	Municipal	23,455	29,716	31,236	31,252	31,252	31,252

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Leander Total		**23,455**	**29,716**	**31,236**	**31,252**	**31,252**	**31,252**
Liberty Hill	Municipal	763	1,105	1,513	1,957	2,458	3,021
Liberty Hill Total		**763**	**1,105**	**1,513**	**1,957**	**2,458**	**3,021**
Lower Colorado River Authority	Irrigation	145,611	145,611	145,611	145,611	145,611	145,611
	Manufacturing	41,145	41,145	41,145	41,145	41,145	41,145
	Mining	2,214	275	275	275	275	275
	Municipal	297,329	297,329	297,329	297,329	297,329	297,329
	Steam Electric Power	70,764	70,764	70,764	70,764	70,764	70,764
	Wholesale Water Provider	25,000	25,000	25,000	25,000	25,000	25,000
Lower Colorado River Authority Total		**582,063**	**580,124**	**580,124**	**580,124**	**580,124**	**580,124**
Mansfield	Manufacturing	222	230	239	248	257	266
	Municipal	45,396	50,203	58,360	73,934	75,140	76,020
Mansfield Total		**45,618**	**50,433**	**58,599**	**74,182**	**75,397**	**76,286**
Manville WSC	Municipal	9,016	9,966	10,810	11,649	12,599	13,676
Manville WSC Total		**9,016**	**9,966**	**10,810**	**11,649**	**12,599**	**13,676**
Marlin	Municipal	1,343	1,266	1,204	1,151	1,126	1,141
Marlin Total		**1,343**	**1,266**	**1,204**	**1,151**	**1,126**	**1,141**
McGregor	Manufacturing	4	4	4	4	4	4
	Municipal	2,737	2,881	3,014	3,141	3,285	3,440
McGregor Total		**2,741**	**2,885**	**3,018**	**3,145**	**3,289**	**3,444**
Mexia	Manufacturing	43	44	44	44	45	45
	Municipal	1,952	1,923	1,886	1,852	1,816	1,778
Mexia Total		**1,995**	**1,967**	**1,930**	**1,896**	**1,861**	**1,823**
Mineral Wells	Manufacturing	35	35	35	35	35	35
	Municipal	6,018	6,209	6,410	6,614	6,614	6,614
Mineral Wells Total		**6,053**	**6,244**	**6,445**	**6,649**	**6,649**	**6,649**
Morgans Point Resort	Municipal	774	843	916	989	1,061	1,134
Morgans Point Resort Total		**774**	**843**	**916**	**989**	**1,061**	**1,134**
Mountain Peak SUD	Municipal	8,004	10,533	13,351	16,321	19,660	23,429
Mountain Peak SUD Total		**8,004**	**10,533**	**13,351**	**16,321**	**19,660**	**23,429**
Navasota	Manufacturing	114	114	114	114	138	183
	Municipal	1,581	1,641	1,695	1,737	1,784	1,835
Navasota Total		**1,695**	**1,755**	**1,809**	**1,851**	**1,922**	**2,018**
North Bosque WSC	Municipal	638	714	801	898	1,006	1,129
North Bosque WSC Total		**638**	**714**	**801**	**898**	**1,006**	**1,129**

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
North Central Texas Municipal Water Authority	Municipal	1,797	1,797	1,769	1,739	1,710	1,678
North Central Texas Municipal Water Authority Total		**1,797**	**1,797**	**1,769**	**1,739**	**1,710**	**1,678**
Palo Pinto County MWD 1	Municipal	5,551	5,651	5,706	5,777	5,848	5,906
	Steam Electric Power	4,000	4,000	4,000	4,000	4,000	4,000
Palo Pinto County MWD 1 Total		**9,551**	**9,651**	**9,706**	**9,777**	**9,848**	**9,906**
Potosi WSC	Municipal	1,164	1,319	1,456	1,616	1,792	1,989
Potosi WSC Total		**1,164**	**1,319**	**1,456**	**1,616**	**1,792**	**1,989**
Robinson	Municipal	3,530	3,940	4,417	4,961	5,583	6,293
Robinson Total		**3,530**	**3,940**	**4,417**	**4,961**	**5,583**	**6,293**
Rockdale	Municipal	1,609	1,616	1,627	1,639	1,650	1,662
Rockdale Total		**1,609**	**1,616**	**1,627**	**1,639**	**1,650**	**1,662**
Round Rock	Manufacturing	642	674	674	674	674	674
	Mining	6	6	6	6	6	6
	Municipal	27,624	33,109	38,639	40,049	41,380	42,320
Round Rock Total		**28,272**	**33,789**	**39,319**	**40,729**	**42,060**	**43,000**
Salado WSC	Municipal	2,514	2,808	3,141	3,514	3,933	4,404
Salado WSC Total		**2,514**	**2,808**	**3,141**	**3,514**	**3,933**	**4,404**
Salt Fork Water Quality Corporation (SFWQC)	-	-	-	-	-	-	-
Salt Fork Water Quality Corporation (SFWQC) Total		**-**	**-**	**-**	**-**	**-**	**-**
Somervell County Water District	Municipal	1,487	1,534	1,554	1,542	1,529	1,515
Somervell County Water District Total		**1,487**	**1,534**	**1,554**	**1,542**	**1,529**	**1,515**
Sonterra MUD	Municipal	2,294	3,607	5,166	6,867	8,783	10,940
Sonterra MUD Total		**2,294**	**3,607**	**5,166**	**6,867**	**8,783**	**10,940**
Southwest Milam WSC	Municipal	1,989	2,072	2,160	2,260	2,375	2,508
Southwest Milam WSC Total		**1,989**	**2,072**	**2,160**	**2,260**	**2,375**	**2,508**
Stamford	Municipal	977	920	859	794	719	629
Stamford Total		**977**	**920**	**859**	**794**	**719**	**629**
Steamboat Mountain WSC	Municipal	1,039	1,279	1,489	1,744	2,026	2,337
Steamboat Mountain WSC Total		**1,039**	**1,279**	**1,489**	**1,744**	**2,026**	**2,337**
Stephenville	Manufacturing	29	35	42	48	55	64
	Municipal	3,936	4,305	4,765	5,387	6,075	6,838
Stephenville Total		**3,965**	**4,340**	**4,807**	**5,435**	**6,130**	**6,902**

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Sweetwater	Manufacturing	358	356	354	354	354	354
	Municipal	3,069	3,047	3,023	2,994	2,964	2,933
Sweetwater Total		**3,427**	**3,403**	**3,377**	**3,348**	**3,318**	**3,287**
Tarrant Regional WD	Irrigation	1,292	1,292	1,292	1,292	1,292	1,292
	Mining	890	880	1,456	2,052	2,999	4,469
	Municipal	504,186	574,932	616,727	677,766	730,405	781,210
	Steam Electric Power	11,505	24,035	24,035	24,035	24,035	24,035
	Wholesale Water Provider	46,388	47,580	48,944	50,559	52,074	53,223
Tarrant Regional WD Total		**564,261**	**648,719**	**692,454**	**755,704**	**810,805**	**864,229**
Taylor	Manufacturing	5	5	5	5	5	5
	Municipal	3,987	5,530	7,289	8,922	10,757	12,804
Taylor Total		**3,992**	**5,535**	**7,294**	**8,927**	**10,762**	**12,809**
Temple	Manufacturing	481	481	481	481	481	481
	Municipal	32,034	35,379	38,003	39,794	41,803	44,055
Temple Total		**32,515**	**35,860**	**38,484**	**40,275**	**42,284**	**44,536**
Texas A&M University	Municipal	10,415	10,400	10,400	10,400	10,400	10,400
Texas A&M University Total		**10,415**	**10,400**	**10,400**	**10,400**	**10,400**	**10,400**
Texas State Technical College	Municipal	2,016	2,015	2,015	2,015	2,015	2,015
Texas State Technical College Total		**2,016**	**2,015**	**2,015**	**2,015**	**2,015**	**2,015**
Upper Leon MWD	Municipal	4,572	4,572	4,572	4,572	4,572	4,572
Upper Leon MWD Total		**4,572**	**4,572**	**4,572**	**4,572**	**4,572**	**4,572**
Venus	Municipal	442	412	386	358	332	308
Venus Total		**442**	**412**	**386**	**358**	**332**	**308**
Waco	Manufacturing	2,888	3,249	3,618	3,948	4,403	4,403
	Municipal	45,648	49,386	52,772	56,391	60,426	64,588
	Steam Electric Power	15,000	15,000	15,000	15,000	15,000	15,000
Waco Total		**63,536**	**67,635**	**71,390**	**75,339**	**79,829**	**83,991**
Wellborn SUD	Municipal	6,117	6,888	8,068	9,531	11,174	13,020
Wellborn SUD Total		**6,117**	**6,888**	**8,068**	**9,531**	**11,174**	**13,020**
West Central Texas MWD	Municipal	15,620	13,260	10,900	8,540	6,200	6,200
West Central Texas MWD Total		**15,620**	**13,260**	**10,900**	**8,540**	**6,200**	**6,200**
Wickson Creek SUD	Manufacturing	8	8	8	8	9	10
	Municipal	3,523	3,951	4,570	5,316	6,155	7,097
Wickson Creek SUD Total		**3,531**	**3,959**	**4,578**	**5,324**	**6,164**	**7,107**
Williamson County MUD 11	Municipal	922	1,321	1,791	2,305	2,884	3,534
Williamson County MUD 11 Total		**922**	**1,321**	**1,791**	**2,305**	**2,884**	**3,534**

Major Water Provider/Use Category		MWP Demands by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Williamson County WSID 3	Municipal	1,002	1,273	1,603	1,968	2,380	2,847
Williamson County WSID 3 Total		**1,002**	**1,273**	**1,603**	**1,968**	**2,380**	**2,847**
Woodway	Manufacturing	2	2	2	2	2	2
	Municipal	3,973	3,967	3,967	3,967	3,967	3,967
Woodway Total		**3,975**	**3,969**	**3,969**	**3,969**	**3,969**	**3,969**

Table O.2. Major Water Providers Supplies by Category of Use

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
439 WSC		**1,624**	**1,624**	**1,624**	**1,624**	**1,624**	**1,624**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,624	1,624	1,624	1,624	1,624	1,624
Abilene		**26,848**	**28,860**	**30,633**	**29,485**	**26,912**	**25,890**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	11,681	11,681	11,681	11,681	11,681	11,681
Fort Phantom Hill Lake/Reservoir	Municipal	2,300	2,200	2,100	2,000	1,900	1,010
Hubbard Creek Lake/Reservoir	Municipal	5,027	7,139	6,000	3,640	1,300	1,300
Indirect Reuse	Municipal	7,840	7,840	7,840	7,840	7,840	7,840
OH Ivie Lake/Reservoir Non-System Portion	Municipal	0	0	3,012	4,324	4,191	4,059
Acton MUD		**4,372**	**4,329**	**4,285**	**3,677**	**3,096**	**3,096**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	2,847	2,804	2,760	2,152	1,571	1,571
Trinity Aquifer	Municipal	1,525	1,525	1,525	1,525	1,525	1,525
Alvarado		**2,241**	**2,241**	**2,241**	**2,241**	**2,241**	**2,241**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	2,241	2,241	2,241	2,241	2,241	2,241
Trinity Aquifer	Municipal	0	0	0	0	0	0
Anson		**373**	**376**	**386**	**394**	**402**	**402**
Hubbard Creek Lake/Reservoir	Municipal	373	376	386	394	402	402
Aquilla WSD		**5,952**	**5,952**	**5,952**	**5,952**	**5,690**	**5,690**
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	5,952	5,952	5,952	5,952	5,690	5,690
Arlington		**61,004**	**58,937**	**58,467**	**55,966**	**55,385**	**53,370**
TRWD Lake/Reservoir System	Municipal	61,004	58,937	58,467	55,966	55,385	53,370
Bell County WCID 1		**44,134**	**47,311**	**50,811**	**51,831**	**52,460**	**52,597**
Brazos River Authority Little River Lake/Reservoir System	Municipal	41,894	45,071	48,571	49,591	50,220	50,357
Direct Reuse	Municipal	2,240	2,240	2,240	2,240	2,240	2,240
Bell County WCID 3		**1,659**	**2,033**	**2,620**	**3,207**	**3,344**	**3,481**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,659	2,033	2,620	3,207	3,344	3,481
Bellmead		**3,046**	**3,344**	**3,043**	**3,344**	**3,040**	**3,344**
Trinity Aquifer	Municipal	1,702	2,000	1,699	2,000	1,696	2,000
Waco Lake/Reservoir	Municipal	1,344	1,344	1,344	1,344	1,344	1,344

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Belton		**7,399**	**7,399**	**7,399**	**7,399**	**5,752**	**5,752**
Brazos River Authority Little River Lake/Reservoir System	Municipal	7,399	7,399	7,399	7,399	5,752	5,752
Bethesda WSC		**4,943**	**6,187**	**6,367**	**6,621**	**6,716**	**6,716**
Trinity Aquifer	Municipal	2,184	2,183	2,184	2,183	2,183	2,183
TRWD Lake/Reservoir System	Municipal	2,759	4,004	4,183	4,438	4,533	4,533
Bistone Municipal Water Supply District		**151**	**84**	**18**	**4**	**5**	**5**
Carrizo-Wilcox Aquifer	Municipal	3	3	4	4	5	5
Mexia Lake/Reservoir	Municipal	148	81	14	0	0	0
Bluebonnet WSC		**6,897**	**6,854**	**6,808**	**6,763**	**6,717**	**6,671**
Brazos River Authority Little River Lake/Reservoir System	Municipal	6,897	6,854	6,808	6,763	6,717	6,671
Brandon Irene WSC		**480**	**479**	**474**	**471**	**455**	**455**
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	256	255	254	253	239	239
Trinity Aquifer	Municipal	224	224	220	218	216	216
Brazos River Authority		**688,655**	**687,625**	**686,642**	**679,641**	**665,487**	**650,985**
BRA System Operations Permit Supply	Irrigation	90	90	90	86	75	67
BRA System Operations Permit Supply	Manufacturing	9,568	9,568	9,568	9,133	8,141	7,181
BRA System Operations Permit Supply	Municipal	16,783	16,783	16,783	16,019	14,280	12,597
BRA System Operations Permit Supply	Steam Electric Power	43,117	47,237	51,357	52,953	52,191	51,171
BRA System Operations Permit Supply	Wholesale Water Provider	51,835	51,835	51,835	49,477	44,108	38,907
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	5,450	5,450	5,450	5,450	5,448	5,210
Brazos River Authority Aquilla Lake/Reservoir System	Wholesale Water Provider	5,953	5,953	5,953	5,953	5,690	5,690
Brazos River Authority Little River Lake/Reservoir System	Irrigation	5,797	5,758	5,721	5,682	5,644	5,607
Brazos River Authority Little River Lake/Reservoir System	Municipal	117,682	117,180	116,724	116,337	115,969	115,107
Brazos River Authority Little River Lake/Reservoir System	Wholesale Water Provider	74,216	73,727	73,237	72,747	72,257	71,884
Brazos River Authority Main Stem Lake/Reservoir System	Irrigation	7,115	7,115	7,115	7,115	7,115	7,115
Brazos River Authority Main Stem Lake/Reservoir System	Manufacturing	11,200	11,200	11,200	11,200	11,200	11,200

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Brazos River Authority Main Stem Lake/Reservoir System	Mining	3,000	3,000	3,000	3,000	3,000	3,000
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	86,098	86,098	86,098	86,098	86,098	86,098
Brazos River Authority Main Stem Lake/Reservoir System	Steam Electric Power	82,608	78,488	74,368	70,248	66,128	62,008
Brazos River Authority Main Stem Lake/Reservoir System	Wholesale Water Provider	146,015	146,015	146,015	146,015	146,015	146,015
Highland Lakes Lake/Reservoir System	Municipal	22,128	22,128	22,128	22,128	22,128	22,128
Brenham		**3,701**	**3,701**	**3,701**	**3,701**	**3,701**	**3,701**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	3,701	3,701	3,701	3,701	3,701	3,701
Bruceville Eddy		**1,456**	**1,451**	**1,445**	**1,439**	**1,433**	**1,433**
Brazos River Authority Little River Lake/Reservoir System	Municipal	902	896	890	884	878	878
Trinity Aquifer	Municipal	554	555	555	555	555	555
Brushy Creek MUD		**3,194**	**3,169**	**3,127**	**3,095**	**3,073**	**3,073**
Brazos River Authority Little River Lake/Reservoir System	Municipal	2,785	2,763	2,741	2,719	2,697	2,697
Edwards-BFZ Aquifer	Municipal	409	406	386	376	376	376
Bryan		**12,483**	**14,036**	**14,151**	**14,273**	**14,361**	**14,361**
Carrizo-Wilcox Aquifer	Municipal	12,483	14,036	14,151	14,273	14,361	14,361
Burleson		**8,163**	**9,476**	**10,793**	**11,974**	**13,298**	**14,781**
TRWD Lake/Reservoir System	Municipal	8,163	9,476	10,793	11,974	13,298	14,781
Cameron		**2,615**	**2,615**	**2,615**	**2,615**	**2,615**	**2,615**
Brazos Run-of-River	Municipal	2,615	2,615	2,615	2,615	2,615	2,615
Cedar Park		**15,553**	**15,553**	**15,553**	**15,553**	**15,553**	**15,553**
Highland Lakes Lake/Reservoir System	Municipal	15,553	15,553	15,553	15,553	15,553	15,553
Central Texas WSC		**10,368**	**10,363**	**10,357**	**10,352**	**10,346**	**10,341**
Brazos River Authority Little River Lake/Reservoir System	Municipal	9,329	9,229	9,223	9,218	9,212	9,207
Trinity Aquifer	Municipal	1,039	1,134	1,134	1,134	1,134	1,134
Cisco		**928**	**928**	**928**	**928**	**928**	**928**
Cisco Lake/Reservoir	Municipal	928	928	928	928	928	928
Cleburne		**7,609**	**7,146**	**6,724**	**6,305**	**5,620**	**5,620**

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	2,586	2,195	1,845	1,498	885	885
Pat Cleburne Lake/Reservoir	Municipal	4,968	4,896	4,824	4,752	4,680	4,680
Trinity Aquifer	Municipal	55	55	55	55	55	55
Clifton		**868**	**825**	**792**	**760**	**727**	**727**
Clifton Lake/Reservoir	Municipal	238	195	162	130	97	97
Trinity Aquifer	Municipal	630	630	630	630	630	630
College Station		**16,177**	**17,003**	**17,003**	**17,003**	**17,003**	**17,003**
Carrizo-Wilcox Aquifer	Municipal	15,505	16,261	16,261	16,261	16,261	16,261
Sparta Aquifer	Municipal	672	742	742	742	742	742
Colorado River MWD		**68,769**	**68,693**	**66,072**	**61,744**	**59,167**	**56,605**
Colorado River MWD Lake/Reservoir System	Irrigation	100	89	80	75	70	66
Colorado River MWD Lake/Reservoir System	Municipal	13,177	12,866	12,594	12,293	11,960	11,619
Direct Reuse	Irrigation	14	13	12	11	11	10
Direct Reuse	Municipal	1,841	1,842	1,843	1,844	1,844	1,844
Edwards-Trinity-Plateau and Pecos Valley Aquifers	Irrigation	278	262	228	198	180	163
Edwards-Trinity-Plateau and Pecos Valley Aquifers	Municipal	37,061	37,914	36,213	32,772	31,052	29,337
Ogallala and Edwards-Trinity-High Plains Aquifers	Irrigation	8	6	5	5	4	4
Ogallala and Edwards-Trinity-High Plains Aquifers	Municipal	1,027	916	831	774	736	707
OH Ivie Lake/Reservoir Non-System Portion	Municipal	15,263	14,785	14,266	13,772	13,310	12,855
Copperas Cove		**8,692**	**8,695**	**8,698**	**6,142**	**5,031**	**5,031**
Brazos River Authority Little River Lake/Reservoir System	Municipal	8,692	8,695	8,698	6,142	5,031	5,031
Corix Utilities Texas Inc		**3,008**	**3,025**	**3,063**	**3,065**	**3,067**	**3,070**
Dockum Aquifer	Municipal	503	520	558	560	562	565
Ellenburger-San Saba Aquifer	Municipal	175	175	175	175	175	175
Gulf Coast Aquifer System	Municipal	1,063	1,063	1,063	1,063	1,063	1,063
Hickory Aquifer	Municipal	23	23	23	23	23	23
Highland Lakes Lake/Reservoir System	Municipal	1,140	1,140	1,140	1,140	1,140	1,140
Other Aquifer	Municipal	104	104	104	104	104	104
Coryell City Water Supply District		**1,375**	**1,500**	**1,614**	**1,739**	**1,866**	**1,866**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,292	1,417	1,531	1,656	1,783	1,783
Trinity Aquifer	Municipal	83	83	83	83	83	83

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
County-Other, Erath		**3,332**	**3,332**	**3,332**	**3,331**	**3,331**	**3,331**
Brazos River Authority Little River Lake/Reservoir System	Municipal	72	72	72	72	72	72
Strawn Lake/Reservoir	Municipal	49	49	49	48	48	48
Trinity Aquifer	Municipal	3,211	3,211	3,211	3,211	3,211	3,211
County-Other, Grimes		**1,251**	**1,251**	**1,251**	**1,251**	**1,251**	**1,251**
Gulf Coast Aquifer System	Municipal	1,251	1,251	1,251	1,251	1,251	1,251
County-Other, Hood		**817**	**860**	**904**	**1,512**	**2,093**	**2,093**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	801	844	888	1,496	2,077	2,077
Trinity Aquifer	Municipal	16	16	16	16	16	16
County-Other, McLennan		**1,049**	**1,052**	**1,057**	**1,062**	**1,067**	**1,067**
Trinity Aquifer	Municipal	1,049	1,052	1,057	1,062	1,067	1,067
County-Other, Milam		**160**	**160**	**160**	**160**	**160**	**160**
Brazos River Alluvium Aquifer	Municipal	160	160	160	160	160	160
County-Other, Williamson		**5,261**	**5,374**	**5,568**	**5,844**	**6,122**	**6,122**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,705	1,818	2,023	2,297	2,580	2,580
Colorado Run-of-River	Municipal	87	87	87	87	87	87
Edwards-BFZ Aquifer	Municipal	223	218	212	209	209	209
Highland Lakes Lake/Reservoir System	Municipal	13	13	13	13	13	13
Other Aquifer	Municipal	396	396	396	396	396	396
Trinity Aquifer	Municipal	2,837	2,842	2,837	2,842	2,837	2,837
Cross Country WSC		**679**	**678**	**677**	**678**	**678**	**679**
Trinity Aquifer	Municipal	679	678	677	678	678	679
Dog Ridge WSC		**1,638**	**1,638**	**1,638**	**1,638**	**1,638**	**1,638**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,638	1,638	1,638	1,638	1,638	1,638
Double Diamond Utilities		**0**	**0**	**0**	**0**	**0**	**0**
Trinity Aquifer	Municipal	0	0	0	0	0	0
Dublin		**519**	**518**	**517**	**516**	**514**	**514**
Brazos River Authority Little River Lake/Reservoir System	Municipal	519	518	517	516	514	514
Eastland County WSD		**4,383**	**4,345**	**4,315**	**4,285**	**4,255**	**4,225**
Eastland Lake/Reservoir	Manufacturing	24	28	28	28	28	28
Eastland Lake/Reservoir	Municipal	476	472	472	472	472	472

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Leon Lake/Reservoir	Manufacturing	32	28	28	28	28	28
Leon Lake/Reservoir	Municipal	3,851	3,817	3,787	3,757	3,727	3,697
Fern Bluff MUD		**1,175**	**1,168**	**1,163**	**1,161**	**1,161**	**1,161**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,175	1,168	1,163	1,161	1,161	1,161
FHLM WSC		**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-
Files Valley WSC		**1,289**	**1,289**	**1,289**	**1,289**	**1,214**	**1,214**
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	1,289	1,289	1,289	1,289	1,214	1,214
Fort Hood		**11,995**	**11,995**	**11,995**	**11,995**	**11,995**	**11,995**
Brazos Run-of-River	Municipal	11,995	11,995	11,995	11,995	11,995	11,995
Fort Worth		**180,285**	**183,176**	**183,153**	**184,478**	**185,452**	**187,647**
Indirect Reuse	Municipal	30,148	41,321	43,057	44,808	46,560	48,311
TRWD Lake/Reservoir System	Municipal	150,137	141,855	140,096	139,670	138,892	139,336
Gatesville		**3,109**	**2,922**	**2,743**	**2,555**	**2,362**	**2,362**
Brazos River Authority Little River Lake/Reservoir System	Municipal	3,109	2,922	2,743	2,555	2,362	2,362
Georgetown		**15,700**	**14,719**	**13,739**	**12,514**	**11,229**	**11,229**
Brazos River Authority Little River Lake/Reservoir System	Municipal	15,654	14,636	13,513	12,214	10,928	10,928
Edwards-BFZ Aquifer	Municipal	46	83	226	300	301	301
Gholson WSC		**766**	**766**	**766**	**766**	**766**	**766**
Trinity Aquifer	Municipal	766	766	766	766	766	766
Giddings		**1,691**	**1,690**	**1,689**	**1,688**	**1,687**	**1,687**
Carrizo-Wilcox Aquifer	Municipal	1,691	1,690	1,689	1,688	1,687	1,687
Graham		**1,009**	**1,000**	**1,000**	**949**	**828**	**828**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	1,000	1,000	1,000	949	828	828
Graham/Eddleman Lake/Reservoir	Municipal	9	0	0	0	0	0
Granbury		**2,411**	**2,411**	**2,411**	**2,411**	**2,411**	**2,411**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	1,400	1,400	1,400	1,400	1,400	1,400
Trinity Aquifer	Municipal	1,011	1,011	1,011	1,011	1,011	1,011
Harker Heights		**8,184**	**8,164**	**8,145**	**8,125**	**8,106**	**8,106**

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Brazos River Authority Little River Lake/Reservoir System	Municipal	8,184	8,164	8,145	8,125	8,106	8,106
Hewitt		**2,549**	**2,549**	**2,549**	**2,549**	**2,549**	**2,549**
Trinity Aquifer	Municipal	1,429	1,429	1,429	1,429	1,429	1,429
Waco Lake/Reservoir	Municipal	1,120	1,120	1,120	1,120	1,120	1,120
Hilco United Services		**222**	**226**	**222**	**225**	**215**	**215**
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	150	150	150	149	143	143
Trinity Aquifer	Municipal	46	45	46	45	46	46
Woodbine Aquifer	Municipal	26	31	26	31	26	26
Hillsboro		**3,633**	**3,631**	**3,630**	**3,629**	**3,468**	**3,468**
Brazos River Authority Aquilla Lake/Reservoir System	Municipal	3,633	3,631	3,630	3,629	3,468	3,468
Huntsville		**10,490**	**11,402**	**13,003**	**14,841**	**15,182**	**15,553**
Gulf Coast Aquifer System	Municipal	6,000	6,912	8,513	10,351	10,692	11,063
Livingston-Wallisville Lake/Reservoir System	Municipal	4,490	4,490	4,490	4,490	4,490	4,490
Hutto		**1,439**	**1,435**	**1,409**	**1,395**	**1,395**	**1,395**
Brazos River Authority Little River Lake/Reservoir System	Municipal	336	336	336	336	336	336
Edwards-BFZ Aquifer	Municipal	1,103	1,099	1,073	1,059	1,059	1,059
Jarrell-Schwertner		**3,194**	**3,188**	**3,183**	**3,177**	**3,061**	**3,061**
Brazos River Authority Little River Lake/Reservoir System	Municipal	3,194	3,188	3,183	3,177	3,061	3,061
Johnson County SUD		**7,525**	**8,145**	**7,392**	**7,085**	**6,963**	**6,963**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	3,151	3,151	3,151	3,151	3,151	3,151
Trinity Aquifer	Municipal	1,537	1,541	1,537	1,541	1,537	1,537
TRWD Lake/Reservoir System	Municipal	2,837	3,453	2,704	2,393	2,275	2,275
Jonah Water SUD		**5,071**	**6,018**	**7,024**	**8,217**	**9,421**	**9,421**
Brazos River Authority Little River Lake/Reservoir System	Municipal	4,052	5,008	6,062	7,281	8,485	8,485
Edwards-BFZ Aquifer	Municipal	1,019	1,010	962	936	936	936
Keene		**1,559**	**1,559**	**1,559**	**1,559**	**1,559**	**1,559**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	1,120	1,120	1,120	1,120	1,120	1,120
Trinity Aquifer	Municipal	439	439	439	439	439	439

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Kempner WSC		**2,267**	**2,251**	**2,236**	**2,222**	**2,209**	**2,209**
Brazos River Authority Little River Lake/Reservoir System	Municipal	2,267	2,251	2,236	2,222	2,209	2,209
Killeen		**20,913**	**23,716**	**26,629**	**29,619**	**32,599**	**32,599**
Brazos River Authority Little River Lake/Reservoir System	Municipal	18,673	21,476	24,389	27,379	30,359	30,359
Direct Reuse	Municipal	2,240	2,240	2,240	2,240	2,240	2,240
Lacy Lakeview		**1,120**	**1,120**	**1,120**	**1,120**	**1,120**	**1,120**
Waco Lake/Reservoir	Municipal	1,120	1,120	1,120	1,120	1,120	1,120
Lampasas		**1,130**	**1,116**	**1,103**	**1,086**	**1,068**	**1,068**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,130	1,116	1,103	1,086	1,068	1,068
Leander		**6,400**	**6,400**	**6,400**	**6,400**	**6,400**	**6,400**
Highland Lakes Lake/Reservoir System	Municipal	6,400	6,400	6,400	6,400	6,400	6,400
Liberty Hill		**177**	**239**	**308**	**388**	**470**	**470**
Brazos River Authority Little River Lake/Reservoir System	Municipal	72	134	203	283	365	365
Trinity Aquifer	Municipal	105	105	105	105	105	105
Lower Colorado River Authority		**536,685**	**542,974**	**547,592**	**546,241**	**544,395**	**542,548**
Carrizo-Wilcox Aquifer	Steam Electric Power	4,544	4,544	4,544	4,544	4,544	4,544
Colorado Run-of-River	Irrigation	138,148	138,148	138,148	138,148	138,148	138,148
Colorado Run-of-River	Manufacturing	34,210	34,210	34,210	34,210	34,210	34,210
Highland Lakes Lake/Reservoir System	Irrigation	7,463	7,463	7,463	7,463	7,463	7,463
Highland Lakes Lake/Reservoir System	Manufacturing	776	776	776	776	776	776
Highland Lakes Lake/Reservoir System	Mining	2,214	275	275	275	275	275
Highland Lakes Lake/Reservoir System	Municipal	267,350	275,578	280,196	278,845	276,999	275,152
Highland Lakes Lake/Reservoir System	Steam Electric Power	56,980	56,980	56,980	56,980	56,980	56,980
Highland Lakes Lake/Reservoir System	Wholesale Water Provider	25,000	25,000	25,000	25,000	25,000	25,000
Mansfield		**25,628**	**24,549**	**27,918**	**35,562**	**33,569**	**32,020**
TRWD Lake/Reservoir System	Municipal	25,628	24,549	27,918	35,562	33,569	32,020
Manville WSC		**7,941**	**7,964**	**7,964**	**7,964**	**7,964**	**7,964**
Carrizo-Wilcox Aquifer	Municipal	6,744	6,767	6,767	6,767	6,767	6,767
Edwards-BFZ Aquifer	Municipal	34	34	34	34	34	34
Trinity Aquifer	Municipal	1,163	1,163	1,163	1,163	1,163	1,163
Marlin		**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	600	650	700	750	800	800
New Marlin City Lake/Reservoir	Municipal	2,200	2,150	2,100	2,050	2,000	2,000
McGregor		**2,349**	**2,330**	**2,309**	**2,287**	**2,265**	**2,265**
Brazos River Authority Little River Lake/Reservoir System	Municipal	2,349	2,330	2,309	2,287	2,265	2,265
Mexia		**167**	**170**	**168**	**163**	**155**	**155**
Carrizo-Wilcox Aquifer	Municipal	167	170	168	163	155	155
Mineral Wells		**2,754**	**2,619**	**2,483**	**2,348**	**2,212**	**2,024**
Palo Pinto Lake/Reservoir	Municipal	2,754	2,619	2,483	2,348	2,212	2,024
Morgans Point Resort		**1,935**	**1,935**	**1,935**	**1,935**	**1,935**	**1,935**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,935	1,935	1,935	1,935	1,935	1,935
Mountain Peak SUD		**3,412**	**3,405**	**3,412**	**3,405**	**3,413**	**3,413**
Joe Pool Lake/Reservoir	Municipal	1,121	1,121	1,121	1,121	1,121	1,121
Trinity Aquifer	Municipal	2,291	2,284	2,291	2,284	2,292	2,292
Navasota		**131**	**131**	**131**	**107**	**62**	**62**
Gulf Coast Aquifer System	Municipal	131	131	131	107	62	62
North Bosque WSC		**605**	**605**	**605**	**605**	**605**	**605**
Trinity Aquifer	Municipal	605	605	605	605	605	605
North Central Texas Municipal Water Authority		**75**	**60**	**45**	**30**	**15**	**0**
Millers Creek Lake/Reservoir	Municipal	75	60	45	30	15	0
Palo Pinto County MWD 1		**5,788**	**5,647**	**5,507**	**5,367**	**5,226**	**5,026**
Palo Pinto Lake/Reservoir	Municipal	5,287	5,146	5,006	4,866	4,725	4,531
Palo Pinto Lake/Reservoir	Steam Electric Power	501	501	501	501	501	495
Potosi WSC		**307**	**307**	**143**	**0**	**0**	**0**
OH Ivie Lake/Reservoir Non-System Portion	Municipal	307	307	143	0	0	0
Robinson		**1,101**	**1,101**	**1,101**	**1,101**	**1,101**	**1,101**
Brazos Run-of-River	Municipal	0	0	0	0	0	0
Trinity Aquifer	Municipal	1,101	1,101	1,101	1,101	1,101	1,101
Rockdale		**1,154**	**1,154**	**1,154**	**1,154**	**1,154**	**1,154**
Carrizo-Wilcox Aquifer	Municipal	1,154	1,154	1,154	1,154	1,154	1,154
Round Rock		**21,494**	**21,399**	**21,209**	**20,950**	**20,679**	**20,679**
Brazos River Authority Little River Lake/Reservoir System	Municipal	15,454	15,236	14,917	14,524	14,116	14,116
Edwards-BFZ Aquifer	Municipal	123	110	103	101	101	101

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Highland Lakes Lake/Reservoir System	Municipal	5,917	6,053	6,189	6,325	6,462	6,462
Salado WSC		**2,186**	**2,186**	**2,186**	**2,186**	**2,186**	**2,186**
Brazos River Authority Little River Lake/Reservoir System	Municipal	183	183	183	183	183	183
Edwards-BFZ Aquifer	Municipal	2,003	2,003	2,003	2,003	2,003	2,003
Salt Fork Water Quality Corporation (SFWQC)		**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-
Somervell County Water District		**1,749**	**1,749**	**1,749**	**1,749**	**1,749**	**1,749**
Trinity Aquifer	Municipal	349	349	349	349	349	349
Wheeler Branch Off-Channel Lake/Reservoir	Municipal	1,400	1,400	1,400	1,400	1,400	1,400
Sonterra MUD		**2,982**	**2,980**	**2,969**	**2,963**	**2,963**	**2,963**
Brazos River Authority Little River Lake/Reservoir System	Municipal	2,744	2,744	2,744	2,744	2,744	2,744
Edwards-BFZ Aquifer	Municipal	238	236	225	219	219	219
Southwest Milam WSC		**1,350**	**1,266**	**1,438**	**1,512**	**1,512**	**1,512**
Carrizo-Wilcox Aquifer	Municipal	1,350	1,266	1,438	1,512	1,512	1,512
Stamford		**1,198**	**1,198**	**1,199**	**1,197**	**1,198**	**1,198**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	881	960	1,040	1,118	1,198	1,198
Stamford Lake/Reservoir	Municipal	317	238	159	79	0	0
Steamboat Mountain WSC		**307**	**307**	**143**	**0**	**0**	**0**
OH Ivie Lake/Reservoir Non-System Portion	Municipal	307	307	143	0	0	0
Stephenville		**5,607**	**5,600**	**5,594**	**5,587**	**5,578**	**5,578**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,862	1,862	1,862	1,862	1,862	1,862
Trinity Aquifer	Municipal	3,745	3,738	3,732	3,725	3,716	3,716
Sweetwater		**1,663**	**1,667**	**1,671**	**1,671**	**1,671**	**1,671**
Dockum Aquifer	Municipal	1,663	1,667	1,671	1,671	1,671	1,671
Tarrant Regional WD		**484,580**	**491,494**	**488,970**	**486,592**	**484,211**	**481,833**
Indirect Reuse	Municipal	30,148	41,321	43,057	44,808	46,560	48,311
TRWD Lake/Reservoir System	Irrigation	1,121	1,000	932	850	792	743
TRWD Lake/Reservoir System	Mining	772	680	1,050	1,352	1,838	2,571
TRWD Lake/Reservoir System	Municipal	402,355	397,387	394,834	393,084	390,358	387,210
TRWD Lake/Reservoir System	Steam Electric Power	9,974	14,326	13,812	13,200	12,749	12,381
TRWD Lake/Reservoir System	Wholesale Water Provider	40,210	36,780	35,285	33,298	31,914	30,617
Taylor		**3,010**	**3,245**	**3,527**	**3,873**	**4,237**	**4,237**

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Brazos River Authority Little River Lake/Reservoir System	Municipal	3,010	3,245	3,527	3,873	4,237	4,237
Temple		**19,563**	**19,563**	**19,563**	**19,563**	**19,563**	**19,563**
Brazos River Authority Little River Lake/Reservoir System	Municipal	17,350	17,634	17,919	18,203	18,487	18,487
Brazos Run-of-River	Municipal	2,213	1,929	1,644	1,360	1,076	1,076
Texas A&M University		**6,066**	**6,412**	**6,412**	**6,412**	**6,412**	**6,412**
Carrizo-Wilcox Aquifer	Municipal	5,146	5,397	5,397	5,397	5,397	5,397
Sparta Aquifer	Municipal	920	1,015	1,015	1,015	1,015	1,015
Texas State Technical College		**954**	**1,013**	**1,073**	**1,132**	**1,193**	**1,193**
Waco Lake/Reservoir	Municipal	954	1,013	1,073	1,132	1,193	1,193
Upper Leon MWD		**4,572**	**4,572**	**4,572**	**4,572**	**4,572**	**4,572**
Brazos River Authority Little River Lake/Reservoir System	Municipal	4,572	4,572	4,572	4,572	4,572	4,572
Venus		**411**	**405**	**462**	**493**	**518**	**518**
TRWD Lake/Reservoir System	Municipal	308	302	359	390	415	415
Woodbine Aquifer	Municipal	103	103	103	103	103	103
Waco		**32,201**	**31,462**	**30,670**	**29,927**	**29,046**	**28,942**
Brazos Run-of-River	Municipal	5,600	5,600	5,600	5,600	5,600	5,600
Trinity Aquifer	Municipal	161	161	161	161	161	161
Waco Lake/Reservoir	Municipal	26,440	25,701	24,909	24,166	23,285	23,181
Wellborn SUD		**7,298**	**7,588**	**7,586**	**7,587**	**7,587**	**7,587**
Brazos River Authority Main Stem Lake/Reservoir System	Municipal	1,120	1,120	1,120	1,120	1,120	1,120
Carrizo-Wilcox Aquifer	Municipal	4,774	4,991	4,990	4,990	4,990	4,990
Sparta Aquifer	Municipal	692	765	765	765	765	765
Yegua-Jackson Aquifer	Municipal	712	712	711	712	712	712
West Central Texas MWD		**15,385**	**13,260**	**10,900**	**8,540**	**6,200**	**6,200**
Hubbard Creek Lake/Reservoir	Municipal	15,385	13,260	10,900	8,540	6,200	6,200
Wickson Creek SUD		**4,519**	**4,549**	**4,425**	**4,311**	**4,222**	**4,223**
Carrizo-Wilcox Aquifer	Municipal	3,113	3,077	2,953	2,840	2,751	2,752
Sparta Aquifer	Municipal	1,172	1,240	1,240	1,239	1,239	1,239
Yegua-Jackson Aquifer	Municipal	234	232	232	232	232	232
Williamson County MUD 11		**816**	**816**	**817**	**818**	**820**	**820**
Brazos River Authority Little River Lake/Reservoir System	Municipal	816	816	817	818	820	820

Major Water Provider	Category of Use	Supplies Available in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Williamson County WSID 3		**1,189**	**1,189**	**1,189**	**1,189**	**1,189**	**1,189**
Carrizo-Wilcox Aquifer	Municipal	939	939	939	939	939	939
Trinity Aquifer	Municipal	250	250	250	250	250	250
Woodway		**3,428**	**3,634**	**3,885**	**4,126**	**4,378**	**4,378**
Brazos River Authority Little River Lake/Reservoir System	Municipal	1,310	1,301	1,293	1,284	1,275	1,275
Trinity Aquifer	Municipal	2,114	2,114	2,114	2,114	2,114	2,114
Waco Lake/Reservoir	Municipal	4	219	478	728	989	989

Table O.3. Major Water Providers Needs

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
439 WSC	Municipal	107	-145	-383	-583	-731	-811
439 WSC Total		**107**	**-145**	**-383**	**-583**	**-731**	**-811**
Abilene	Municipal	0	0	0	-2,926	-7,479	-10,721
Abilene Total		**0**	**0**	**0**	**-2,926**	**-7,479**	**-10,721**
Acton MUD	Municipal	2,038	1,805	1,546	704	-131	-407
Acton MUD Total		**2,038**	**1,805**	**1,546**	**704**	**-131**	**-407**
Alvarado	Municipal	1,568	1,471	1,370	1,280	1,178	1,064
Alvarado Total		**1,568**	**1,471**	**1,370**	**1,280**	**1,178**	**1,064**
Anson	Municipal	28	47	72	97	123	143
Anson Total		**28**	**47**	**72**	**97**	**123**	**143**
Aquilla WSD	Municipal	0	0	0	0	-262	-262
Aquilla WSD Total		**0**	**0**	**0**	**0**	**-262**	**-262**
Arlington	Municipal	-13,645	-21,996	-27,756	-34,523	-40,944	-45,822
Arlington Total		**-13,645**	**-21,996**	**-27,756**	**-34,523**	**-40,944**	**-45,822**
Bell County WCID 1	Municipal	-98	-98	-98	-2,655	-5,143	-5,143
Bell County WCID 1 Total		**-98**	**-98**	**-98**	**-2,655**	**-5,143**	**-5,143**
Bell County WCID 3	Municipal	0	0	0	0	0	0
Bell County WCID 3 Total		**0**	**0**	**0**	**0**	**0**	**0**
Bellmead	Municipal	1,605	1,862	1,518	1,788	1,447	1,708
Bellmead Total		**1,605**	**1,862**	**1,518**	**1,788**	**1,447**	**1,708**
Belton	Municipal	2,512	1,500	483	-447	-2,861	-3,394
Belton Total		**2,512**	**1,500**	**483**	**-447**	**-2,861**	**-3,394**
Bethesda WSC	Municipal	-2,401	-2,276	-3,242	-4,025	-5,095	-6,403
Bethesda WSC Total		**-2,401**	**-2,276**	**-3,242**	**-4,025**	**-5,095**	**-6,403**
Bistone Municipal Water Supply District	Municipal	-92	-151	-208	-213	-202	-192
Bistone Municipal Water Supply District Total		**-92**	**-151**	**-208**	**-213**	**-202**	**-192**
Bluebonnet WSC	Municipal	-228	-271	-317	-362	-408	-454
Bluebonnet WSC Total		**-228**	**-271**	**-317**	**-362**	**-408**	**-454**
Brandon Irene WSC	Municipal	-73	-92	-110	-127	-158	-176
Brandon Irene WSC Total		**-73**	**-92**	**-110**	**-127**	**-158**	**-176**
Brazos River Authority	Irrigation	-1,178	-1,217	-1,254	-1,297	-1,346	-1,391
	Manufacturing	0	0	0	-435	-1,427	-2,387
	Mining	0	0	0	0	0	0
	Municipal	-28,388	-29,135	-29,884	-31,395	-33,883	-36,555
	Steam Electric Power	0	0	0	-2,524	-7,406	-12,546

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
	Wholesale Water Provider	-15,076	-15,565	-16,055	-18,903	-25,025	-30,599
Brazos River Authority Total		**-44,642**	**-45,917**	**-47,193**	**-54,554**	**-69,087**	**-83,478**
Brenham	Municipal	-583	-631	-614	-618	-623	-627
Brenham Total		**-583**	**-631**	**-614**	**-618**	**-623**	**-627**
Bruceville Eddy	Municipal	-319	-439	-573	-715	-866	-1,021
Bruceville Eddy Total		**-319**	**-439**	**-573**	**-715**	**-866**	**-1,021**
Brushy Creek MUD	Municipal	-792	-803	-845	-877	-899	-899
Brushy Creek MUD Total		**-792**	**-803**	**-845**	**-877**	**-899**	**-899**
Bryan	Municipal	-6,554	-8,468	-12,507	-17,324	-25,433	-35,740
Bryan Total		**-6,554**	**-8,468**	**-12,507**	**-17,324**	**-25,433**	**-35,740**
Burleson	Municipal	0	0	0	0	0	0
Burleson Total		**0**	**0**	**0**	**0**	**0**	**0**
Cameron	Municipal	1,350	1,373	1,415	1,454	1,494	1,536
Cameron Total		**1,350**	**1,373**	**1,415**	**1,454**	**1,494**	**1,536**
Cedar Park	Municipal	-5,898	-6,126	-6,244	-6,244	-6,244	-6,244
Cedar Park Total		**-5,898**	**-6,126**	**-6,244**	**-6,244**	**-6,244**	**-6,244**
Central Texas WSC	Municipal	-169	-174	-180	-185	-191	-196
Central Texas WSC Total		**-169**	**-174**	**-180**	**-185**	**-191**	**-196**
Cisco	Municipal	198	186	166	159	150	137
Cisco Total		**198**	**186**	**166**	**159**	**150**	**137**
Cleburne	Municipal	52	-1,347	-2,729	-4,005	-5,653	-6,735
Cleburne Total		**52**	**-1,347**	**-2,729**	**-4,005**	**-5,653**	**-6,735**
Clifton	Municipal	96	-2	-98	-197	-302	-380
Clifton Total		**96**	**-2**	**-98**	**-197**	**-302**	**-380**
College Station	Municipal	-7,763	-10,044	-14,816	-20,401	-19,732	-19,152
College Station Total		**-7,763**	**-10,044**	**-14,816**	**-20,401**	**-19,732**	**-19,152**
Colorado River MWD	Irrigation	0	-30	-75	-111	-135	-157
	Municipal	-7,897	6,616	-1,076	-7,575	-12,337	-17,103
Colorado River MWD Total		**-7,897**	**6,586**	**-1,151**	**-7,686**	**-12,472**	**-17,260**
Copperas Cove	Municipal	2,305	238	-1,062	-4,482	-5,870	-5,510
Copperas Cove Total		**2,305**	**238**	**-1,062**	**-4,482**	**-5,870**	**-5,510**
Corix Utilities Texas Inc	Municipal	-745	-892	-997	-1,097	-1,212	-1,333
Corix Utilities Texas Inc Total		**-745**	**-892**	**-997**	**-1,097**	**-1,212**	**-1,333**
Coryell City Water Supply District	Municipal	254	353	448	574	700	699
Coryell City Water Supply District Total		**254**	**353**	**448**	**574**	**700**	**699**

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
County-Other, Erath	Municipal	857	661	417	128	-195	-559
County-Other, Erath Total		**857**	**661**	**417**	**128**	**-195**	**-559**
County-Other, Grimes	Municipal	-183	-248	-297	-318	-326	-312
County-Other, Grimes Total		**-183**	**-248**	**-297**	**-318**	**-326**	**-312**
County-Other, Hood	Municipal	-3,310	-3,763	-4,234	-4,180	-4,227	-4,938
County-Other, Hood Total		**-3,310**	**-3,763**	**-4,234**	**-4,180**	**-4,227**	**-4,938**
County-Other, McLennan	Municipal	315	99	54	36	-6	-108
County-Other, McLennan Total		**315**	**99**	**54**	**36**	**-6**	**-108**
County-Other, Milam	Municipal	-693	-5,415	-8,960	-14,277	-14,277	-14,277
County-Other, Milam Total		**-693**	**-5,415**	**-8,960**	**-14,277**	**-14,277**	**-14,277**
County-Other, Williamson	Municipal	-2,933	-10,227	-13,968	-18,417	-23,851	-31,043
County-Other, Williamson Total		**-2,933**	**-10,227**	**-13,968**	**-18,417**	**-23,851**	**-31,043**
Cross Country WSC	Municipal	36	-44	-113	-190	-278	-374
Cross Country WSC Total		**36**	**-44**	**-113**	**-190**	**-278**	**-374**
Dog Ridge WSC	Municipal	696	581	491	429	359	282
Dog Ridge WSC Total		**696**	**581**	**491**	**429**	**359**	**282**
Double Diamond Utilities	Municipal	-3,240	-3,498	-3,732	-3,960	-4,212	-4,499
Double Diamond Utilities Total		**-3,240**	**-3,498**	**-3,732**	**-3,960**	**-4,212**	**-4,499**
Dublin	Municipal	196	230	258	291	318	343
Dublin Total		**196**	**230**	**258**	**291**	**318**	**343**
Eastland County WSD	Manufacturing	0	0	0	0	0	0
	Municipal	-1,012	-1,050	-1,080	-1,110	-1,140	-1,170
Eastland County WSD Total		**-1,012**	**-1,050**	**-1,080**	**-1,110**	**-1,140**	**-1,170**
Fern Bluff MUD	Municipal	-2	-53	-107	-110	-111	-111
Fern Bluff MUD Total		**-2**	**-53**	**-107**	**-110**	**-111**	**-111**
FHLM WSC	-	0	0	0	0	0	0
FHLM WSC Total		**0**	**0**	**0**	**0**	**0**	**0**
Files Valley WSC	Municipal	417	364	314	262	130	67
Files Valley WSC Total		**417**	**364**	**314**	**262**	**130**	**67**
Fort Hood	Municipal	3,467	3,156	2,816	2,475	2,135	1,795
Fort Hood Total		**3,467**	**3,156**	**2,816**	**2,475**	**2,135**	**1,795**
Fort Worth	Municipal	-36,962	-73,586	-80,851	-100,021	-121,329	-143,219
Fort Worth Total		**-36,962**	**-73,586**	**-80,851**	**-100,021**	**-121,329**	**-143,219**
Gatesville	Municipal	-1,119	-1,379	-1,629	-1,823	-2,028	-2,046
Gatesville Total		**-1,119**	**-1,379**	**-1,629**	**-1,823**	**-2,028**	**-2,046**
Georgetown	Municipal	-32,061	-68,196	-99,856	-127,315	-159,222	-186,586

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Georgetown Total		**-32,061**	**-68,196**	**-99,856**	**-127,315**	**-159,222**	**-186,586**
Gholson WSC	Municipal	139	65	1	-72	-154	-246
Gholson WSC Total		**139**	**65**	**1**	**-72**	**-154**	**-246**
Giddings	Municipal	562	549	565	585	607	634
Giddings Total		**562**	**549**	**565**	**585**	**607**	**634**
Gordon	Municipal	-166	-166	-164	-164	-163	-161
Gordon Total		**-166**	**-166**	**-164**	**-164**	**-163**	**-161**
Graham	Municipal	-1,461	-1,442	-1,338	-1,373	-1,474	-1,450
Graham Total		**-1,461**	**-1,442**	**-1,338**	**-1,373**	**-1,474**	**-1,450**
Granbury	Municipal	-767	-1,190	-1,630	-2,111	-2,651	-3,259
Granbury Total		**-767**	**-1,190**	**-1,630**	**-2,111**	**-2,651**	**-3,259**
Harker Heights	Municipal	1,011	-88	-1,203	-1,568	-1,587	-1,587
Harker Heights Total		**1,011**	**-88**	**-1,203**	**-1,568**	**-1,587**	**-1,587**
Hewitt	Municipal	-740	-729	-729	-729	-729	-729
Hewitt Total		**-740**	**-729**	**-729**	**-729**	**-729**	**-729**
Hilco United Services	Municipal	-1,119	-1,169	-1,222	-1,270	-1,336	-1,398
Hilco United Services Total		**-1,119**	**-1,169**	**-1,222**	**-1,270**	**-1,336**	**-1,398**
Hillsboro	Municipal	168	73	7	-64	-302	-390
Hillsboro Total		**168**	**73**	**7**	**-64**	**-302**	**-390**
Huntsville	Municipal	0	0	0	-115	-1,894	-3,831
Huntsville Total		**0**	**0**	**0**	**-115**	**-1,894**	**-3,831**
Hutto	Municipal	-1,264	-2,296	-3,771	-5,796	-8,588	-12,465
Hutto Total		**-1,264**	**-2,296**	**-3,771**	**-5,796**	**-8,588**	**-12,465**
Jarrell-Schwertner	Municipal	-5,990	-6,720	-7,170	-7,632	-8,227	-8,729
Jarrell-Schwertner Total		**-5,990**	**-6,720**	**-7,170**	**-7,632**	**-8,227**	**-8,729**
Johnson County SUD	Municipal	-2,125	-3,969	-6,082	-7,600	-9,084	-10,616
Johnson County SUD Total		**-2,125**	**-3,969**	**-6,082**	**-7,600**	**-9,084**	**-10,616**
Jonah Water SUD	Municipal	-1,167	-2,845	-4,953	-7,160	-9,784	-14,089
Jonah Water SUD Total		**-1,167**	**-2,845**	**-4,953**	**-7,160**	**-9,784**	**-14,089**
Keene	Municipal	689	647	606	573	537	495
Keene Total		**689**	**647**	**606**	**573**	**537**	**495**
Kempner WSC	Municipal	-1,112	-1,236	-1,279	-1,264	-1,246	-1,208
Kempner WSC Total		**-1,112**	**-1,236**	**-1,279**	**-1,264**	**-1,246**	**-1,208**
Killeen	Municipal	-2,496	-2,986	-3,154	-3,589	-3,980	-7,352
Killeen Total		**-2,496**	**-2,986**	**-3,154**	**-3,589**	**-3,980**	**-7,352**
Lacy Lakeview	Municipal	98	25	-42	-111	-189	-277

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Lacy Lakeview Total		**98**	**25**	**-42**	**-111**	**-189**	**-277**
Lampasas	Municipal	-432	-604	-778	-933	-1,008	-977
Lampasas Total		**-432**	**-604**	**-778**	**-933**	**-1,008**	**-977**
Leander	Municipal	-17,055	-23,316	-24,836	-24,852	-24,852	-24,852
Leander Total		**-17,055**	**-23,316**	**-24,836**	**-24,852**	**-24,852**	**-24,852**
Liberty Hill	Municipal	-586	-866	-1,205	-1,569	-1,988	-2,551
Liberty Hill Total		**-586**	**-866**	**-1,205**	**-1,569**	**-1,988**	**-2,551**
Lower Colorado River Authority	Irrigation	0	0	0	0	0	0
	Manufacturing	-6,159	-6,159	-6,159	-6,159	-6,159	-6,159
	Mining	0	0	0	0	0	0
	Municipal	-29,979	-21,751	-17,133	-18,484	-20,330	-22,177
	Steam Electric Power	-9,240	-9,240	-9,240	-9,240	-9,240	-9,240
	Wholesale Water Provider	0	0	0	0	0	0
Lower Colorado River Authority Total		**-45,378**	**-37,150**	**-32,532**	**-33,883**	**-35,729**	**-37,576**
Mansfield	Municipal	-3,938	-7,208	-10,809	-18,432	-21,210	-23,639
Mansfield Total		**-3,938**	**-7,208**	**-10,809**	**-18,432**	**-21,210**	**-23,639**
Manville WSC	Municipal	2,761	1,834	990	151	-799	-1,876
Manville WSC Total		**2,761**	**1,834**	**990**	**151**	**-799**	**-1,876**
Marlin	Municipal	1,457	1,534	1,596	1,649	1,674	1,659
Marlin Total		**1,457**	**1,534**	**1,596**	**1,649**	**1,674**	**1,659**
McGregor	Municipal	-253	-411	-558	-698	-856	-1,011
McGregor Total		**-253**	**-411**	**-558**	**-698**	**-856**	**-1,011**
Mexia	Municipal	-859	-827	-792	-763	-735	-697
Mexia Total		**-859**	**-827**	**-792**	**-763**	**-735**	**-697**
Mineral Wells	Municipal	-920	-1,246	-1,583	-1,922	-2,058	-2,246
Mineral Wells Total		**-920**	**-1,246**	**-1,583**	**-1,922**	**-2,058**	**-2,246**
Morgans Point Resort	Municipal	1,161	1,092	1,019	946	874	801
Morgans Point Resort Total		**1,161**	**1,092**	**1,019**	**946**	**874**	**801**
Mountain Peak SUD	Municipal	-4,592	-7,128	-9,939	-12,916	-16,247	-20,016
Mountain Peak SUD Total		**-4,592**	**-7,128**	**-9,939**	**-12,916**	**-16,247**	**-20,016**
Navasota	Municipal	-1,450	-1,510	-1,564	-1,630	-1,722	-1,773
Navasota Total		**-1,450**	**-1,510**	**-1,564**	**-1,630**	**-1,722**	**-1,773**
North Bosque WSC	Municipal	-33	-109	-196	-293	-401	-524
North Bosque WSC Total		**-33**	**-109**	**-196**	**-293**	**-401**	**-524**
North Central Texas Municipal Water Authority	Municipal	-1,722	-1,737	-1,724	-1,709	-1,695	-1,678

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
North Central Texas Municipal Water Authority Total		**-1,722**	**-1,737**	**-1,724**	**-1,709**	**-1,695**	**-1,678**
Palo Pinto County MWD 1	Municipal	-264	-505	-700	-911	-1,123	-1,375
	Steam Electric Power	-3,499	-3,499	-3,499	-3,499	-3,499	-3,505
Palo Pinto County MWD 1 Total		**-3,763**	**-4,004**	**-4,199**	**-4,410**	**-4,622**	**-4,880**
Potosi WSC	Municipal	-857	-1,012	-1,313	-1,616	-1,792	-1,989
Potosi WSC Total		**-857**	**-1,012**	**-1,313**	**-1,616**	**-1,792**	**-1,989**
Robinson	Municipal	-1,869	-2,279	-2,756	-3,300	-3,922	-4,632
Robinson Total		**-1,869**	**-2,279**	**-2,756**	**-3,300**	**-3,922**	**-4,632**
Rockdale	Municipal	-455	-462	-473	-485	-496	-508
Rockdale Total		**-455**	**-462**	**-473**	**-485**	**-496**	**-508**
Round Rock	Municipal	-1,531	-7,033	-12,571	-13,985	-15,316	-16,256
Round Rock Total		**-1,531**	**-7,033**	**-12,571**	**-13,985**	**-15,316**	**-16,256**
Salado WSC	Municipal	-273	-567	-900	-1,273	-1,692	-2,163
Salado WSC Total		**-273**	**-567**	**-900**	**-1,273**	**-1,692**	**-2,163**
Salt Fork Water Quality Corporation (SFWQC)	-	0	0	0	0	0	0
Salt Fork Water Quality Corporation (SFWQC) Total		**0**	**0**	**0**	**0**	**0**	**0**
Somervell County Water District	Municipal	262	215	195	207	220	234
Somervell County Water District Total		**262**	**215**	**195**	**207**	**220**	**234**
Sonterra MUD	Municipal	688	-627	-2,197	-3,904	-5,820	-7,977
Sonterra MUD Total		**688**	**-627**	**-2,197**	**-3,904**	**-5,820**	**-7,977**
Southwest Milam WSC	Municipal	-437	-604	-520	-546	-661	-794
Southwest Milam WSC Total		**-437**	**-604**	**-520**	**-546**	**-661**	**-794**
Stamford	Municipal	470	527	589	652	728	818
Stamford Total		**470**	**527**	**589**	**652**	**728**	**818**
Steamboat Mountain WSC	Municipal	-653	-893	-1,267	-1,665	-1,947	-2,258
Steamboat Mountain WSC Total		**-653**	**-893**	**-1,267**	**-1,665**	**-1,947**	**-2,258**
Stephenville	Municipal	1,671	1,295	829	200	-497	-1,260
Stephenville Total		**1,671**	**1,295**	**829**	**200**	**-497**	**-1,260**
Sweetwater	Municipal	-145	-119	-91	-62	-32	-1
Sweetwater Total		**-145**	**-119**	**-91**	**-62**	**-32**	**-1**
Tarrant Regional WD	Irrigation	-171	-292	-360	-442	-500	-549
	Mining	-118	-200	-406	-700	-1,161	-1,898
	Municipal	-71,683	-136,224	-178,836	-239,874	-293,487	-345,689
	Steam Electric Power	-1,531	-9,709	-10,223	-10,835	-11,286	-11,654

Major Water Provider/Use Category		MWP Needs/Surplus by Category of Use in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
	Wholesale Water Provider	-6,178	-10,800	-13,659	-17,261	-20,160	-22,606
Tarrant Regional WD Total		**-79,681**	**-157,225**	**-203,484**	**-269,112**	**-326,594**	**-382,396**
Taylor	Municipal	-540	-1,838	-3,304	-4,577	-6,033	-8,080
Taylor Total		**-540**	**-1,838**	**-3,304**	**-4,577**	**-6,033**	**-8,080**
Temple	Municipal	-9,219	-12,564	-15,188	-16,979	-18,988	-21,240
Temple Total		**-9,219**	**-12,564**	**-15,188**	**-16,979**	**-18,988**	**-21,240**
Texas A&M University	Municipal	-4,349	-3,988	-3,988	-3,988	-3,988	-3,988
Texas A&M University Total		**-4,349**	**-3,988**	**-3,988**	**-3,988**	**-3,988**	**-3,988**
Texas State Technical College	Municipal	-1,062	-1,002	-942	-883	-822	-822
Texas State Technical College Total		**-1,062**	**-1,002**	**-942**	**-883**	**-822**	**-822**
Upper Leon MWD	Municipal	0	0	0	0	0	0
Upper Leon MWD Total		**0**	**0**	**0**	**0**	**0**	**0**
Venus	Municipal	-31	-7	76	135	186	210
Venus Total		**-31**	**-7**	**76**	**135**	**186**	**210**
Waco	Municipal	-5,925	-10,128	-13,987	-18,040	-22,634	-26,900
Waco Total		**-5,925**	**-10,128**	**-13,987**	**-18,040**	**-22,634**	**-26,900**
Wellborn SUD	Municipal	1,181	700	-482	-1,944	-3,587	-5,433
Wellborn SUD Total		**1,181**	**700**	**-482**	**-1,944**	**-3,587**	**-5,433**
West Central Texas MWD	Municipal	-235	0	0	0	0	0
West Central Texas MWD Total		**-235**	**0**	**0**	**0**	**0**	**0**
Wickson Creek SUD	Municipal	996	598	-145	-1,005	-1,933	-2,874
Wickson Creek SUD Total		**996**	**598**	**-145**	**-1,005**	**-1,933**	**-2,874**
Williamson County MUD 11	Municipal	-106	-505	-974	-1,487	-2,064	-2,714
Williamson County MUD 11 Total		**-106**	**-505**	**-974**	**-1,487**	**-2,064**	**-2,714**
Williamson County WSID 3	Municipal	187	-84	-414	-779	-1,191	-1,658
Williamson County WSID 3 Total		**187**	**-84**	**-414**	**-779**	**-1,191**	**-1,658**
Woodway	Municipal	-545	-333	-82	159	411	411
Woodway Total		**-545**	**-333**	**-82**	**159**	**411**	**411**

Table O.4. Major Water Providers Secondary Needs

Major Water Provider/Use Category		Second Tier Needs Analysis (after Conservation) in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
439 WSC	Municipal	107	-145	-383	-583	-731	-811
Abilene	Municipal	0	0	0	-2,926	-7,479	-10,721
Acton MUD	Municipal	2,038	1,805	1,546	704	-131	-407
Alvarado	Municipal	1,568	1,471	1,370	1,280	1,178	1,064
Anson	Municipal	28	47	72	97	123	143
Bell County WCID 1	Municipal	-98	-98	-98	-98	-98	-98
Bell County WCID 3	Municipal	0	0	0	0	0	0
Bellmead	Municipal	1,605	1,862	1,518	1,788	1,447	1,708
Belton	Municipal	2,512	1,500	483	-447	-2,861	-3,394
Bethesda WSC	Municipal	-2,401	-2,276	-3,242	-4,025	-5,095	-6,403
Bistone Municipal Water Supply District	Municipal	-92	-151	-208	-213	-202	-192
Brandon Irene WSC	Municipal	-73	-92	-110	-127	-158	-176
Brenham	Municipal	-583	-631	-614	-618	-623	-627
Bruceville Eddy	Municipal	-45	-79	-189	-303	-428	-525
Brushy Creek MUD	Municipal	-792	-803	-845	-877	-899	-899
Bryan	Municipal	-6,554	-8,468	-12,507	-17,324	-25,433	-35,740
Burleson	Municipal	0	0	0	0	0	0
Cameron	Municipal	1,350	1,373	1,415	1,454	1,494	1,536
Cedar Park	Municipal	-5,898	-6,126	-6,244	-6,244	-6,244	-6,244
Cisco	Municipal	198	186	166	159	150	137
Cleburne	Municipal	52	-1,347	-2,729	-4,005	-5,653	-6,735
Clifton	Municipal	96	-2	-98	-197	-302	-380
College Station	Municipal	-7,763	-10,044	-14,816	-20,401	-19,732	-19,152
Copperas Cove	Municipal	2,305	238	-1,062	-4,482	-5,870	-5,510
Corix Utilities Texas Inc	Municipal	-4,475	-4,762	-4,537	-4,507	-4,492	-4,453
Coryell City Water Supply District	Municipal	352	451	547	672	798	795
County-Other, Erath	Municipal	857	661	417	128	-195	-559
County-Other, Grimes	Municipal	-183	-248	-297	-318	-326	-312
County-Other, Hood	Municipal	-3,310	-3,763	-4,234	-4,180	-4,227	-4,938
County-Other, McLennan	Municipal	315	99	54	36	-6	-108
County-Other, Milam	Municipal	-693	-5,415	-8,960	-14,277	-14,277	-14,277
County-Other, Williamson	Municipal	-2,933	-10,227	-13,968	-18,417	-23,851	-31,043
Cross Country WSC	Municipal	46	-34	-104	-181	-270	-366
Dog Ridge WSC	Municipal	696	581	491	429	359	282
Double Diamond Utilities	Municipal	-3,240	-3,498	-3,732	-3,960	-4,212	-4,499

Major Water Provider/Use Category		Second Tier Needs Analysis (after Conservation) in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Dublin	Municipal	196	230	258	291	318	343
Fern Bluff MUD	Municipal	-2	-53	-107	-110	-111	-111
Files Valley WSC	Municipal	417	364	314	262	130	67
Fort Hood	Municipal	3,467	3,156	2,816	2,475	2,135	1,795
Gatesville	Municipal	-1,119	-1,379	-1,629	-1,823	-2,028	-2,046
Georgetown	Municipal	-31,662	-67,662	-99,271	-126,730	-158,628	-186,001
Gholson WSC	Municipal	139	65	1	-72	-154	-246
Giddings	Municipal	562	549	565	585	607	634
Gordon	Municipal	-166	-166	-164	-164	-163	-161
Graham	Municipal	-1,461	-1,442	-1,338	-1,373	-1,474	-1,450
Granbury	Municipal	-767	-1,190	-1,630	-2,111	-2,651	-3,259
Harker Heights	Municipal	1,011	-88	-1,203	-1,568	-1,587	-1,587
Hewitt	Municipal	-740	-729	-729	-729	-729	-729
Hilco United Services	Municipal	-1,119	-1,169	-1,222	-1,270	-1,336	-1,398
Hillsboro	Municipal	168	73	7	-64	-302	-390
Hutto	Municipal	-1,264	-2,296	-3,771	-5,796	-8,588	-12,465
Jarrell-Schwertner	Municipal	-5,990	-6,720	-7,170	-7,632	-8,227	-8,729
Johnson County SUD	Municipal	-2,125	-3,969	-6,082	-7,600	-9,084	-10,616
Jonah Water SUD	Municipal	-1,167	-2,845	-4,953	-7,160	-9,784	-14,089
Keene	Municipal	689	647	606	573	537	495
Kempner WSC	Municipal	-890	-996	-1,024	-997	-964	-917
Killeen	Municipal	-2,496	-2,986	-3,154	-3,589	-3,980	-7,352
Lacy Lakeview	Municipal	98	25	-42	-111	-189	-277
Lampasas	Municipal	-432	-604	-778	-933	-1,008	-977
Leander	Municipal	-17,055	-23,316	-24,836	-24,852	-24,852	-24,852
Liberty Hill	Municipal	-586	-866	-1,205	-1,569	-1,988	-2,551
Marlin	Municipal	1,457	1,534	1,596	1,649	1,674	1,659
McGregor	Municipal	-253	-411	-558	-698	-856	-1,011
Mexia	Municipal	-859	-827	-792	-763	-735	-697
Mineral Wells	Municipal	-920	-1,246	-1,583	-1,922	-2,058	-2,246
Morgans Point Resort	Municipal	1,161	1,092	1,019	946	874	801
Navasota	Municipal	-1,450	-1,510	-1,564	-1,630	-1,722	-1,773
North Bosque WSC	Municipal	-33	-109	-196	-293	-401	-524
Potosi WSC	Municipal	-857	-1,012	-1,313	-1,616	-1,792	-1,989
Robinson	Municipal	-1,869	-2,279	-2,756	-3,300	-3,922	-4,632
Rockdale	Municipal	-455	-462	-473	-485	-496	-508

Major Water Provider/Use Category		Second Tier Needs Analysis (after Conservation) in Each Decade (acft/yr)					
		2030	2040	2050	2060	2070	2080
Round Rock	Municipal	-1,531	-7,033	-12,571	-13,985	-15,316	-16,256
Salado WSC	Municipal	-273	-567	-900	-1,273	-1,692	-2,163
Somervell County Water District	Municipal	262	215	195	207	220	234
Sonterra MUD	Municipal	688	-627	-2,197	-3,904	-5,820	-7,977
Southwest Milam WSC	Municipal	-281	-444	-352	-370	-473	-598
Stamford	Municipal	470	527	589	652	728	818
Steamboat Mountain WSC	Municipal	-653	-893	-1,267	-1,665	-1,947	-2,258
Stephenville	Municipal	1,671	1,295	829	200	-497	-1,260
Sweetwater	Municipal	-145	-119	-91	-62	-32	-1
Taylor	Municipal	-540	-1,838	-3,304	-4,577	-6,033	-8,080
Temple	Municipal	-9,219	-12,564	-15,188	-16,979	-18,988	-21,240
Texas A&M University	Municipal	2,879	3,226	3,226	3,226	3,226	3,226
Texas State Technical College	Municipal	778	837	897	956	1,017	1,017
Venus	Municipal	-31	-7	76	135	186	210
Waco	Municipal	-5,925	-10,128	-13,987	-18,040	-22,634	-26,900
Wellborn SUD	Municipal	1,181	700	-482	-1,944	-3,587	-5,433
Wickson Creek SUD	Municipal	996	598	-145	-1,005	-1,933	-2,874
Williamson County MUD 11	Municipal	-106	-505	-974	-1,487	-2,064	-2,714
Williamson County WSID 3	Municipal	187	-84	-414	-779	-1,191	-1,658
Woodway	Municipal	1,784	1,990	2,241	2,482	2,734	2,734

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APPENDIX P

WATER MANAGEMENT STRATEGIES ENVIRONMENTAL IMPACTS MATRIX

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LEGEND					
Score	**Impact**	**Environmental Water Needs**	**Wildlife Habitat (total acres impacted)**	**Threatened and Endangered Species**	**Cultural Resources (Reservoir Footprint Acres)**
1	High	None	>10,000	>100	>1,000
2	Medium	Reuse, Surface Water	1,000 - 10,000	50 - 100	1 - 1,000
3	Low	Conservation, Groundwater	0 - 1,000	0-50	0

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Water Management Strategies Environmental Impacts Matrix

Vol II	WMS	Sponsor	County	Basin	Pipeline Acres	Intake Pump Station Acres	Pump Station Acres	Water Treatment Plant Acres	Well Acres	WMS Type	Total Impacted Area (acres)	Reservoir Footprint (acres)	Wetlands Impacted (acres)	Agricultural Resources Impacted (acres)	Threatened and Endangered Species Present	Scoring						
																Environmental Water Needs	Wildlife Habitat	Wetlands	Threatened and Endangered Species	Cultural Resource	Bays and Estuaries	Agricultural Resources
2.1	Municipal Water Conservation	Multiple	Multiple	Multiple						Cons.					Var	3	3	3	1	3	3	3
2.2	Irrigation Water Conservation	Multiple	Multiple	Multiple						Cons.						3	3	3	3	3	3	3
2.3	Industrial Water Conservation	Multiple	Multiple	Multiple						Cons.						3	3	3	3	3	3	3
3.2	General Evaluation of Direct Reuse Potential For Multiple WUGs	Multiple	Multiple	Multiple	Var	Var	Var	Var		Reuse	Var	Var	Var	Var	Var	2	3	3	2	3	3	3
3.3	Bell County WCID No.1 – Reuse Projects	Bell County WCID No.1	Bell	Multiple	50		10	5		Reuse	65			65	Var	2	3	3	2	3	3	3
3.4	City of Bryan Lake Bryan Reuse	Bryan	Brazos	Brazos	33	5	5	5		Reuse	48		5	48	Var	2	3	3	2	3	3	3
3.5	City of Bryan – Miramont Reuse	Bryan	Brazos	Brazos	21		5	5		Reuse	31			31	Var	2	3	3	2	3	3	3
3.6	Cedar Park Reuse	Cedar Park	Williamson	Brazos	17		5			Reuse	22			22	Var	2	3	3	2	3	3	3
3.7	City of Cleburne Reuse	Cleburne	Johnson	Brazos	27		5			Reuse	32			32	Var	2	3	3	2	3	3	3
3.8	City of College Station Non-Potable Reuse	College Station	Brazos	Brazos	13		5	5		Reuse	23			23	Var	2	3	3	2	3	3	3
3.9	City of Georgetown Reuse	Georgetown	Williamson	Brazos	15		5			Reuse	20			20	Var	2	2	3	2	3	3	3
3.10	Waco WMARSS Reuse Projects	Multiple	McLennan	Brazos	134		30			Reuse	164			164	Var	2	3	3	2	3	3	3
4.1	Brushy Creek Reservoir	Marlin	Falls	Brazos	73		5			Reservoir	78	697	697	78	14	3	3	3	3	3	3	3
4.2	Cedar Ridge Reservoir	Abilene	Shackelford	Brazos	176	5				Reservoir	181		5	93	8	2	1	3	3	2	3	2
4.3	Coryell County Off Channel Reservoir	Multi County WSC	Coryell	Brazos	1	5				Reservoir	6	445	450	6	10	3	3	3	3	3	3	3
4.4	City of Groesbeck Off-Channel Reservoir	Groesbeck	Limestone	Brazos	4	5	5			Reservoir	14	146	151	14	14	3	3	3	3	3	3	3
4.5	NCTMWA Lake Creek Reservoir	North Central Texas MWA	Knox & Baylor	Brazos	67	5	10	5		Reservoir	87	2,866	2,871	87	11	2	1	3	3	3	3	2
4.6	New Throckmorton Reservoir	Throckmorton	Throckmorton	Brazos	30	5		5		Reservoir	40	1,161	1,166	40	9	2	1	3	3	1	3	2
4.7	Turkey Peak Dam – Lake Palo Pinto Enlargement	Palo Pinto County MWD No. 1	Palo Pinto	Brazos						Reservoir		2,176	2,176		13	3	3	3	3	3	3	3
5.1	City of Bryan Groundwater Strategies	Bryan	Brazos	Brazos	64		5	5	12	GW	86			86	19	3	3	3	3	3	3	3
5.2	College Station Groundwater Strategies	College Station	Brazos	Brazos	13		5	5	8	GW	31			31	19	3	3	3	3	3	3	3
5.3	Williamson County Groundwater Strategies	BRA	Multiple	Multiple	1,973		5	5	86	GW	2,069			2,069	23	3	3	3	3	3	3	3
5.4	Georgetown Grondwater Strategies	Georgetown	Multiple	Multiple	632		30		26	GW	688			688	34	3	3	3	3	3	3	3
5.5	West Texas Partnership Water to Abilene (Region F)	Abilene	Multiple	Multiple	1,252		10	5	24	Sys Op.	1,291			1,291	Var	3	3	3	3	3	3	2
7.1	Lake Granger Augmentation	BRA	Williamson	Brazos	22		5	5	60	Res. Aug.	92			92	Var	3	3	3	3	3	3	3
7.2	Oak Creek Reservoir Conjunctive Use	Sweetwater	Coke and Nolan	Colorado & Brazos						Res. Aug.						3	3	3	3	3	3	3
8.1	City of Bryan ASR	Bryan	Brazos	Brazos	15		5	5	20	ASR	45			45	19	3	3	3	3	3	3	3
8.2	City of College Station ASR	College Station	Brazos	Brazos	43		5	5	40	ASR	93			93	19	3	3	3	3	3	3	3
8.3	Lake Georgetown ASR	Georgetown	Williamson	Brazos	73			10	50	ASR	133			133	18	3	3	3	3	3	3	3
8.4	Lake Granger ASR	BRA	Williamson	Brazos	8			5	44	ASR	57			57	18	3	3	3	3	3	3	3
8.5	Johnson County SUD and Acton MUD ASR	Johnson County SUD & Acton MUD	Johnson & Hood	Brazos			5		26	ASR	31			31	11	3	3	3	3	3	3	3
8.6	Trinity ASR in McLennan County	Waco	McLennan	Brazos					58	ASR	58			58	13	3	3	3	3	3	3	3
9.1	Bosque County Regional Project	Multiple	Bosque	Multiple	170		10	5		Regional	185			185	13	3	3	3	3	3	3	3
9.2	Managed Aquifer Recharge Project at Haskell and Knox Counties	Rolling Plains GCD (County-Other, Haskell)	Haskell and Knox	Multiple					2,300	ASR	2,300			2,300	13	3	3	3	3	3	3	3
9.3	Brushy Creek Regional Utility Authority System	Multiple	Williamson & Travis	Colorado & Brazos		10		10		Regional	20		10	20	21	3	3	3	3	3	3	3

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Vol II	WMS	Sponsor	County	Basin	Pipeline Acres	Intake Pump Station Acres	Pump Station Acres	Water Treatment Plant Acres	Well Acres	WMS Type	Total Impacted Area (acres)	Reservoir Footprint (acres)	Wetlands Impacted (acres)	Agricultural Resources Impacted (acres)	Threatened and Endangered Species Present	Scoring						
																Environmental Water Needs	Wildlife Habitat	Wetlands	Threatened and Endangered Species	Cultural Resource	Bays and Estuaries	Agricultural Resources
9.4	East Williamson County Water Supply Project	Lone Star Regional Water Authority	Multiple	Multiple	18,274		10			Regional	18,284			18,284	Var	3	3	3	3	3	3	1
9.4	East Williamson County Water Supply Project	Lone Star Regional Water Authority	Multiple	Multiple	18,274		10			Regional	18,284			18,284	Var	3	3	3	3	3	3	1
9.5	Lake Belton to Lake Stillhouse Hollow Pipeline	BRA	Bell and Coryell	Brazos	41	5	5			Water Supply	51		5	51	15	3	3	3	3	3	3	3
9.6	Lake Whitney Water Supply Project (Cleburne)	Cleburne	Johnson & Hill	Brazos	116	5	20	10		Water Supply	151		5	151	13	3	3	3	3	3	3	3
9.7	Somervell County Water Supply Project	Somervell County Water District	Somervell	Brazos	21,394		5	5		Water Supply	21,404			21,404	10	3	3	3	3	3	3	1
10.1	Lake Aquilla Storage Reallocation	BRA	Hill	Brazos						Realloc.		3,084	3,084		12	3	3	3	3	3	3	3
10.2	Lake Granger Storage Reallocation	BRA	Willamson	Brazos						Realloc.		4,159	4,159		18	3	3	3	3	3	3	3
10.3	Lake Whitney Reallocation	BRA	Hill & Bosque	Brazos						Realloc.		23,220	23,220		13	2	2	3	3	3	3	3
11	Brush Control	Multiple	Multiple	Multiple						Brush Control				48,792	9	3	2	3	2	3	3	3
12	Miscellaneous Strategies	Multiple	Multiple	Multiple						Misc.				Var	Var	3	3	3	2	2	3	3

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APPENDIX Q ENTITIES LACKING RESPONSES TO BGRWPG ENGAGEMENT

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Appendix Q
Entities Lacking Responses to
BGRWPG Engagement

WUG
Bethesda WSC
Brandon Irene WSC
Brenham
Burleson
Chatt WSC
Copperas Cove
Crawford
Double Diamond Utilities
Florence
Glen Rose
Granger
Groesbeck
Highland Park WSC
Hubbard
Hutto
Itasca
Lee County WSC
Mart
Mexia
Moffat WSC
Paloma Lake MUD 1
Paloma Lake MUD 2
Parker WSC
Post Oak SUD
Prairie Hill WSC
Roscoe
Salado WSC
Salem Elm Ridge WSC
Spring Valley WSC
Wickson Creek SUD
Williamson County MUD 11
Williamson County WSID 3
Williamson Travis Counties MUD 1
Woodrow Osceola WSC

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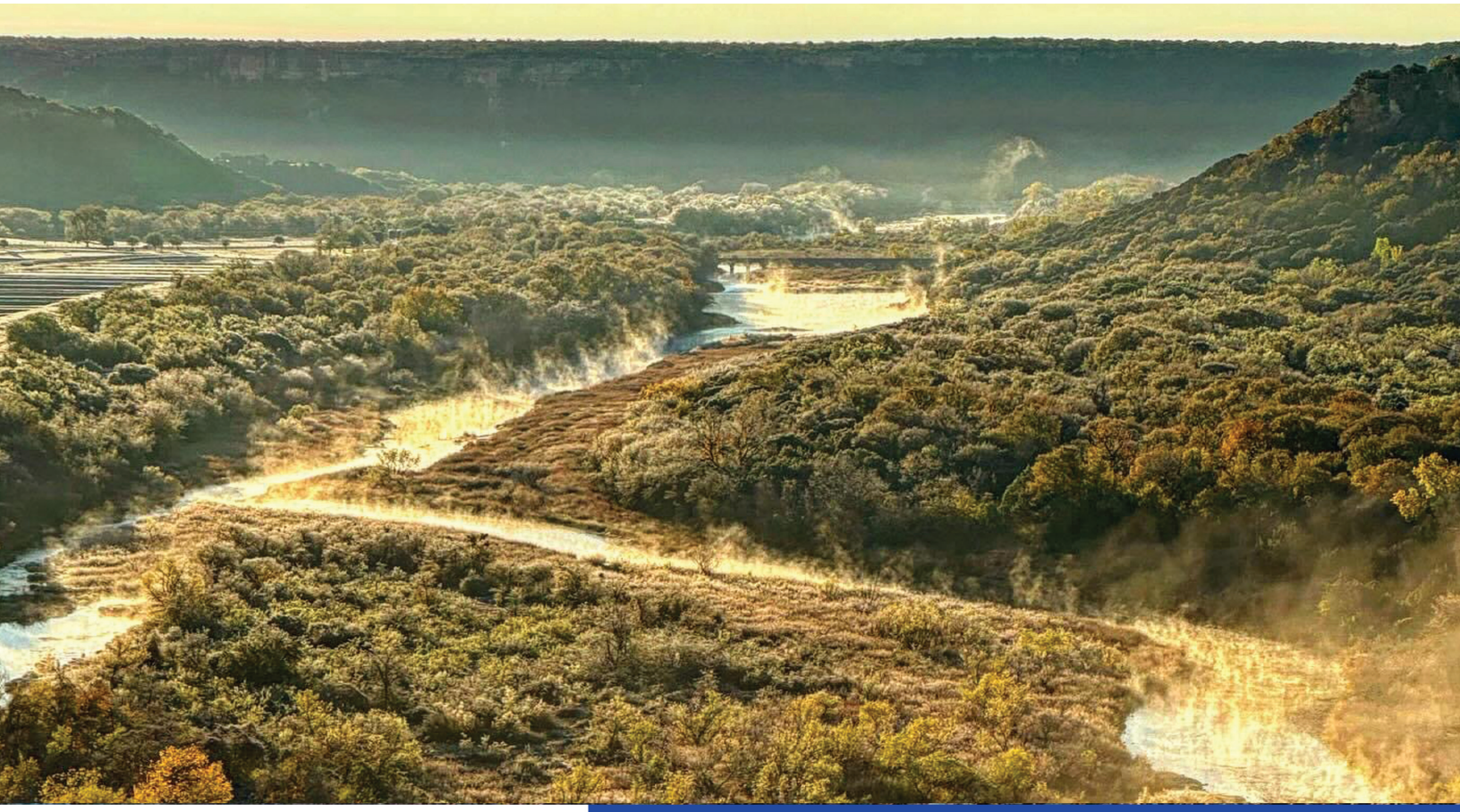

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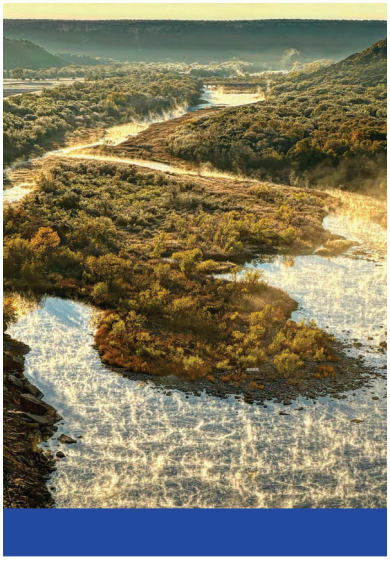

Prepared for

The Brazos G Regional Water Planning Group

2026 BRAZOS G INITIALLY PREPARED PLAN APPENDICES

March 3, 2025

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