Appendix A
Historical Supplemental Data

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Appendix A: Description of Tables

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 2010. Data for the period from 1900 to 1990 were obtained from the Texas Alamnac, 1994-1995. Data for 2000 and 2010 were obtained from the U.S. Census. 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 and 1984 through 2010. 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 and 1984 through 2010. 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 and 1984 through 2010. 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 the years 1980 and 1984 through 2010. 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 2010 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											Census
County	**1900**	**1910**	**1920**	**1930**	**1940**	**1950**	**1960**	**1970**	**1980**	**1990**	**2000**	**2010**
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Kent	899	2,655	3,335	3,851	3,413	2,249	1,727	1,434	1,145	1,010	859	808
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
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
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
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
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
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
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
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
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
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
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

Table A-1 Concluded BGRWPA Historical Population

	Historical Population											Census
County	**1900**	**1910**	**1920**	**1930**	**1940**	**1950**	**1960**	**1970**	**1980**	**1990**	**2000**	**2010**
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
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
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
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
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
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
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
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**
% Change		17.9%	6.0%	2.6%	-4.4%	-1.5%	4.2%	4.7%	26.3%	19.5%	20.1%	21.8%
Annual Growth Rate		1.70%	0.60%	0.30%	-0.40%	-0.10%	0.40%	0.50%	2.40%	1.80%	1.80%	1.99%
State Total	3,048,710	3,896,542	4,663,228	5,824,715	6,414,824	7,711,194	9,579,677	11,196,730	14,229,191	16,986,510	20,851,820	24,915,388
% Change		27.8%	19.7%	24.9%	10.1%	20.2%	24.2%	16.9%	27.1%	19.4%	22.8%	19.5%
Annual Growth Rate		2.50%	1.80%	2.20%	1.00%	1.90%	2.20%	1.60%	2.40%	1.80%	2.10%	

Table A-2 BGRWPA Historical Population by Subregion

Sub-Region/	Historical Population[1]											
County	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010
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
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
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
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
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
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
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
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
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
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
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
Kent	899	2,655	3,335	3,851	3,413	2,249	1,727	1,434	1,145	1,010	859	808
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
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
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
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
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
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
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
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
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
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
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
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**

Table A-2 Concluded BGRWPA Historical Population by Subregion

Sub-Region/	Historical Population[1]											
County	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010
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
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
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
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
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
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**
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
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
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
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
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
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
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
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
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
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**
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

Table A-3 Historical Use By Source

	Year							
Water Source	**1980**	**1990**	**2000**	**2001**	**2002**	**2003**	**2004**	**2010**
Groundwater	270,270	280,840	356,557	319,073	345,092	342,431	384,018	436,860
Surface Water	274,999	300,680	406,990	403,160	368,206	390,282	356,539	416,309
Region Total	**545,269**	**581,520**	**763,547**	**722,233**	**713,298**	**732,713**	**740,557**	**853,169**

Table A-4 Historical Groundwater Pumping by Aquifer

	Year						
Aquifer	1980	1990	2000	2001	2002	2003	2010
Brazos Alluvium	29,426	36,528	23,070	16,592	18,368	30,342	129,064
Carrizo-Wilcox	32,111	55,759	96,156	100,789	116,433	103,694	40,055
Dockum	2,067	2,071	4,884	2,416	2,448	2,712	8,440
Edwards-BFZ	9,428	12,314	34,372	16,004	16,363	17,106	18,744
Edwards-TP	1,607	1,486	303	283	279	446	2,545
Gulf Coast	3,326	4,870	7,251	7,328	7,844	7,150	4,162
Queen City	1,556	1,707	2,132	2,266	2,372	2,253	2,813
Seymour	94,996	60,795	101,710	66,743	75,543	83,037	62,601
Sparta	1,042	1,423	1,595	1,734	3,513	3,538	4,445
Trinity	80,601	92,655	90,180	91,635	91,970	86,062	61,816
Woodbine	1,635	1,024	1,363	1,316	1,360	1,529	912
Yegua-Jackson							3,600
Blaine							406
Ellenburger-San Saba							28
Marble Falls							20
Ogallala							7
Other-Undiff	13,472	9,757	6,999	9,638	10,226	10,431	84,948
Region Total	**271,267**	**280,389**	**370,015**	**316,744**	**346,719**	**348,300**	**424,606**

Table A-5 BGRWPA Reservoirs (Permit Capacity Greater than 2,500 acft)

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (Acft/yr)					Owner	Water Right Holders (Greater Than 1,000 acft)
				Municipal[4]	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	Turkey 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
Brusy Creek[3]	Brazos River	Falls	6,560	0	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
Squaw Creek Reservoir[2]	Squaw Creek	Somervell	151,500	0	23,180	0	0	23,180	TXU Electric Co.	TXU Electric Co.
Daniel	Gonzales Creek	Stephens	11,400	2,100	0	0	0	2,100	City of Breckenridge	City of Breckenridge
Dansby Power Plant[2]	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
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
Granger	San Gabriel River	Williamson	65,500	19,840	0	0	0	19,840	U.S. Army Corps of Engineers	Brazos River 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 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

Table A-5 BGRWPA Reservoirs (Permit Capacity Greater than 2,500 acft)

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (Acft/yr)					Owner	Water Right Holders (Greater Than 1,000 acft)
				Municipal[4]	Industrial	Irrigation	Other	Total		
New Marlin[3]	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 River Authority
Robinson Off-Channel Reservoirs	Brazos River	McLennan	8,037	13,100	0	0	0	13,100	City of Robinson	City of Robinson
E-Area End Lake	Yegua Creek	Milam	7,173	0		0	0	0	Aluminum Co. of America	Aluminum Co. of America
Somerville	Yegua Creek	Washington	160,110	48,000	0	0	0	48,000	U.S. Army Corps of Engineers	Brazos River Authority
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
Truscott Brine[5]	Bluff Creek	Knox	107,000	0	0	0	0	0	Red River Authority of Texas	
Twin Oak[2]	Duck Creek	Robertson	30,319		13,200			13,200	TXU Electric Co.	TXU Electric Co.
Lake Brazos	Brazos River	McLennan	3,537	5,600	0	0	0	5,600	City of Waco	City of Waco
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

Table A-6 Permitted Surface Water Diversions

County	Permitted Diversions					
	Municipal	Industrial	Irrigation	Mining	Other	Total
Bell	215,829	2	5,171	138	5	221,145
Bosque	3,940	5	9,099	0	0	13,044
Brazos	27,163	55,708	12,597	0	0	95,468
Burleson	0	420	8,040	0	1,000	9,460
Callahan	1,550	0	1,042	0	0	2,592
Comanche	19,858	11	12,258	0	0	32,127
Coryell	0	0	1,994	0	0	1,994
Eastland	8,871	556	2,315	1,607	0	13,349
Erath	80	0	4,763	30	25	4,898
Falls	6,339	2,000	6,537	0	0	14,876
Fisher	0	26	724	0	0	750
Grimes	0	16,050	2,193	200	0	18,443
Hamilton	614	3	3,331	0	0	3,947
Haskell	10,000	0	1,316	0	0	11,316
Hill	57,232	25,000	1,493	0	0	83,725
Hood	64,747	0	3,901	0	0	68,648
Johnson	6,980	300	903	125	0	8,308
Jones	59,532	4,007	7,420	383	0	71,342
Kent	0	0	554	5,900	0	6,454
Knox	34	0	2,233	235	0	2,502
Lampasas	4,642	48	2,370	0	0	7,060
Lee	0	0	182	0	0	182
Limestone	5,547	67	14	1,000	0	6,628
McLennan	98,224	53,876	7,350	0	0	159,450
Milam	2,792	33,512	7,884	0	0	44,188
Nolan	5,740	45	636	0	0	6,421
Palo Pinto	243,870	6,012	3,661	41	0	253,584
Robertson	65,074	13,200	9,730	685	480	89,169
Shackelford	774	50	138	0	0	962
Somervell	5,000	23,180	764	0	0	28,944
Stephens	58,100	97	1,078	218	0	59,493
Stonewall	0	0	8	235	0	243
Taylor	5,785	3,509	1,106	0	50	10,450
Throckmorton	660	0	9	0	0	669
Washington	97,500	50,020	50,002	500	0	198,022
Williamson	88,760	30,003	6,369	858	0	125,990
Young	11,250	8,509	1,304	600	0	21,663
Region Total	1,176,487	326,216	180,488	12,755	1,560	1,697,506

Table A-7 Historical Use By County

County	Year								
	1980	2000	2001	2002	2003	2004	2005	2006	2010
Bell	31,507	49,886	45,011	49,908	49,673	49,323	51,341	48,831	57523
Bosque	4,893	7,808	5,973	5,985	6,654	7,726	9,966	8,535	10210
Brazos	29,300	39,097	42,624	38,086	42,613	44,050	45,216	48,199	71551
Burleson	9,508	22,165	14,354	15,468	22,889	30,349	27,592	28,657	32085
Callahan	3,608	3,378	3,974	4,154	3,193	3,118	3,502	2,431	3066
Comanche	31,034	42,113	51,257	37,781	30,838	32,873	34,721	36,803	30602
Coryell	11,898	18,044	12,854	18,060	15,887	16,230	17,601	24,033	16185
Eastland	19,781	20,512	18,802	20,716	12,740	12,333	13,109	13,770	9182
Erath	21,190	24,991	20,508	23,128	18,963	18,619	19,723	22,308	18486
Falls	10,103	7,585	7,127	6,950	11,355	9,046	10,290	8,998	12986
Fisher	5,075	4,358	4,585	4,836	4,252	4,455	5,284	6,577	6231
Grimes	3,534	10,195	9,837	8,538	8,908	9,744	12,196	15,386	20362
Hamilton	4,090	3,818	3,831	4,178	3,849	3,614	3,831	3,778	4059
Haskell	43,140	52,851	32,003	38,397	37,356	38,375	40,229	41,503	37570
Hill	5,648	6,553	7,256	6,808	7,171	7,003	9,232	7,482	10095
Hood	8,513	12,864	12,414	12,545	16,655	11,857	16,338	16,100	19315
Johnson	12,672	26,025	24,016	21,990	22,873	20,678	28,851	32,227	28517
Jones	14,803	10,540	8,109	8,239	6,269	6,513	6,976	6,140	5587
Kent	1,607	1,649	1,627	1,613	2,711	2,855	3,005	2,178	1344
Knox	51,309	44,926	29,854	32,155	42,002	42,012	42,467	42,569	30338
Lampasas	3,983	5,557	5,261	5,633	6,432	5,883	3,720	4,124	3853
Lee	3,957	5,876	5,830	5,786	5,098	5,797	7,177	4,873	7429
Limestone	4,800	27,494	20,346	23,257	25,938	30,364	28,039	26,788	32474
McLennan	70,528	74,850	50,788	58,390	59,901	62,286	72,637	58,052	56616
Milam	19,935	59,275	45,067	61,048	67,184	51,163	56,695	55,023	42897
Nolan	9,719	10,170	8,381	8,861	8,093	7,782	10,310	9,040	10847
Palo Pinto	8,749	8,302	9,174	8,853	10,823	10,270	11,358	11,967	13035
Robertson	24,856	25,394	32,451	35,918	36,984	37,545	43,323	41,184	122268
Shackelford	1,963	2,413	2,192	2,223	2,966	2,963	3,875	3,077	1585
Somervell	1,578	20,101	60,149	34,483	43,728	47,062	40,989	48,931	24879
Stephens	9,094	10,231	9,407	9,371	9,110	9,702	9,555	2,061	3230
Stonewall	1,461	1,129	2,617	3,714	939	927	919	1,097	910
Taylor	32,040	43,122	29,461	29,003	34,066	37,123	31,000	28,625	23999
Throckmorton	838	1,145	1,086	1,141	1,070	1,013	999	936	805
Washington	5,444	8,815	8,335	8,424	7,932	7,533	8,237	8,276	7505
Williamson	16,471	44,125	50,065	55,240	53,164	59,985	53,353	58,363	71868
Young	6,640	6,190	7,146	6,367	5,461	4,953	2,632	4,573	3676
Region Total	545,269	763,547	703,772	717,247	745,740	753,124	786,288	783,495	853,170

Table A-8 Historical Water Use by Type

	Year								
Use Type	1980	2000	2001	2002	2003	2004	2005	2006	2010
Municipal	215,744	319,141	285,623	307,003	310,405	319,072	334,319	328,057	326,414
Manufacturing	21,124	56,993	43,931	57,545	62,966	49,548	52,239	54,828	46,131
Power	28,686	86,963	108,005	78,951	87,733	93,793	90,640	85,366	76,545
Mining	11,413	15,008	15,049	15,378	16,573	16,482	23,878	16,683	53,383
Irrigation	229,387	232,991	200,246	208,475	218,287	224,621	233,607	244,694	298,754
Livestock	38,915	52,451	50,918	49,895	49,776	49,608	51,605	53,867	51,943
Region Total	**545,269**	**763,547**	**703,772**	**717,247**	**745,740**	**753,124**	**786,288**	**783,495**	**853,170**

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

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Bell	G	3,568	0	0	1,560	1,155	510	6,793	11.8%
	S	46,205	521	0	1,300	1,514	1,190	50,730	88.2%
	Total	49,773	521	0	2,860	2,669	1,700	57,523	100%
Bosque	G	2,735	1	0	458	1,166	407	4,767	47%
	S	433	4	0	2,836	1,221	950	5,444	53%
	Total	3,168	5	0	3,294	2,387	1,357	10,211	100%
Brazos	G	32,667	1,666	123	31,834	82	402	66,774	93%
	S	0	0	112	3,707	211	747	4,777	7%
	Total	32,667	1,666	235	35,541	293	1,149	71,551	100%
Burleson	G	2,974	117	0	18,749	17	563	22,420	70%
	S	0	0	0	8,350	1	1,314	9,665	30%
	Total	2,974	117	0	27,099	18	1,877	32,085	100%
Callahan	G	388	0	0	649	95	278	1,410	46%
	S	744	0	0	0	77	835	1,656	54%
	Total	1,132	0	0	649	172	1,113	3,066	100%
Comanche	G	686	4	0	10,278	475	840	12,283	40%
	S	748	8	0	14,923	120	2,521	18,320	60%
	Total	1,434	12	0	25,201	595	3,361	30,603	100%
Coryell	G	2,056	0	0	144	195	180	2,575	16%
	S	12,111	3	0	271	202	1,023	13,610	84%
	Total	14,167	3	0	415	397	1,203	16,185	100%
Eastland	G	530	0	0	4,541	270	76	5,417	59%
	S	2,092	37	0	15	182	1,439	3,765	41%
	Total	2,622	37	0	4,556	452	1,515	9,182	100%

Table A-9 Historical Water Use by County, Source and Type (Continued)

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Erath	G	4,188	60	0	4,867	1,007	1,842	11,964	65%
	S	447	1	0	571	1,205	4,298	6,522	35%
	Total	4,635	61	0	5,438	2,212	6,140	18,486	100%
Falls	G	1,927	0	0	6,347	98	326	8,698	67%
	S	1,839	0	0	500	103	1,846	4,288	33%
	Total	3,766	0	0	6,847	201	2,172	12,986	100%
Fisher	G	546	104	0	4,393	88	337	5,468	88%
	S	235	1	0	0	21	506	763	12%
	Total	781	105	0	4,393	109	843	6,231	100%
Grimes	G	4,162	216	1	75	17	674	5,145	25%
	S	0	0	13,446	200	0	1,571	15,217	75%
	Total	4,162	216	13,447	275	17	2,245	20,362	100%
Hamilton	G	1,057	3	0	243	256	211	1,770	44%
	S	678	0	0	418	0	1,193	2,289	56%
	Total	1,735	3	0	661	256	1,404	4,059	100%
Haskell	G	192	0	0	35,865	27	174	36,258	97%
	S	808	0	0	93	6	406	1,313	3%
	Total	1,000	0	0	35,958	33	580	37,571	100%
Hill	G	3,422	1	0	181	593	91	4,288	42%
	S	2,757	0	0	569	772	1,709	5,807	58%
	Total	6,179	1	0	750	1,365	1,800	10,095	100%
Hood	G	6,708	6	6	675	1,216	240	8,851	46%
	S	664	0	485	7,500	1,522	293	10,464	54%
	Total	7,372	6	491	8,175	2,738	533	19,315	100%

Table A-9 Historical Water Use by County, Source and Type (Continued)

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Johnson	G	6,139	698	0	130	1,762	428	9,157	32%
	S	14,129	849	644	269	2,468	999	19,358	68%
	Total	20,268	1,547	644	399	4,230	1,427	28,515	100%
Jones	G	1,392	0	0	926	101	221	2,640	47%
	S	1,977	0	0	500	61	409	2,947	53%
	Total	3,369	0	0	1,426	162	630	5,587	100%
Kent	G	132	0	0	888	16	263	1,299	97%
	S	0	0	0	12	4	29	45	3%
	Total	132	0	0	900	20	292	1,344	100%
Knox	G	189	0	0	29,131	10	91	29,421	97%
	S	532	0	0	15	4	366	917	3%
	Total	721	0	0	29,146	14	457	30,338	100%
Lampasas	G	107	0	0	76	79	296	558	14%
	S	2,014	159	0	474	97	551	3,295	86%
	Total	2,121	159	0	550	176	847	3,853	100%
Lee	G	2,328	6	0	1,575	2,102	425	6,436	87%
	S	0	0	0	0	0	993	993	13%
	Total	2,328	6	0	1,575	2,102	1,418	7,429	100%
Limestone	G	2,448	215	711	0	3,457	16	6,847	21%
	S	957	8	20,988	0	2,119	1,554	25,626	79%
	Total	3,405	223	21,699	0	5,576	1,570	32,473	100%
McLennan	G	14,608	508	98	834	735	262	17,045	30%
	S	31,494	1,699	230	3,287	1,373	1,487	39,570	70%
	Total	46,102	2,207	328	4,121	2,108	1,749	56,615	100%

Table A-9 Historical Water Use by County, Source and Type (Continued)

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Milam	G	3,698	12,653	0	1,920	15	592	18,878	44%
	S	1,450	19,613	0	1,574	1	1,381	24,019	56%
	Total	5,148	32,266	0	3,494	16	1,973	42,897	100%
Nolan	G	1,603	314	0	8,055	59	203	10,234	94%
	S	256	139	0	67	16	135	613	6%
	Total	1,859	453	0	8,122	75	338	10,847	100%
Palo Pinto	G	265	0	0	1,500	343	89	2,197	17%
	S	4,347	8	460	3,800	293	1,930	10,838	83%
	Total	4,612	8	460	5,300	636	2,019	13,035	100%
Robertson	G	2,375	51	342	76,833	15,185	759	95,545	78%
	S	0	4,725	17,334	2,780	114	1,771	26,724	22%
	Total	2,375	4,776	17,676	79,613	15,299	2,530	122,269	100%
Shackelford	G	26	0	0	69	174	7	276	17%
	S	600	9	0	6	36	658	1,309	83%
	Total	626	9	0	75	210	665	1,585	100%
Somervell	G	1,202	2	21	130	691	54	2,100	8%
	S	339	0	21,283	95	935	127	22,779	92%
	Total	1,541	2	21,304	225	1,626	181	24,879	100%
Stephens	G	115	0	0	18	1,001	59	1,193	37%
	S	1,143	7	0	115	245	527	2,037	63%
	Total	1,258	7	0	133	1,246	586	3,230	100%

Table A-9 Historical Water Use by County, Source and Type (Concluded)

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Stonewall	G	68	0	0	94	120	290	572	63%
	S	232	0	0	6	28	72	338	37%
	Total	300	0	0	100	148	362	910	100%
Taylor	G	1,381	3	0	750	475	151	2,760	12%
	S	19,629	579	0	12	166	853	21,239	88%
	Total	21,010	582	0	762	641	1,004	23,999	100%
Throckmorton	G	20	0	0	0	47	0	67	8%
	S	192	0	0	0	10	536	738	92%
	Total	212	0	0	0	57	536	805	100%
Washington	G	2,071	293	0	300	10	152	2,826	38%
	S	3,068	214	0	0	28	1,369	4,679	62%
	Total	5,139	507	0	300	38	1,521	7,505	100%
Williamson	G	17,547	116	0	372	2,767	653	21,455	27%
	S	52,689	491	0	29	2,234	1,524	56,967	73%
	Total	70,236	607	0	401	5,001	2,177	78,422	100%
Young	G	504	0	0	0	81	161	746	16%
	S	2,875	25	261	0	9	644	3,814	84%
	Total	3,379	25	261	0	90	805	4,560	100%

Appendix B
Aquifer Descriptions and Groundwater Availability Analysis

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Blaine Aquifer

Location

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

Geohydrology

The Blaine Formation of the Pease River Group of Permian Age consists of beds of gypsum, anhydrite, halite, dolomite, sandstone, and shale. Not all beds are found throughout the formation, however the individual beds of gypsum and dolomite are laterally continuous. 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 the water. 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.

Development and Use

While the upper part of the Blaine provides irrigation supplies from solutioning of 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 data base 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 2012 pumpage from Blaine Aquifer to total 478 acft/yr, of which 11 acft/yr is for municipal use.

Availability

The Blaine Aquifer in Brazos G is in GMA-6. In a letter dated December 2011, the TWDB referenced a report titled GAM Run 10-056 MAG, which presents the MAG for the Blaine Aquifer in GMA-6. The MAG determination utilized the Desired Future Conditions (DFC's provided by the GMA-6 representative) and version 1.01 groundwater model of the Seymour and Blaine aquifers. Using the approach outlined by the TWDB, the MAG is calculated for each county. The results are presented in the following table.

Blaine Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
FISHER	5,062	5,062	5,062	5,062	5,062	5,062
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	14,562	14,562	14,562	14,562	14,562	14,562

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.

Resource Considerations

Counties in groundwater districts include: Knox (Rolling Plains Groundwater Conservation District (GCD)), Fisher (Clear Fork GCD), and Nolan (Wes-Tex GCD).

References

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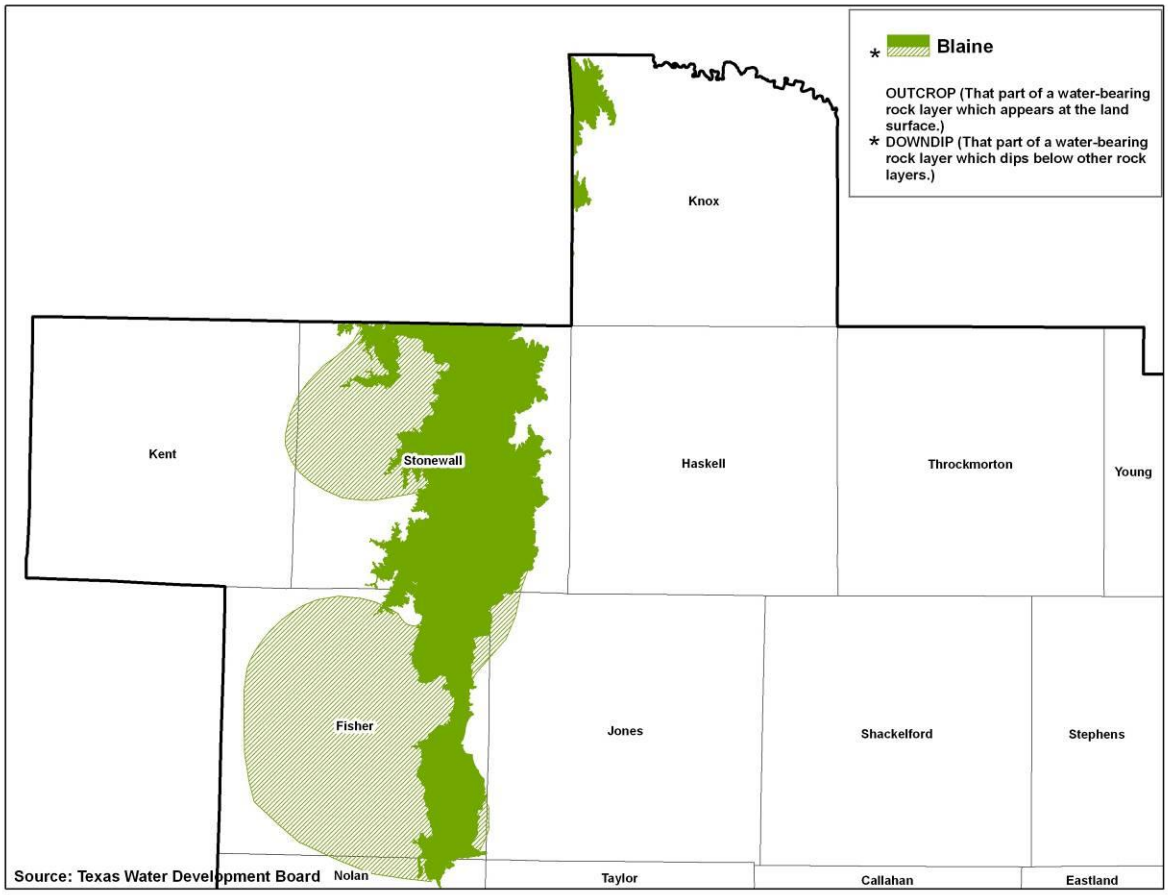

Figure B-1. Location of Blaine Aquifer in Brazos G

Brazos River Alluvium Aquifer

Location

The Brazos River Alluvium Aquifer is a minor aquifer and 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).

Geohydrology

The river alluvium forms a floodplain and a series of terraces. The floodplain is of primary significance as a source of groundwater locally, however, groundwater also may occur in the terrace deposits that are outside the floodplain. The alluvium consists of layers of clay, silt, sand and various mixtures. The coarsest and best water-bearing zones are in the lower part of the aquifer. Water in the floodplain alluvium usually exists under water table conditions, although leaky artesian conditions may occur locally where there are extensive lenses of clay. The maximum saturated thickness of the alluvium is about 85 feet. The primary source of recharge is precipitation on the floodplain. 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.

Development and Use

The year 2012 Brazos G groundwater use for the Brazos River Alluvium Aquifer was estimated to be 128,528 acft with approximately 99 percent for irrigation.

Availability

The Brazos River Alluvium Aquifer in Brazos G is in GMA-12. In a letter dated July 2012, the TWDB referenced a report titled STA Aquifer Assessment 10-20 MAG, which presents the MAG. The MAG was determination by utilization of analytical groundwater budget equations with allowances for Desired Future Conditions provided by the GMA-12 representative Using the approach outlined by the TWDB, the MAG is calculated for each county. The results are presented in the following table

Brazos River Alluvium Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
BOSQUE	830	830	830	830	830	830
BRAZOS	12,500	12,500	12,500	12,500	12,500	12,500
BURLESON	22,056	22,056	22,056	22,056	22,056	22,056
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	3,082	3,082	3,082	3,082	3,082	3,082
ROBERTSON	6,300	6,300	6,300	6,300	6,300	6,300
WASHINGTON	5,770	5,770	5,770	5,770	5,770	5,770
TOTAL	87,989	87,989	87,989	87,989	87,989	87,989

Well Yields

Yields from large supply wells are typically between 250 and 500 gallons per minute (gpm). 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.

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, water is sufficiently fresh to meet drinking water standards in some areas. Data show the aquifer generally having 500 to 3,000 mg/L dissolved solids content. 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.

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 include: Bosque (Middle Trinity GCD, Grimes (Bluebonnet GCD), Hill (Prairielands GCD), Robertson and Brazos (Brazos Valley GCD), McLennan (McLennan County GCD) and Milam and Burleson (Post Oak Savannah GCD).

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.

Ward, J.K., 2008, Managed available groundwater estimates for the Brazos River Alluvium Aquifer in Groundwater Management Area 8: TWDB letter dated Nov 7, 2008 with *GTA Aquifer Assessment 07-05mag* attachment.

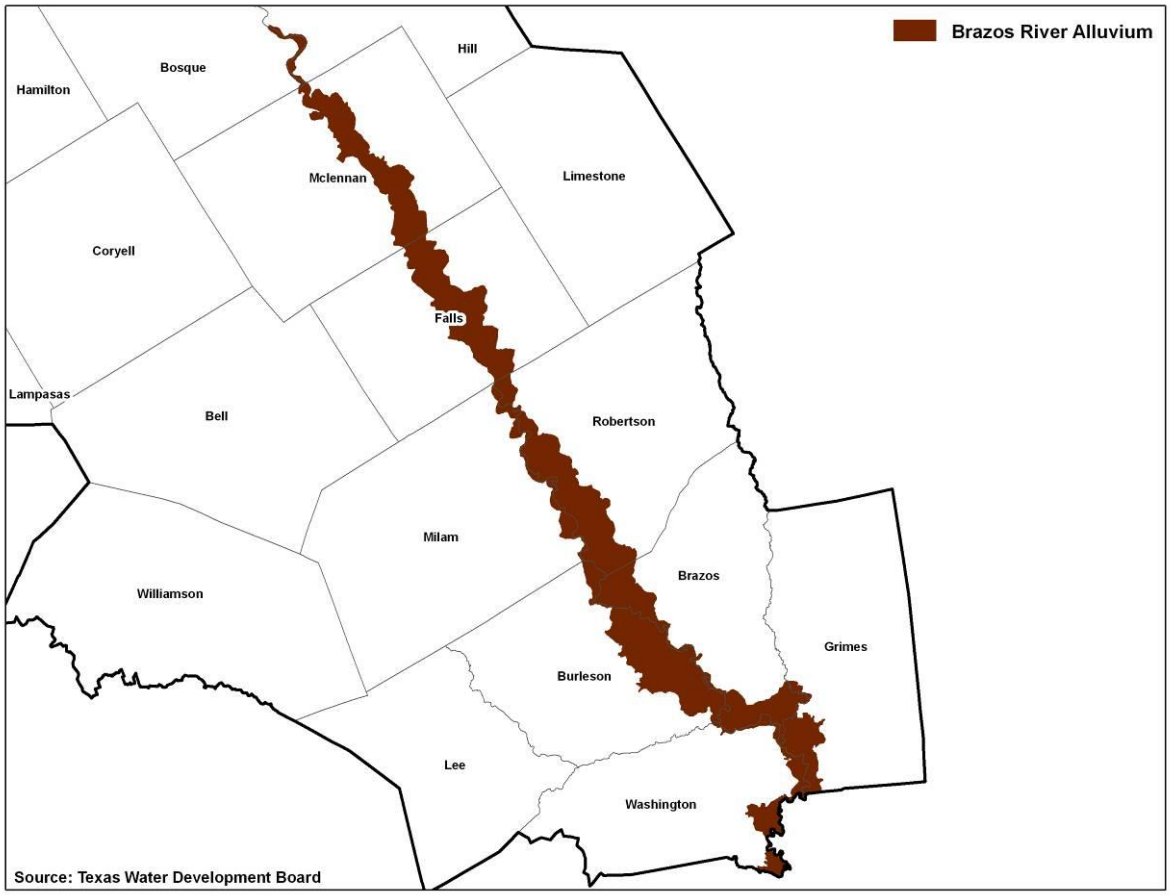

Figure B-2. Location of Brazos River Alluvium Aquifer in Brazos G

Carrizo-Wilcox Aquifer

Location

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

Geohydrology

The Carrizo Formation and the underlying Wilcox Group, which is divided into the Calvert Bluff, Simsboro, and Hooper units, form the Carrizo-Wilcox Aquifer. The Simsboro is a major water-bearing unit across the Brazos G 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 overwhelmingly the two most significant water-bearing zones in the Carrizo-Wilcox. The Calvert Bluff and Hooper are generally tapped only by shallow wells. 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 Carrizo-Wilcox zones 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. A substantial, but unknown, amount of recharge is rejected by evapotranspiration in the outcrop. 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 about a 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.

Development and Use

The year 2012 Brazos G groundwater use for the Brazos River Alluvium Aquifer was estimated to be 49,299 acft with approximately 55 percent for municipal purposes.Relatively large amounts of municipal water use is by Bryan, College Station, Texas A&M, Hearne and Rockdale. Most of the irrigation is in Milam and Robertson Counties.

Availability

The Carrizo-Wilcox in Brazos G is in GMA-12 and 14. In letter dated November 2011 to GMA-14, TWDB referenced a report titled GAM Run 10-052 MAG Version 2, which presents the MAG. In letter dated July 2012 to GMA-12, TWDB referenced a report titled GAM Run 10-044 MAG, which presents the MAG. The MAGs was determination by utilization of Version 2.01 of the central Sparta, Queen City, and Carrizo-Wilcox GAM and the specified Desired Future

Conditions provided by the GMA-12 and GMA-14 representatives. The results are presented in the following table.

Carrizo-Wilcox Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
BRAZOS	38,835	44,847	49,421	53,970	57,169	57,169
BURLESON	23,249	28,047	32,518	36,492	38,701	38,701
FALLS	867	875	884	895	895	895
GRIMES	11,791	11,791	11,791	11,791	11,791	11,791
LEE	24,023	23,402	24,624	26,827	27,380	27,380
LIMESTONE	12,294	12,424	12,604	12,906	12,906	12,906
MILAM	23,923	20,206	19,112	21,359	22,319	22,319
ROBERTSON	45,435	45,814	46,238	46,582	46,583	46,583
WILLIAMSON	7	7	7	7	7	7
TOTAL	180,424	187,413	197,199	210,829	217,751	217,751

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 3,000 gpm for the Simsboro, and from 100 to 300 gpm for the Hooper.

Water Quality

Water generally meets drinking water standards, but local exceptions occur. Excessive iron concentrations are the most common water quality problem, 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.

Resource Considerations

Few development problems have occurred to date, and water-level declines have been relatively small or restricted to pumping centers near larger developments. No important pollution problems are evident. One potential impact of a very significant drawdown is causing some wells to fail because they are either too shallow or the casing is too small to lower the pump as deep as needed.

There are four groundwater conservation districts that oversee the development and management of the Carrizo-Wilcox Aquifer within the Brazos G. The counties with a groundwater conservation district include: Lee (Lost Pines GCD), Robertson and Brazos (Brazos Valley GCD), Milam and Burleson (Post Oak Savannah GCD), and Grimes (Bluebonnet GCD).

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. and Others, 2002, Groundwater Availability Model for the Central Part of the Carrizo-Wilcox Aquifer in Texas: TWDB Contract Report.

Follett, C.R., 1970, Ground-water resources of Bastrop County, Texas: TWDB Report 109.

Follett, C.R., 1974, Ground-water resources of Brazos and Burleson Counties, Texas: TWDB Report 185.

Harden, R.W. & Associates, Inc., 1986, The most suitable areas for management of the Carrizo/Wilcox aquifer in Central Texas.

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Rettman, P.L., 1987, Ground-water resources of Limestone County, Texas: TWDB Report 299.

Thompson, G.L., 1966, Ground-water resources of Lee County, Texas: TWDB Report 20.

Thorkildsen, D., and Price, R.D., 1991, Ground-water resources of the Carrizo-Wilcox aquifer in the Central Texas region: TWDB Report 332.

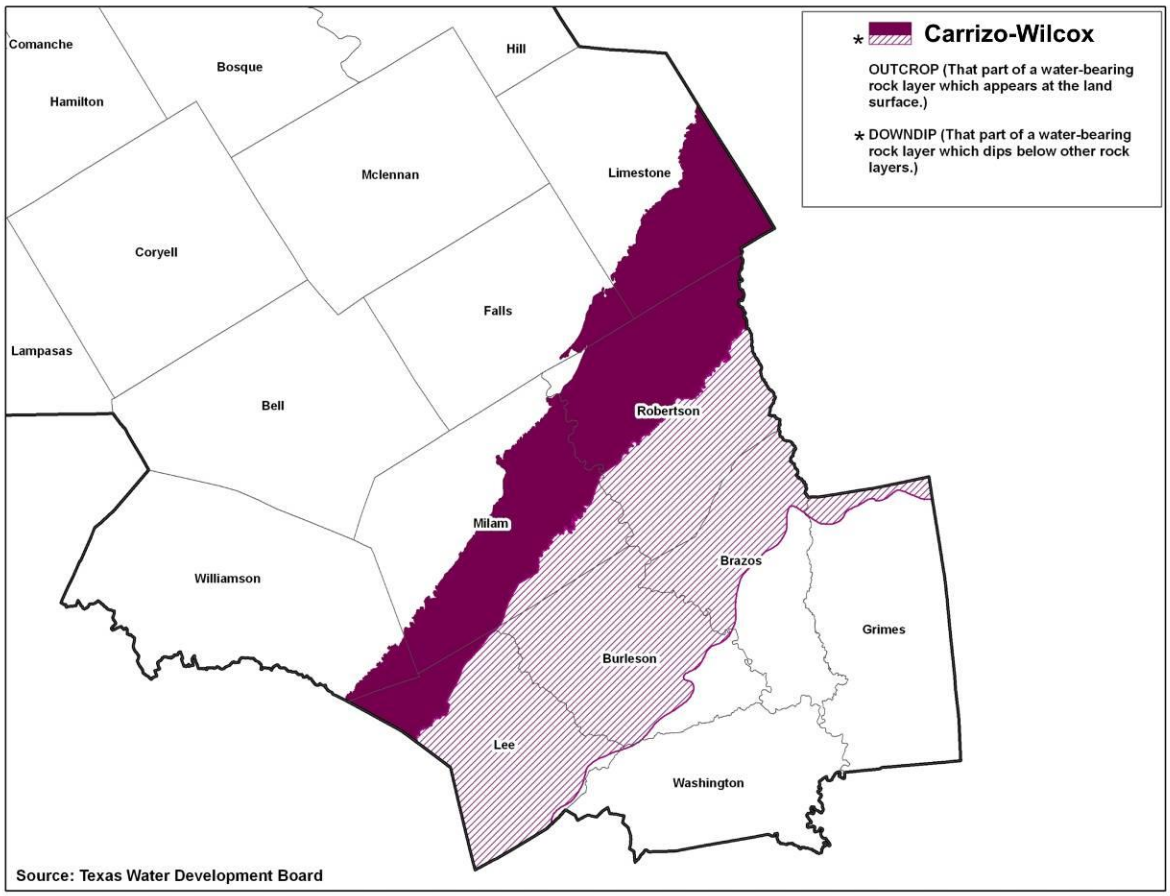

Figure B-3. Location of Carrizo-Wilcox Aquifer in Brazos G

Dockum Aquifer

Location

The Dockum, a minor aquifer, occurs only along in the western parts of Nolan, Fisher, and Kent Counties within the Brazos G (Figure B-4). It's important to note that there is a discrepancy in the occurrence of the Dockum as shown in Figure B-4 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.

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 a western Nolan County. Water table conditions mostly prevail.

Development and Use

The year 2012 groundwater use within the Brazos G totaled 12,959 acft. Almost all the water is used for irrigation in Nolan County.

Availability

The Dockum in Brazos G is in GMA-6 and 7. In letter dated December 2011 to GMA-6, TWDB referenced a report titled GAM Run 10-057 MAG, which presents the MAG. In letter dated July 2012 to GMA-7, TWDB referenced a report titled GAM Run 10-057 MAG Version 2, which presents the MAG. The MAGs was determination by using a modified version of the Dockum GAM, and the specified Desired Future Conditions provided by the GMA-6 and GMA-7 representatives. The results are presented in the following table.

Dockum Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
FISHER	2,880	2,880	2,880	2,880	2,880	2,880
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	12,056	12,056	12,056	12,056	12,056	12,056

Well Yields and Water Quality

Well yields vary widely, ranging from less than 10 gpm to 400 gpm and averaging 200 gpm. 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.

Resource Considerations

There are three groundwater conservation districts in Brazos G counties where the Dockum Aquifer is present. Groundwater management in Nolan County is by Wes-Tex GCD. There is little pumpage from the Dockum in the Kent County (Salt Fork UWCD) and Fisher County (Clear Fork GCD).

References

Duffin, G.L., and Beynon, B.E., 1992, Evaluation of water resources in parts of the Rolling Prairies region of North-Central Texas: TWDB Report 337.

Ewing, J.E. and others, 2008, Groundwater Availability for the Dockum Aquifer, TWDB Contract Report, http://www.twdb.state.tx.us/gam/dckm/dckm.htm

HDR Engineering, Inc., March 2009, Study 2: Groundwater availability model of the Edwards-Trinity (Plateau) and Dockum Aquifers in Western Nolan and Eastern Mitchell Counties, Texas: Prepared for Brazos G Regional Water Planning Group.

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

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.

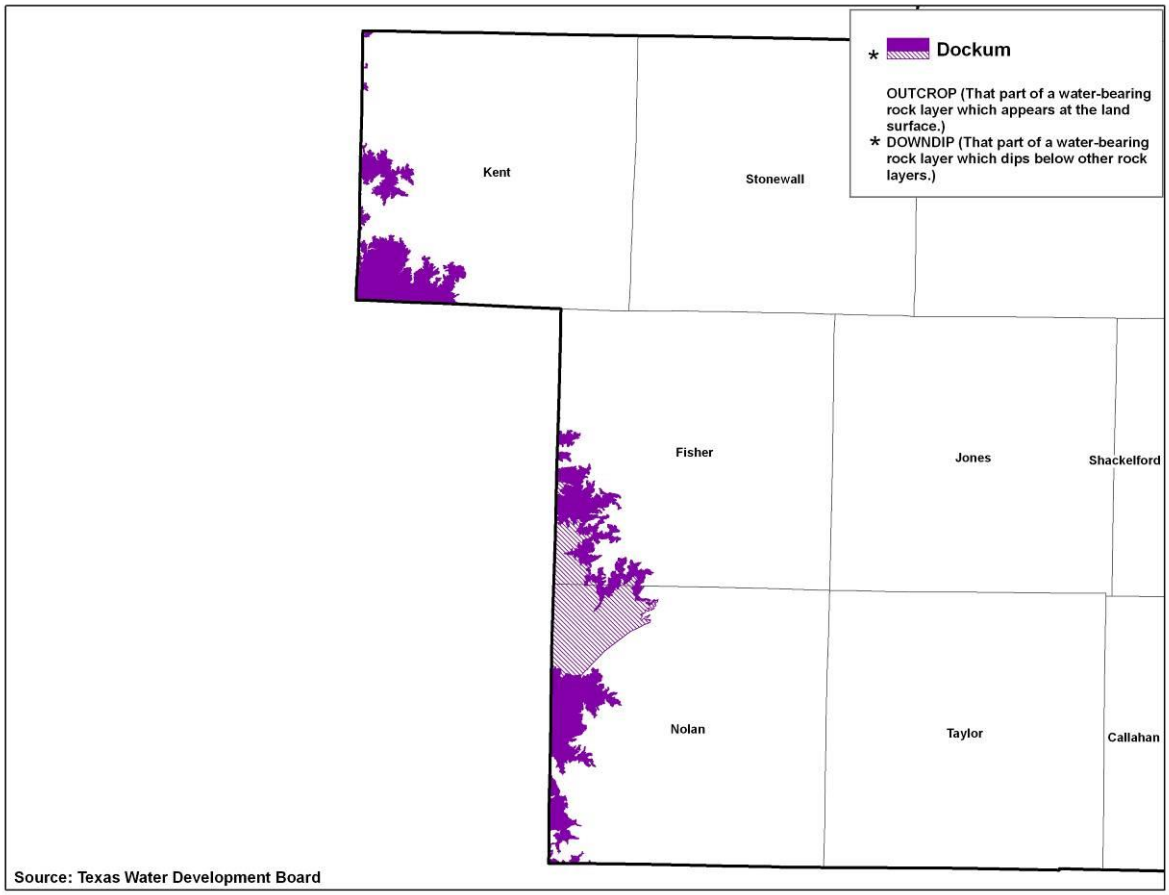

Figure B-4. Location of Dockum Aquifer in Brazos G

Edwards (Balcones Fault Zone) Aquifer

Location

The northern segment of the Edwards (Balcones Fault Zone (BFZ) Aquifer is a major aquifer and occurs in the southern part of central Brazos G. This segment of the aquifer also extends into the adjacent planning area to the south (northern Travis County, but only to the Colorado River). The northern segment of the Edwards (BFZ) is hydraulically separate from the Edwards (BFZ) occurring south of the Colorado River (the Barton Springs segment) and the Edwards (BFZ) even further south (San Antonio segment). 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.

The Edwards (BFZ) in the Brazos G occurs in a narrow north-south-trending belt across parts of Williamson and Bell Counties (Figure B-5), essentially extending from Round Rock to Salado.

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 (BFZ), with associated limestone 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) responds more quickly than most other aquifers to drought and wet 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 with the result being most springflow decreases greatly or dries up and some wells begin to fail. Over the years more and more wells have been drilled and increasingly diminished springflow has occurred. Introduction of surface water supplies has slowed the trend, but competition for Edwards (BFZ) water in the area is continuing.

Development and Use

The year 2012 groundwater use within the Brazos G totaled 19,358 acft. About 90 percent of the water is used for municipal supply, of which about 85 percent is in Williamson County.

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Availability

The Northern Edwards (BFZ) Aquifer in Brazos G is in GMA-8. In letter dated September 2008 to GMA-8, TWDB referenced a report titled GAM Run 08-10 MAG, which presents the MAG. The MAGs was determination by using the Northern Edwards (BFZ) (Northern Segment) Aquifer GAM, and the specified Desired Future Conditions provided by the GMA-8 representative. The results are presented in the following table.

Edwards (BFZ) Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	2020	2030	2030	2050	2060	2070
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

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.

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.

Resource Considerations

Groundwater resources appear to be overdeveloped during record 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).

References

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.

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

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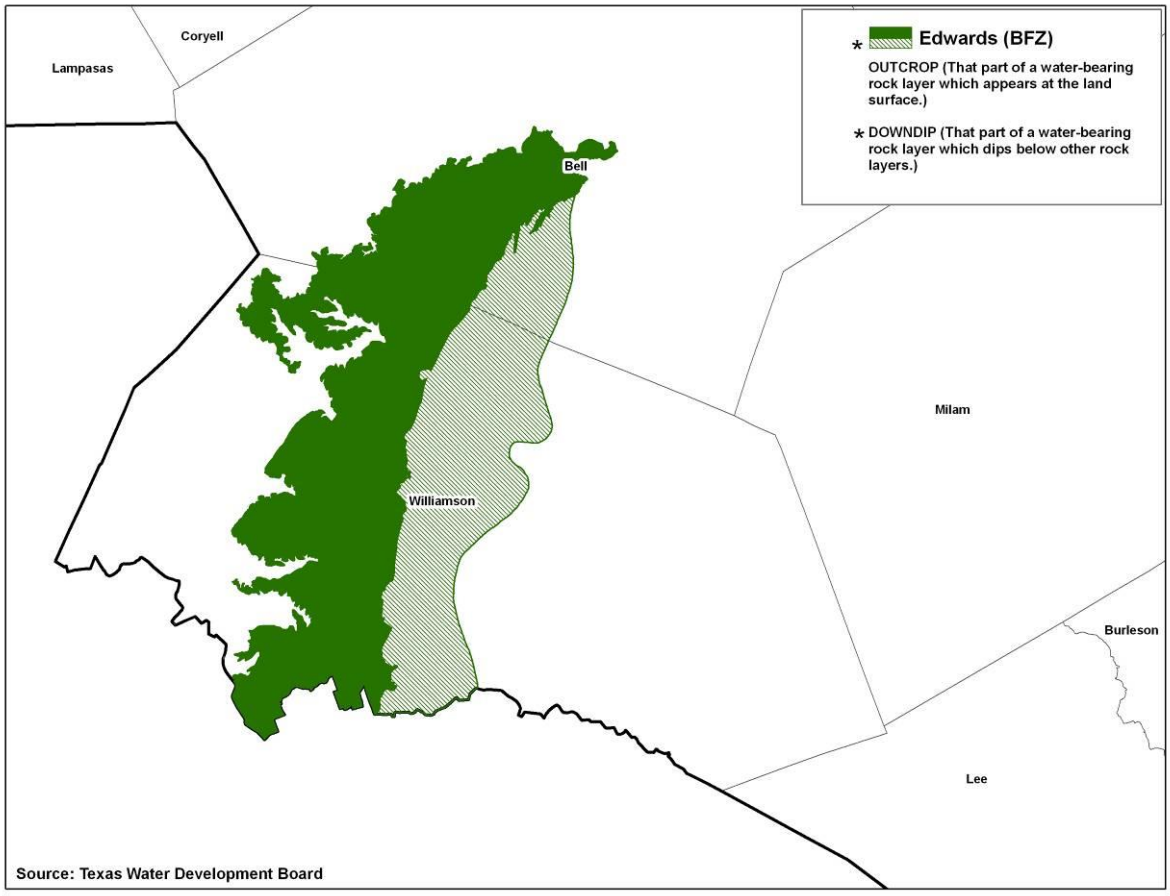

Figure B-5. Location of Edwards (BFZ) Aquifer (northern segment) in Brazos G

Edwards-Trinity (Plateau) Aquifer

Location

The Edwards-Trinity (Plateau) Aquifer is a major aquifer in Texas due to its expansive coverage and available water supplies. In the Brazos G, this aquifer is found only in parts of Nolan and Taylor Counties (Figure B-6). It provides only a very small water supply to the planning region.

Geohydrology

Water from the Edwards-Trinity (Plateau) is derived largely from Cretaceous sands (Trinity) in Nolan County in combination with the underlying Dockum, which exists in some areas. 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.

Availability

The Edwards-Trinity (Plateau) Aquifer in Brazos G is in GMA-7 and 8. In letter dated November 2012 to GMA-8, TWDB referenced a report titled GAM Run 10-043 MAG Version 2, which presents the MAG. The MAGs was determination by using the Edwards-Trinity (Plateau) and Pecos Valley Aquifers GAM, and the specified Desired Future Conditions provided by the GMA-8 representative. The results are presented in the following table.

Edwards-Trinity (Plateau) Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	2020	2030	2030	2050	2060	2070
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

Well Yields and Water Quality

Potential well yields are generally less than 100 gpm. Typical waters meet drinking water standards and contain 400 to 500 mg/L dissolved solids content.

Resource Consideration

In 2012, the TWDB estimated the total pumpage from the aquifer to be 2,631 acft. Most of the usage was for municipal purposes in Nolan County. Few undeveloped supplies appear available. Existing supplies appear to be susceptible to droughts.

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

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.

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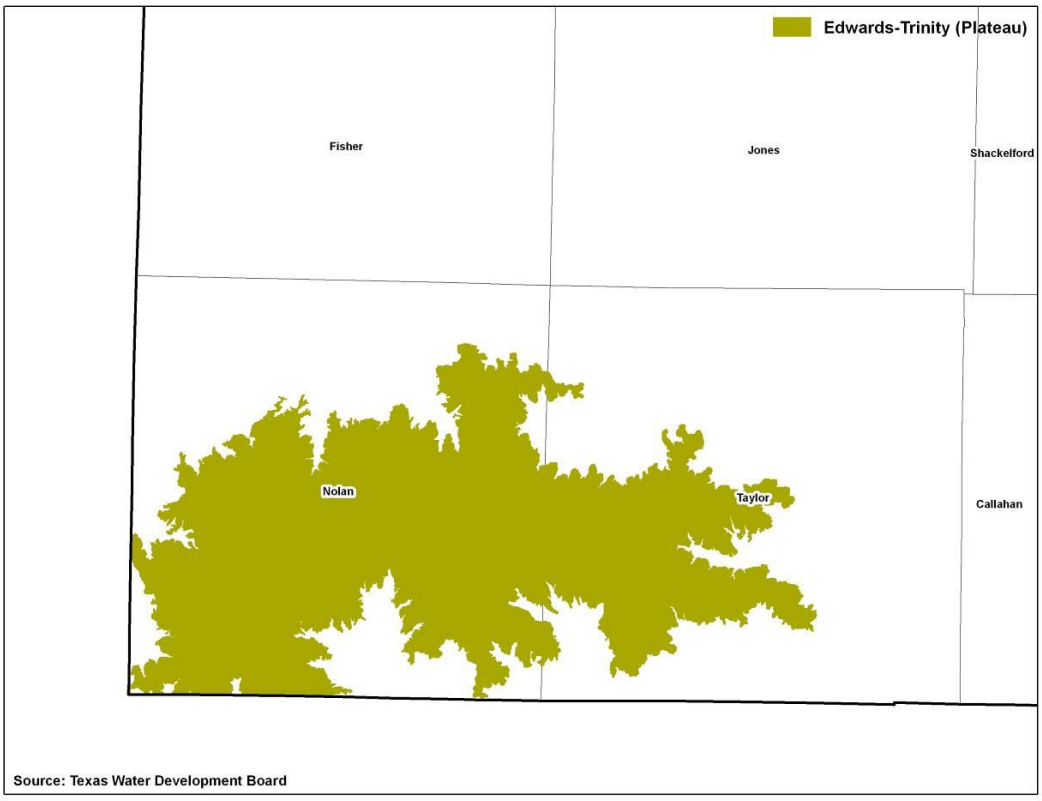

Figure B-6. Location of Edwards-Trinity (Plateau) Aquifer in Brazos G

Ellenburger-San Saba Aquifer

Location

The Ellenburger-San Saba Aquifer, a minor aquifer, occurs in the Brazos G, but only in the southwestern part of Lampasas County (Figure B-7). It primarily occurs in adjacent planning area to the south and west.

Geohydrology

The 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.

Development and Use

In 2012, the TWDB estimated pumpage to be about 22 acft.

Availability

The Ellenburger-San Saba Aquifer in Brazos G is in GMA-8 and only occurs in Lampasas County. In letter dated March 2012 to GMA-8, TWDB referenced a report titled GTA Aquifer Assessment 10-15 MAG, which presents the MAG using a water budget approach. The results are 2,953 acft/yr from 2020-2070.

Resource Considerations

Groundwater resources are large in relation to current use and future local demand. The Saratoga Underground Water Conservation District has jurisdiction in Lampasas County.

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.

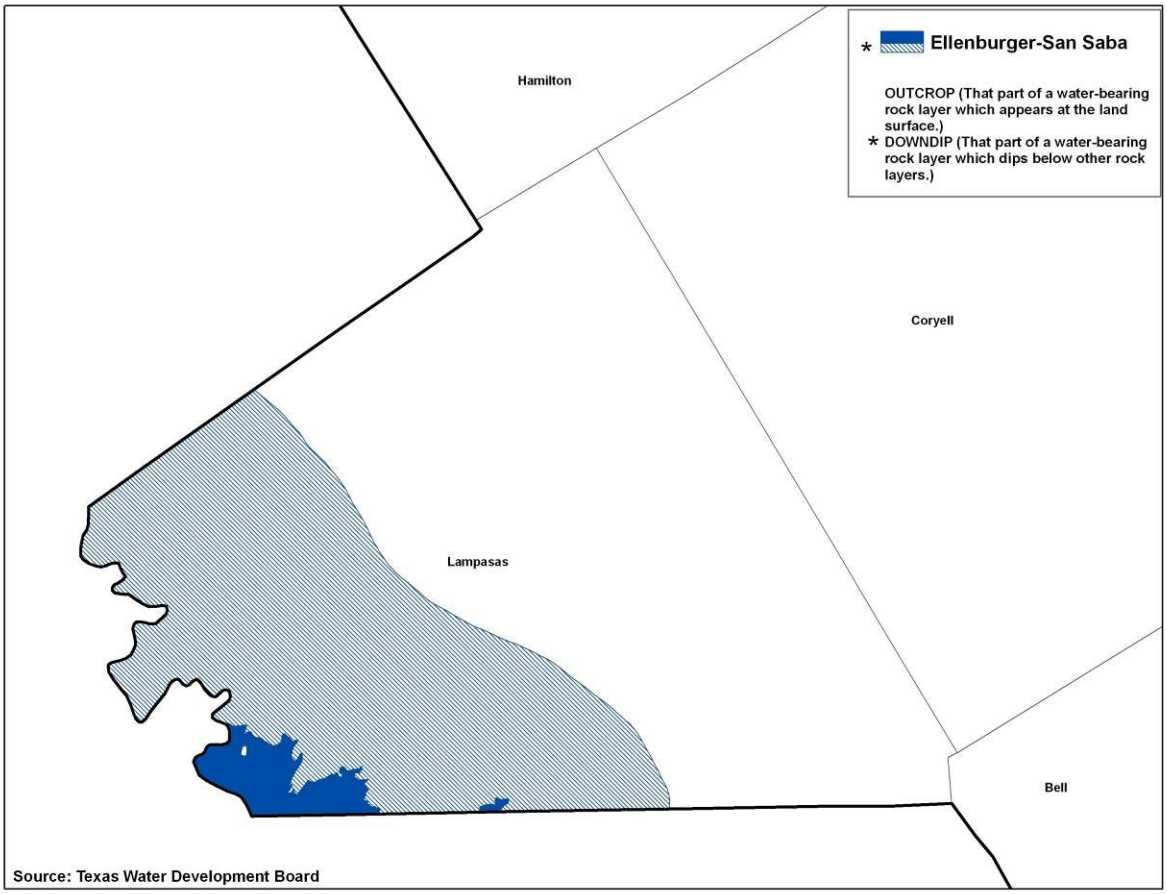

Figure B-7. Location of Ellenburger-San Saba Aquifer in Brazos G

Gulf Coast Aquifer

Location

The Gulf Coast Aquifer, a major aquifer, occurs in a limited area in the southeastern part of the Brazos G. It occurs in a northeast-southwest-trending band and extends into adjoining planning areas (Figure B-8). In the Brazos G 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.

Geohydrology

The Gulf Coast Aquifer consists primarily of four water-bearing zones, the deepest being the Catahoula. The Catahoula is overlain by the Jasper Aquifer (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 component 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 in the Brazos G is up to 1,200 feet, and net sand thickness is about 20 percent of the total thickness. From surface outcrops (recharge areas) the sand zones 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 large amounts of recharge are rejected by evapotranspiration in the outcrop. Mostly only freshwater sands occur in the Brazos G, and they extend to depths as great as 1,200 feet. However, some slightly saline water sands occur in the deeper extents of the Catahoula.

Development and Use

The year 2012 groundwater use within the Brazos G totaled 3,246 acft. About 80 percent of the water is used for municipal and industrial supply. About 60 percent of the pumpage is in Washington County.

Availability

The Gulf Coast Aquifer in Brazos G is in GMA-12 and 14. In letter dated November 2011 to GMA-14, TWDB referenced a report titled GAM Run 10-038 MAG, which presents the Modeled Available Groundwater MAG. The MAGs was determination by using the Gulf Coast Aquifer GAM, and the specified Desired Future Conditions provided by the GMA-14 representative. The results are presented in the following table.

Gulf Coast Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	2020	2030	2030	2050	2060	2070
BRAZOS	1,189	1,189	1,189	1,189	1,189	1,189
GRIMES	13,850	13,309	13,086	13,086	13,086	13,086
WASHINGTON	13,045	13,045	12,677	12,677	12,677	12,677
TOTAL	28,084	27,543	26,952	26,952	26,952	26,952

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.

Water Quality

Water 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.

Resource Considerations

Groundwater resources are largely undeveloped, few development problems have occurred to date and water-level declines are minimal to none. Few and limited water pollution problems are apparent. Counties with groundwater conservation districts include: Grimes (Bluebonnet GCD) and Robertson and Brazos (Brazos Valley GCD).

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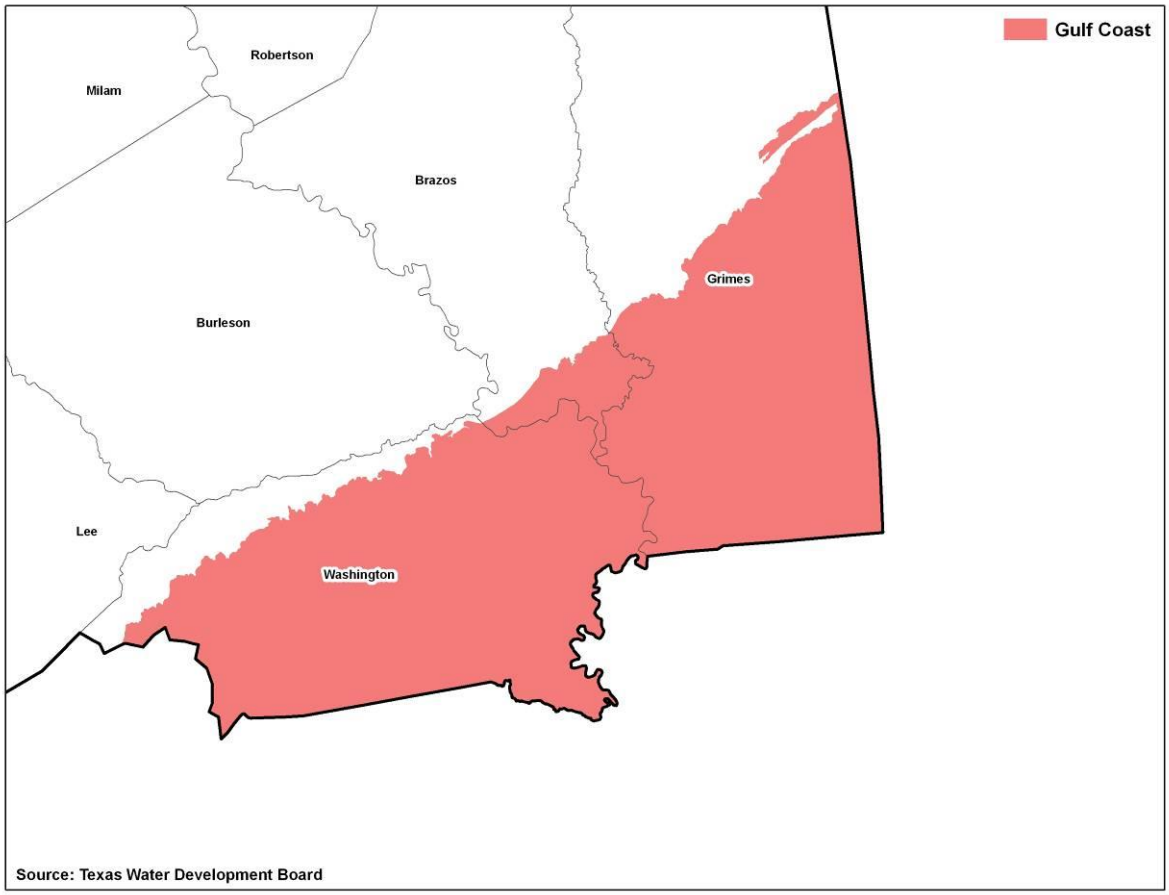

Figure B-8. Location of Gulf Coast Aquifer in Brazos G

Hickory Aquifer

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

The aquifer consists of sandstones which dip northeast away from the Llano Uplift. No pumpage is listed in Brazos G in TWDB data files for year 2012, and no Hickory wells are known to exist within the Brazos G. Geophysical log data suggest that the aquifer is deeper than 3,500 feet. Water-bearing properties are unknown, and water quality with excessive radiological parameters is likely. For these reasons, it is not considered in planning for the Brazos G. The Saratoga Underground Water Conservation District encompasses Lampasas County.

The Hickory Aquifer in Brazos G is in GMA-8. The MAGs was determination by using water budget calculations, and the specified Desired Future Conditions provided by the GMA-8 representative. The results are presented in the following table.

Hickory Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	2020	2030	2030	2050	2060	2070
LAMPASAS	113	113	113	113	113	113
WILLIAMSON	15	15	15	15	15	15
TOTAL	128	128	128	128	128	128

References

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Marble Falls Aquifer

Location

The Marble Falls Aquifer, a minor aquifer, occurs in the Brazos G only in Lampasas County (Figure B-9). It primarily occurs in an adjacent planning area to the south and west.

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.

Development and Use

TWDB pumpage estimates for year 2012 total 23 acft, of which 13 acft are for municipal use.

Availability

The Marble Falls Aquifer in Brazos G is in GMA-8. The MAGs was determination by using water budget calculations, and the specified Desired Future Conditions provided by the GMA-8 representative. The results are 2,837 acft/yr for decades from 2020 to 2070.

Well Yields and Water Quality

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

Resource Considerations

Groundwater resources are large in relation to current use and future local demand. Regulation is provided by the Saratoga Underground Water Conservation District for Lampasas County.

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.

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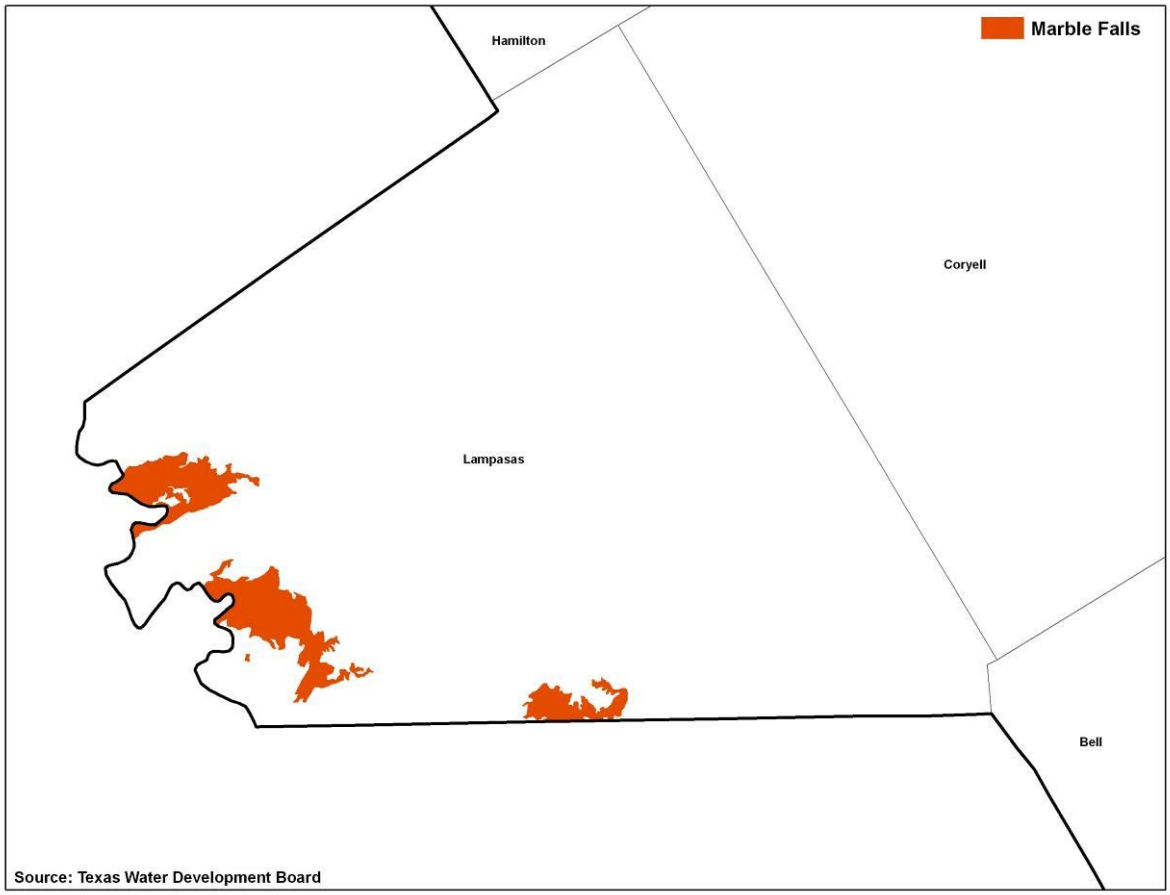

Figure B-9. Location of Marble Falls Aquifer in Brazos G

Queen City Aquifer

Location

The Queen City Aquifer, a minor aquifer, occurs in the southeastern part of the Brazos G 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-10).

Geohydrology

The water-bearing zones 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. A large amount of recharge is rejected by evapotranspiration in the outcrop.

Development and Use

The year 2012 groundwater use within the Brazos G totaled 3,376 acft. About 40 percent that use was in Milam County. Total use was about 65 percent irrigation and 25 percent municipal. 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.

Availability

The Queen City Aquifer in Brazos G is in GMA-12. In letter dated July 2012 to GMA-12, TWDB referenced a report titled GAM Run 10-044 MAG, which presents the MAG. The MAGs was determination by utilization of Version 2.01 of the Central Sparta, Queen City, and Carrizo-Wilcox GAM and the specified Desired Future Conditions provided by the GMA-12 and GMA-14 representatives. The results are presented in the following table.

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.

Water Quality

Water typically meets drinking water standards, except for iron. High iron content is a common, but treatable, problem. Hydrogen sulfide or methane gas is reported occasionally. Waters obtained near the outcrops of the water-bearing zones generally are 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.

Queen City Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
BRAZOS	604	634	587	533	529	529
BURLESON	415	446	446	446	446	446
GRIMES	637	637	637	637	637	637
LEE	120	115	113	111	111	111
MILAM	53	56	56	56	56	56
ROBERTSON	0	0	0	0	0	0
WASHINGTON	1	1	1	1	1	1
TOTAL	1,830	1,889	1,840	1,784	1,780	1,780

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).

References

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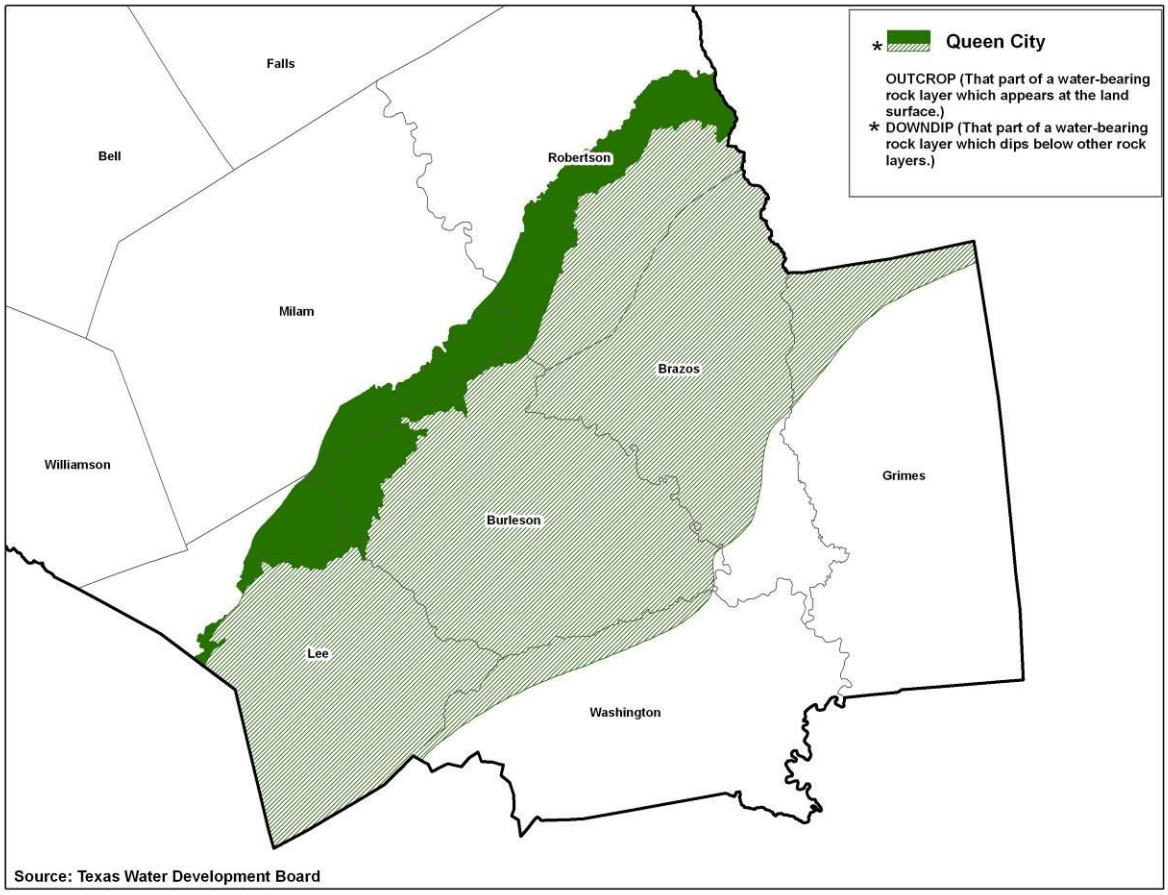

Figure B-10. Location of Queen City Aquifer in Brazos G

Seymour Aquifer

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 and in three other planning areas to the north. The Seymour is a shallow, alluvial aquifer used almost exclusively for irrigation.

The largest area of the Seymour Aquifer 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-11). 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.

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. The historical pumpage in Knox and Haskell Counties is equivalent to capturing about 2.0 inches, or over 8 percent, of the annual precipitation. Recharge amounting of over 20 percent of precipitation has been observed for some seasons near Rochester in Haskell County. 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 level or declining trend; and, few rises have been noted.

Development and Use

Within the Brazos G, the TWDB estimates total groundwater pumpage in 2012 to be 107,909 acft. About 98 percent is 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 nearly all of the municipal supplies. Haskell and Knox Counties accounted for about 96 percent of the total withdrawals in year 2012.

Availability

The Seymour Aquifer in Brazos G is in GMA-6. In a letter dated December 2011, the TWDB referenced a report titled GAM Run 10-058 MAG, which presents the MAG for the Seymour Aquifer in GMA-6. The MAG determination utilized the Desired Future Conditions (DFC's provided by the GMA-6 representative) and version 1.01 groundwater model of the Seymour and Blaine aquifers. Using the approach outlined by the TWDB, the MAG is calculated for each county. The results are presented in the following table.

Seymour Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	2020	2030	2030	2050	2060	2070
FISHER	2,935	2,931	2,920	2,915	2,733	2,733
HASKELL	46,180	44,575	42,358	42,524	43,617	43,617
JONES	2,918	2,918	2,918	2,918	2,918	2,918
KENT	1,181	1,180	1,180	1,179	1,179	1,179
KNOX	39,219	35,609	31,501	29,705	32,040	32,040
STONEWALL	233	230	224	215	214	214
THROCKMORTON	115	115	115	115	115	115
YOUNG	309	258	258	258	258	258
Total	93,090	87,816	81,474	79,829	83,074	83,074

Well Yields

Well yields 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.

Water Quality

Water quality 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 typically ranges from 30 to 90 mg/L and commonly exceeds the limit of 45 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 in included in the TDWR Report 226 (Harden, 1978).

Resource Considerations

Groundwater resources, while significant, are essentially fully developed, although some added supplies could be developed in some areas of water level rises or in other areas in average to wet times. 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.

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Duffin, G.L., and Beynon, B.E., 1992, Evaluation of water resources in parts of the Rolling Prairies region of North-Central Texas: TWDB Report 337.

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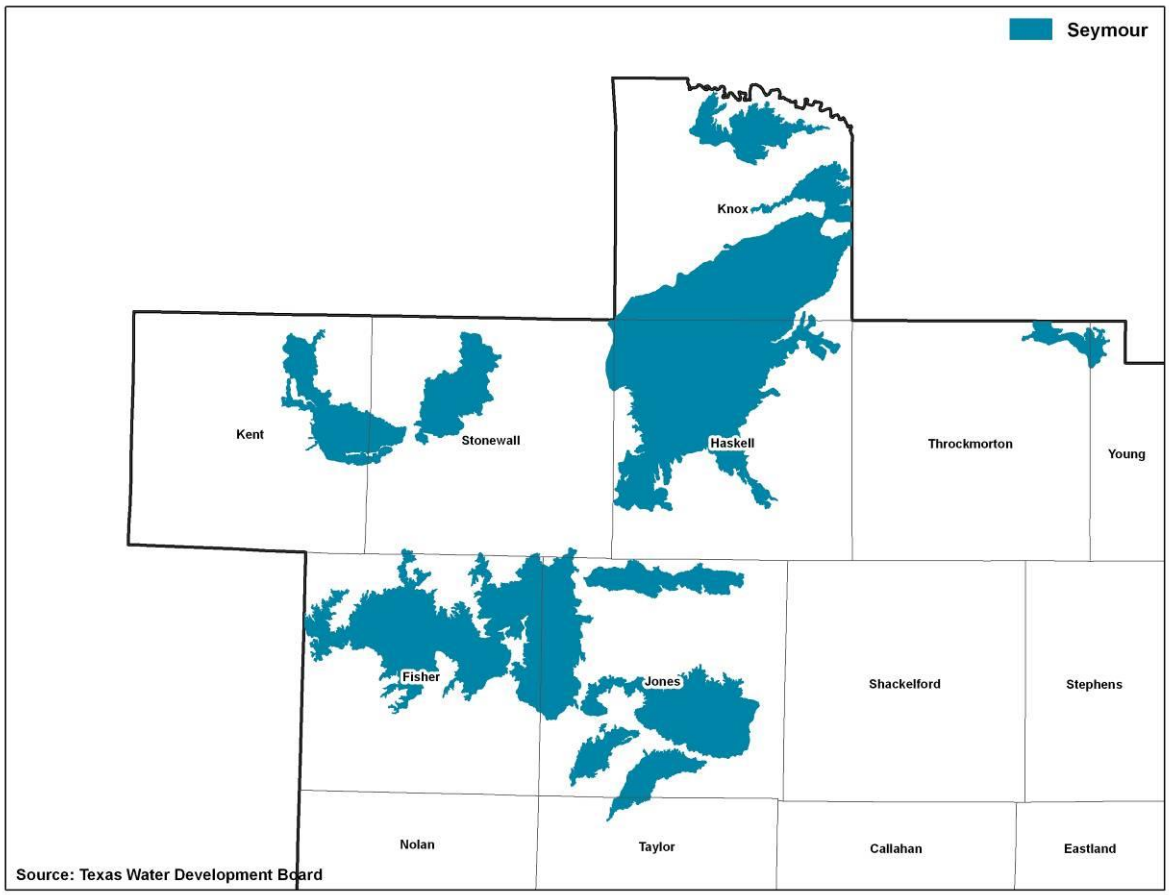

Figure B-11. Location of Seymour Aquifer in Brazos G

Sparta Aquifer

Location

The Sparta Aquifer, a minor aquifer, occurs in the southeastern part of the Brazos G 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-12). Its location is a short distance southeast of the Queen City Aquifer. Some users have wells screened across both zones.

Geohydrology

The water-bearing zones 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. A large amount of recharge is rejected by evapotranspiration in the outcrop.

Development and Use

The year 2012 groundwater use within the Brazos G totaled 3,708 acft. About 35 percent that use was for municipal purposes and about 57 percent in Brazos County.

Availability

The Sparta Aquifer in Brazos G is in GMA-12. In letter dated July 2012 to GMA-12, TWDB referenced a report titled GAM Run 10-046 MAG, which presents the MAG. The MAGs was determination by utilization of Version 2.01 of the central Sparta, Queen City, and Carrizo-Wilcox GAM and the specified Desired Future Conditions provided by the GMA-12 and GMA-14 representatives. The results are presented in the following table.

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.

Water Quality

Water typically meets drinking water standards, except for iron. High iron content is a common problem, and hydrogen sulfide gas is reported occasionally. Waters obtained near the outcrops of the water-bearing zones generally are 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 about 300 up to 1,000 mg/L or more.

Sparta Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
BRAZOS	5,941	7,308	7,305	7,307	7,307	7,307
BURLESON	2,245	4,041	5,612	6,734	6,734	6,734
GRIMES	2,571	2,571	2,571	2,571	2,571	2,571
LEE	323	311	305	294	294	294
ROBERTSON	300	400	500	616	616	616
WASHINGTON	0	0	0	0	0	0
TOTAL	11,380	14,631	16,293	17,522	17,522	17,522

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.

Water Quality

Water typically meets drinking water standards, except for iron. High iron content is a common problem, and hydrogen sulfide gas is reported occasionally. Waters obtained near the outcrops of the water-bearing zones generally are 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 about 300 up to 1,000 mg/L or more.

Resource Considerations

Groundwater resources are largely undeveloped, except in the vicinity of College Station and Texas A&M well fields. Few development problems have occurred to date, and water level declines have been limited except near these well fields and the former Bryan well fields. 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)

References

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Merrick, Biri, 1997, Water quality in the Sparta aquifer, TWDB Hydrologic Atlas No. 5.

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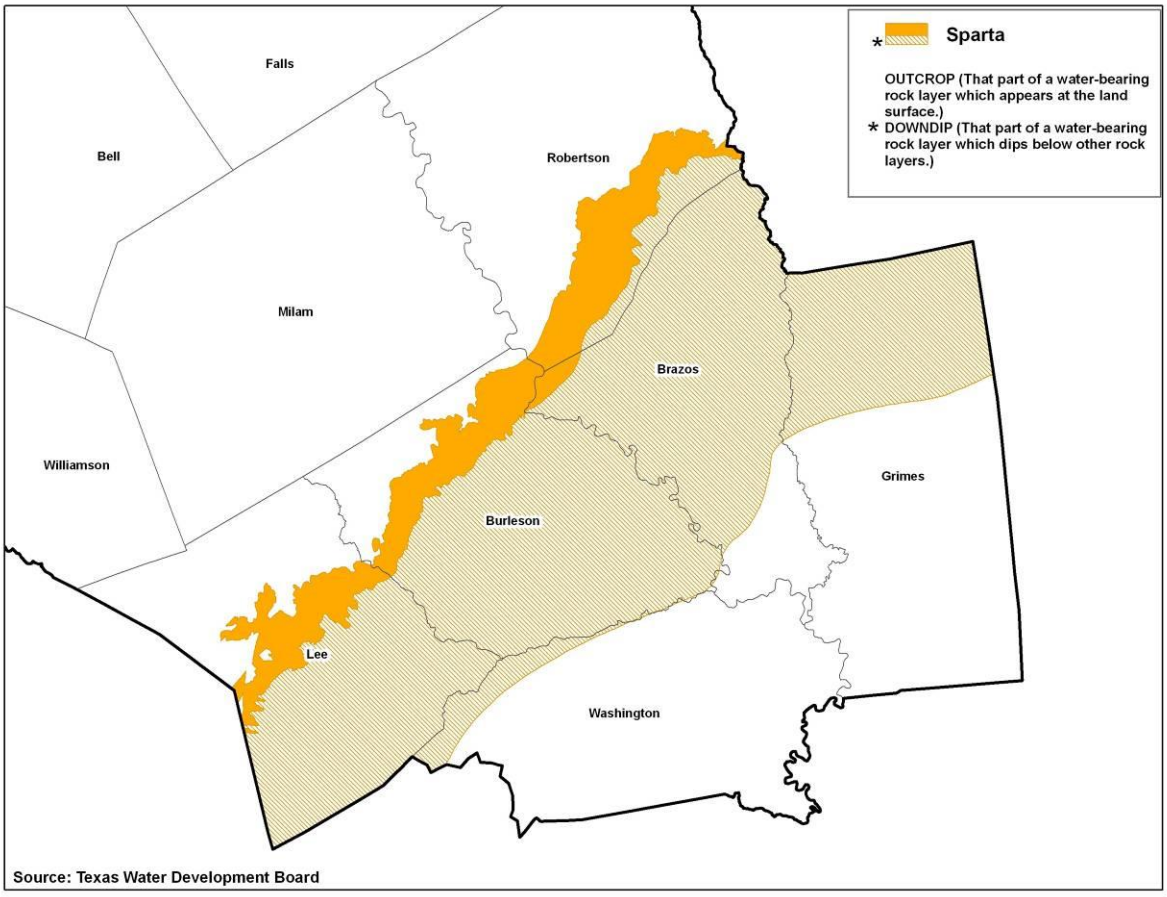

Figure B-12. Location of Sparta Aquifer in Brazos G

Trinity Aquifer

Location

The Trinity Aquifer, a major aquifer, 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 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. Considering the trends in water level declines as a reference, the aquifer appears to be overdeveloped in a large part of the confined area.

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 in Johnson, Hill, Bosque, McLennan, Coryell, Bell and Williamson Counties (Figure B-13).

Geohydrology

The aquifer is composed of the Paluxy, Glen Rose and Travis Peak Formations. The Travis Peak Formation is subdivided into the Hensell, Pearsall/CowCreek/Hamett, and Hosston/Sligo members. Updip where the Glen Rose thins or is missing, the Paluxy and Travis Peak Formations coalesce to form the Antlers Formation. The uppermost water-bearing zone is the Paluxy Formation. The lower water-bearing zone consists of Travis Peak Formation and is divided into the Hensell and Hosston Members in much of the eastern part of Brazos G. Groundwater is much more abundant in the lower zones than the upper zone.

The water-bearing zones 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. The rocks 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.

Development and Use

The year 2012 Brazos G groundwater use totaled 85,833 acft, of which 42 percent was municipal use and 52 percent irrigation. Erath County accounts for 15 percent of the total pumping. Municipal pumping in McLennan County accounts for about 11 percent.

Availability

The Trinity Aquifer in Brazos G is in GMA-8. In letter dated March 2012 to GMA-8, TWDB referenced a report titled GAM Run 10-063 MAG, which presents the MAG. The MAGs was determination by using the Northern Trinity and Woodbine Aquifers GAM, and the specified Desired Future Conditions provided by the GMA-8 representative. The results are presented in the following table.

In addition, some municipal or county authorities in the North - Central Texas Trinity and Woodbine Aquifers and Central Texas -Trinity Aquifer in Priority Groundwater Management Areas (PGMAs) may require a groundwater availability certification at a subdivision level. If these authorities choose to require a certification, the developer of a new subdivision plat is to follow TCEQ Chapter 230 - Groundwater Availability Certification for Platting rules. It is unknown how many, if any, of the authorities in these PGMAs require certifications.

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 part, large wells usually produce between 200 and 700 gpm. 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 from a combination of increased lift and the inability to create a cone of depression around the well.

Water Quality

Water quality from 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.

Resource Considerations

Groundwater resources are considered to be within or less than development limits 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. Counties with groundwater conservation districts include: Lampasas (Saratoga UWCD), Bell (Clearwater UWCD), Bosque, Comanche and Erath (Middle Trinity GCD), McLennan (McLennan County GCD), and Coryell (Tablerock GCD), Somerville, Johnson and Hill (Prairielands GCD) and Hood (Upper Trinity GCD).

Trinity Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
BELL	7,068	7,068	7,068	7,068	7,068	7,068
BOSQUE	5,849	5,849	5,849	5,849	5,849	5,849
CALLAHAN	3,777	3,777	3,777	3,777	3,777	3,777
COMANCHE	32,235	32,235	32,235	32,235	32,235	32,235
CORYELL	3,716	3,716	3,716	3,716	3,716	3,716
EASTLAND	4,720	4,720	4,720	4,720	4,720	4,720
ERATH	32,926	32,926	32,926	32,926	32,926	32,926
FALLS	169	169	169	169	169	169
HAMILTON	2,144	2,144	2,144	2,144	2,144	2,144
HILL	3,147	3,147	3,147	3,147	3,147	3,147
HOOD	11,145	11,145	11,145	11,145	11,145	11,145
JOHNSON	12,871	12,871	12,871	12,871	12,871	12,871
LAMPASAS	3,117	3,117	3,117	3,117	3,117	3,117
LIMESTONE	69	69	69	69	69	69
MCLENNAN	20,690	20,690	20,690	20,690	20,690	20,690
MILAM	288	288	288	288	288	288
PALO PINTO	12	12	12	12	12	12
SOMERVELL	2,485	2,485	2,485	2,485	2,485	2,485
TAYLOR	431	431	431	431	431	431
WILLIAMSON	1,582	1,582	1,582	1,582	1,582	1,582
TOTAL	148,441	148,441	148,441	148,441	148,441	148,441

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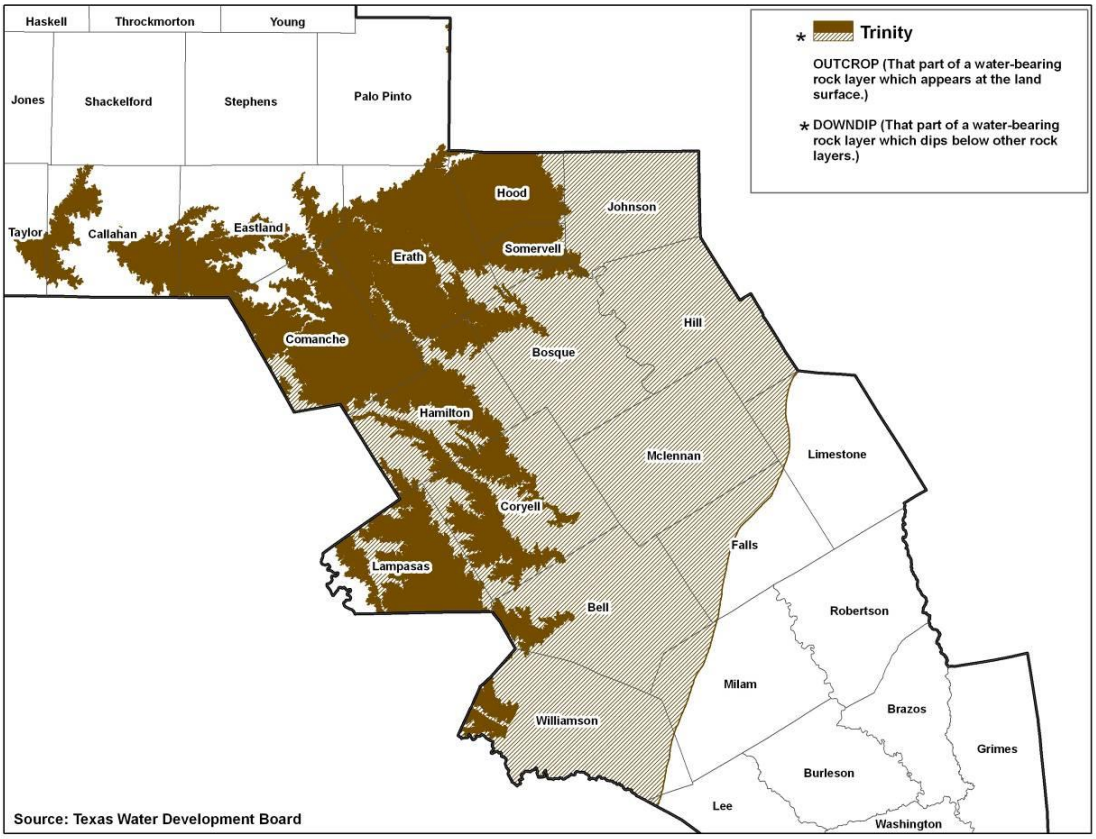

Figure B-13. Location of Trinity Aquifer in Brazos G

Woodbine Aquifer

Location

The Woodbine Aquifer, a minor aquifer, is in the north-central part of the Brazos G 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-14).

Geohydrology

The Woodbine 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 and sand thickness 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. Maximum estimated transmissivities for the best yielding zones in the lower Woodbine are about 250 to 500 square ft per day.

Development and Use

Development is mostly limited to local use for household and livestock purposes. The TWDB estimates the total pumpage to be 1,001 acft in 2012. About 75 percent of the pumpage was for municipal purposes.

Availability

The Woodbine Aquifer in Brazos G is in GMA-8. In letter dated July 2012 to GMA-8, TWDB referenced a report titled GAM Run 10-064 MAG, which presents the Modeled Available Groundwater. The MAGs was determination by using the Northern Trinity and Woodbine Aquifers GAM, and the specified Desired Future Conditions provided by the GMA-8 representative. The results are presented in the following table.

In addition, some municipal or county authorities in the North - Central Texas Trinity and Woodbine Aquifers in Priority Groundwater Management Areas (PGMAs) may require a groundwater availability certification at a subdivision level. If these authorities choose to require a certification, the developer of a new subdivision plat is to follow TCEQ Chapter 230 - Groundwater Availability Certification for Platting rules. It is unknown how many, if any, of the authorities in these PGMAs require subdivision certifications.

Woodbine Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
HILL	2,261	2,261	2,261	2,261	2,261	2,261
JOHNSON	4,732	4,732	4,732	4,732	4,732	4,732
LIMESTONE	34	34	34	34	34	34
MCLENNAN	5	5	5	5	5	5
TOTAL	7,032	7,032	7,032	7,032	7,032	7,032

Well Yields

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

Water Quality

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

Resource Considerations

The Woodbine is a relatively weak aquifer, supports little development and has minimal potential within the Brazos G. 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. No existing local plans are known. The groundwater conservation districts regulating the Woodbine in the Brazos G are McLennan County GCD and Prairielands GCD (Hill, Johnson Counties).

References

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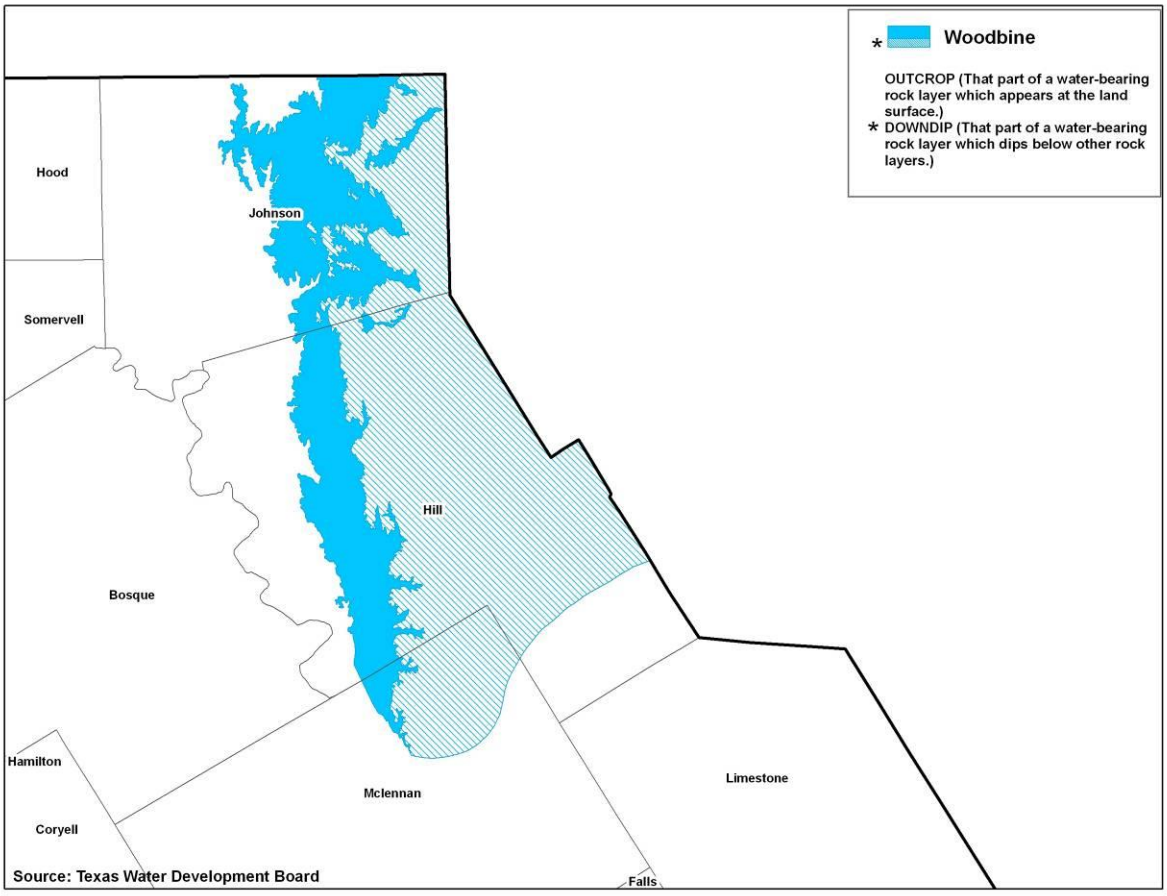

Figure B-14. Location of Woodbine Aquifer in Brazos G

Yegua-Jackson Aquifer

Location

The Yegua-Jackson Aquifer occurs in the southeastern part of the Brazos G 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-15). Its location is a short distance downdip of the Sparta Aquifer and is covered by younger sediments in much of the area.

Geohydrology

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. A large amount of recharge is rejected by evapotranspiration in the outcrop.

Development and Use

Development is mostly limited to local use for household and livestock purposes. The TWDB estimates the total pumpage to be 3,481 acft in 2012. About two-thirds of the pumpage occurred in Brazos County. Most of this pumpage was for irrigation purposes.

Availability

The Trinity Aquifer in Brazos G is in GMA-12 and 14. The TWDB referenced a report titled GAM Run 10-060 MAG for GMA-12 and GAM Run 10-055 MAG, Version 2 report for GMA-14 to describe the calculation of the MAG. The MAGs was determination by using the Yegua-Jackson Aquifer GAM, and the specified Desired Future Conditions provided by the GMA-12 and 14 representatives. The results are presented in the following table.

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.

Water Quality

Relatively shallow wells yield water that typically meets drinking water standards.. Waters obtained near the outcrops of the water-bearing zones generally are 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.

Resource Considerations

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

Yegua-Jackson Aquifer

Modeled Available Groundwater (acft/yr)						
COUNTY	**2020**	**2030**	**2030**	**2050**	**2060**	**2070**
BRAZOS	7,071	7,071	7,071	7,071	7,071	7,071
BURLESON	12,923	12,923	12,923	12,923	12,923	12,923
GRIMES	3,278	3,278	3,278	3,278	3,278	3,278
LEE	635	635	635	635	635	635
WASHINGTON	3,716	3,716	3,716	3,716	3,716	3,716
TOTAL	24,056	24,056	24,056	24,056	24,056	24,056

References

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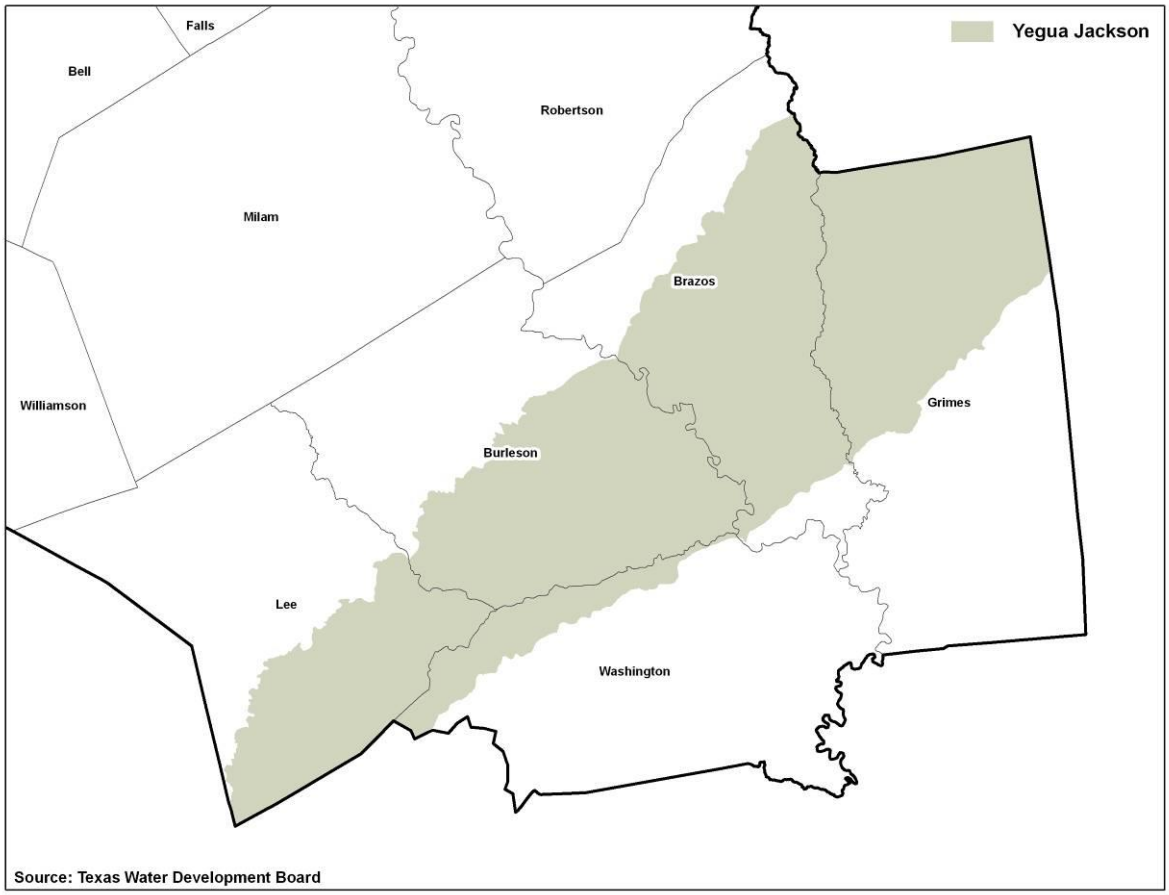

Figure B-15. Location of Yegua-Jackson Aquifer in Brazos G

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Appendix C
Population, Water Supply, and Water Demand Projections

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Table C-1
BELL County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	371,956	430,647	494,582	560,252	624,686	688,107

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	64,029	72,371	81,875	92,080	102,418	112,689
	Contractual Demand	4,188	4,188	4,188	4,188	4,188	4,188
	Municipal Existing Supply						
	Groundwater	5,399	5,399	5,399	5,399	5,399	5,399
	Surface water (Less Contractual Demand)[1]	104,135	102,181	102,107	99,036	98,799	99,095
	Total Existing Municipal Supply	109,534	107,579	107,505	104,434	104,197	104,494
	Municipal Balance	45,505	35,208	25,630	12,354	1,779	(8,195)
Industrial	Manufacturing Demand	1,370	1,490	1,607	1,711	1,847	1,994
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	497	497	497	497	497	497
	Total Manufacturing Supply	497	497	497	497	497	497
	Manufacturing Balance	(873)	(993)	(1,110)	(1,214)	(1,350)	(1,497)
	Steam-Electric Demand	4,220	4,934	5,804	6,865	8,157	9,693
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	(4,220)	(4,934)	(5,804)	(6,865)	(8,157)	(9,693)
	Mining Demand	3,242	3,980	4,599	5,349	6,105	6,968
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(3,242)	(3,980)	(4,599)	(5,349)	(6,105)	(6,968)
Agriculture	Irrigation Demand	2,205	2,174	2,147	2,117	2,086	2,058
	Irrigation Existing Supply						
	Groundwater	385	385	385	385	385	385
	Surface water	663	662	659	644	640	635
	Total Irrigation Supply	1,048	1,047	1,044	1,029	1,025	1,020
	Irrigation Balance	(1,157)	(1,127)	(1,103)	(1,088)	(1,061)	(1,038)
	Livestock Demand	1,009	1,009	1,009	1,009	1,009	1,009
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,009	1,009	1,009	1,009	1,009	1,009
	Total Livestock Supply	1,009	1,009	1,009	1,009	1,009	1,009
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	72,861	82,775	93,885	106,005	118,527	131,344
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	104,632	102,678	102,604	99,533	99,296	99,592
	Total Municipal & Industrial Supply	104,632	102,678	102,604	99,533	99,296	99,592
	Municipal & Industrial Balance	31,771	19,903	8,719	(6,472)	(19,231)	(31,752)
	Agriculture Demand	3,214	3,183	3,156	3,126	3,095	3,067
	Existing Agricultural Supply						
	Groundwater	385	385	385	385	385	385
	Surface water	1,672	1,671	1,668	1,653	1,649	1,644
	Total Agriculture Supply	2,057	2,056	2,053	2,038	2,034	2,029
	Agriculture Balance	(1,157)	(1,127)	(1,103)	(1,088)	(1,061)	(1,038)
	Total Demand	76,075	85,958	97,041	109,131	121,622	134,411
	Total Supply						
	Groundwater	385	385	385	385	385	385
	Surface water	106,303	104,348	104,272	101,185	100,945	101,236
	Total Supply	106,688	104,733	104,657	101,570	101,330	101,621
	Total Balance	30,613	18,775	7,616	(7,561)	(20,292)	(32,790)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-2. BELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
439 WSC						
Demand	1,044	1,134	1,233	1,351	1,489	1,644
Supply	1,499	1,489	1,475	1,399	1,442	1,550
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,499	1,489	1,475	1,399	1,442	1,551
SW Constrained Supply	1,499	1,489	1,475	1,399	1,442	1,550
Balance	455	355	242	48	(47)	(94)
ARMSTRONG WSC						
Demand	406	418	434	454	478	502
Supply	1,271	1,271	1,271	1,271	1,271	1,271
Groundwater	488	488	488	488	488	488
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	783	783	783	783	783	783
SW Constrained Supply	783	783	783	783	783	783
Balance	865	853	837	817	793	769
BARTLETT (P)						
Demand	159	179	202	226	252	277
Supply	36	36	36	36	36	36
Groundwater	36	36	36	36	36	36
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(123)	(143)	(166)	(190)	(216)	(241)
BELL-MILAM FALLS WSC (P)						
Demand	344	356	371	390	411	432
Supply	1,056	1,056	1,056	1,056	1,056	1,056
Groundwater	107	107	107	107	107	107
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	949	949	949	949	949	949
SW Constrained Supply	949	949	949	949	949	949
Balance	712	700	685	666	645	624
BELTON						
Demand	3,807	4,306	4,872	5,480	6,099	6,715
Supply	7,399	7,355	7,285	6,914	6,821	6,674
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	7,399	7,355	7,285	6,914	6,821	6,674
SW Constrained Supply	7,399	7,355	7,285	6,914	6,821	6,674
Balance	3,592	3,049	2,413	1,434	722	(41)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-2 Continued. BELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
CHISHOLM TRAIL SUD (P)						
Demand	553	632	721	814	906	998
Supply	308	308	308	308	308	308
Groundwater	31	31	31	31	31	31
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	665	644	677	784	930	1,101
SW Constrained Supply	277	277	277	277	277	277
Balance	(245)	(324)	(413)	(506)	(598)	(690)
DOG RIDGE WSC						
Demand	438	488	547	613	682	751
Supply	1,638	1,631	1,623	1,583	1,573	1,557
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,638	1,631	1,623	1,583	1,573	1,557
SW Constrained Supply	1,638	1,631	1,623	1,583	1,573	1,557
Balance	1,200	1,143	1,076	970	891	806
EAST BELL WSC (P)						
Demand	442	497	560	630	702	775
Supply	1,362	1,362	1,362	1,362	1,362	1,362
Groundwater	716	716	716	716	716	716
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	646	646	646	646	646	646
SW Constrained Supply	646	646	646	646	646	646
Balance	920	865	802	732	660	587
ELM CREEK WSC (P)						
Demand	254	288	327	370	413	457
Supply	347	345	342	332	328	321
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	347	345	342	332	328	321
SW Constrained Supply	347	345	342	332	328	321
Balance	93	57	15	(38)	(85)	(136)
FORT HOOD (P)						
Demand	3,954	3,870	3,815	3,810	3,804	3,804
Supply	5,683	5,494	5,305	5,115	4,926	4,737
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,683	5,494	5,305	5,115	4,926	4,737
SW Constrained Supply	5,683	5,494	5,305	5,115	4,926	4,737
Balance	1,729	1,624	1,490	1,305	1,122	933

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-2 Continued. BELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
HARKER HEIGHTS						
Demand	6,224	7,079	8,042	9,061	10,087	11,106
Supply	7,156	7,105	7,104	7,565	8,113	7,936
Groundwater	1	1	1	1	1	1
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	7,155	7,104	7,103	7,564	8,112	7,935
SW Constrained Supply	7,155	--	--	--	--	--
Balance	932	26	(938)	(1,496)	(1,974)	(3,170)
HOLLAND						
Demand	112	108	106	105	106	107
Supply	489	489	489	489	489	489
Groundwater	158	158	158	158	158	158
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	331	331	331	331	331	331
SW Constrained Supply	331	--	--	--	--	--
Balance	377	381	383	384	383	382
JARRELL-SCHWERTNER WSC (P)						
Demand	186	209	235	264	294	324
Supply	439	473	524	511	508	503
Groundwater	28	28	28	28	28	28
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	411	445	496	484	480	475
SW Constrained Supply	411	445	496	484	480	475
Balance	253	264	289	247	214	179
KEMPNER WSC (P)						
Demand	350	398	451	507	565	622
Supply	539	539	539	539	539	539
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	656	638	632	600	591	578
SW Constrained Supply	539	539	539	539	539	539
Balance	189	141	88	32	(26)	(83)
KILLEEN						
Demand	19,467	21,902	24,713	27,748	30,864	33,969
Contractual Demand	7	7	7	7	7	7
Supply	39,964	39,768	39,384	37,350	36,840	36,035
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	39,964	39,768	39,384	37,350	36,840	36,035
SW Constrained Supply	39,964	39,768	39,384	37,350	36,840	36,035
Balance	20,490	17,859	14,664	9,595	5,969	2,059

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-2 Continued. BELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
LITTLE RIVER-ACADEMY						
Demand	377	409	447	490	534	578
Supply	388	388	388	388	388	388
Groundwater	65	65	65	65	65	65
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	323	323	323	323	323	323
SW Constrained Supply	323	--	--	--	--	--
Balance	11	(21)	(59)	(102)	(146)	(190)
MOFFAT WSC						
Demand	479	481	487	500	517	536
Contractual Demand	11	11	11	11	11	11
Supply	1,340	1,334	1,323	1,286	1,271	1,248
Groundwater	206	206	206	206	206	206
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,134	1,128	1,118	1,081	1,066	1,043
SW Constrained Supply	1,134	--	NC	NC	NC	NC
Balance	850	842	825	775	743	701
MORGANS POINT RESORT						
Demand	595	684	787	897	1,009	1,121
Supply	1,935	1,935	1,935	1,935	1,935	1,935
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,935	1,935	1,935	1,935	1,935	1,935
SW Constrained Supply	1,935	1,935	1,935	1,935	1,935	1,935
Balance	1,340	1,251	1,148	1,038	926	814
NOLANVILLE						
Demand	1,382	1,749	2,154	2,575	2,991	3,401
Supply	1,310	1,305	1,296	1,245	1,233	1,213
Groundwater	320	320	320	320	320	320
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	990	985	976	925	913	893
SW Constrained Supply	990	985	976	925	913	893
Balance	(72)	(444)	(858)	(1,330)	(1,758)	(2,188)
PENDLETON WSC						
Demand	245	246	255	266	277	289
Contractual Demand	81	81	81	81	81	81
Supply	583	581	577	564	558	549
Groundwater	122	122	122	122	122	122
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	461	459	454	442	436	426
SW Constrained Supply	461	459	454	442	436	426
Balance	257	254	241	217	200	179

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-2 Continued. BELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ROGERS						
Demand	172	177	183	192	202	213
Supply	607	607	607	607	607	607
Groundwater	139	139	139	139	139	139
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	468	468	468	468	468	468
SW Constrained Supply	468	--	--	--	--	--
Balance	435	430	424	415	405	394
SALADO WSC						
Demand	1,726	1,863	2,017	2,182	2,348	2,514
Supply	2,236	2,236	2,236	2,236	2,236	2,236
Groundwater	2,053	2,053	2,053	2,053	2,053	2,053
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,034	1,026	1,018	975	964	947
SW Constrained Supply	183	183	183	183	183	183
Balance	510	373	219	54	(112)	(278)
TEMPLE						
Demand	19,485	22,186	25,212	28,415	31,644	34,842
Contractual Demand	4,030	4,030	4,030	4,030	4,030	4,030
Supply	25,738	24,312	24,869	24,177	24,074	25,535
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	25,738	24,312	24,869	24,177	24,074	25,535
SW Constrained Supply	25,738	24,312	24,869	24,177	24,074	25,535
Balance	2,223	(1,904)	(4,373)	(8,268)	(11,600)	(13,337)
TROY						
Demand	169	180	193	209	228	247
Contractual Demand	9	9	9	9	9	9
Supply	1,189	1,189	1,189	1,189	1,189	1,189
Groundwater	221	221	221	221	221	221
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	968	968	968	968	968	968
SW Constrained Supply	968	968	968	968	968	968
Balance	1,011	1,000	987	971	952	933
WEST BELL COUNTY WSC						
Demand	789	816	800	798	797	797
Supply	1,660	1,660	1,660	1,660	1,660	1,660
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,660	1,660	1,660	1,660	1,660	1,660
SW Constrained Supply	1,660	1,660	1,660	1,660	1,660	1,660
Balance	871	844	860	862	863	863

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-2 Continued. BELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BELL COUNTY-OTHER						
Demand	870	1,716	2,711	3,733	4,719	5,668
Contractual Demand	50	50	50	50	50	50
Supply	2,004	2,000	1,993	1,955	1,945	1,930
Groundwater	707	707	707	707	707	707
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,297	1,293	1,286	1,248	1,238	1,223
SW Constrained Supply	1,297	1,293	1,286	1,248	1,238	1,223
Balance	1,084	234	(768)	(1,828)	(2,824)	(3,788)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-3
BOSQUE County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	20,310	22,184	23,147	23,747	24,129	24,362

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	3,083	3,281	3,363	3,418	3,466	3,498
	Contractual Demand	113	113	113	113	113	113
	Municipal Existing Supply						
	Groundwater	3,575	3,575	3,575	3,575	3,575	3,575
	Surface water (Less Contractual Demand)[1]	842	842	842	842	842	842
	Total Existing Municipal Supply	4,417	4,417	4,417	4,417	4,417	4,417
	Municipal Balance	1,334	1,136	1,054	999	951	919
Industrial	Manufacturing Demand	2,739	3,058	3,372	3,643	3,959	4,302
	Manufacturing Existing Supply						
	Groundwater	871	871	871	871	871	871
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	871	871	871	871	871	871
	Manufacturing Balance	(1,868)	(2,187)	(2,501)	(2,772)	(3,088)	(3,431)
	Steam-Electric Demand	6,188	7,235	8,510	10,065	11,961	14,214
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	6,500	6,374	6,248	6,122	5,996	5,870
	Total Steam-Electric Supply	6,500	6,374	6,248	6,122	5,996	5,870
	Steam-Electric Balance	312	(861)	(2,262)	(3,943)	(5,965)	(8,345)
	Mining Demand	1,972	2,071	1,892	1,872	1,833	1,821
	Mining Existing Supply						
	Groundwater	129	129	129	129	129	129
	Surface water	0	0	0	0	0	0
	Total Mining Supply	129	129	129	129	129	129
	Mining Balance	(1,843)	(1,942)	(1,763)	(1,743)	(1,704)	(1,692)
Agriculture	Irrigation Demand	2,128	2,094	2,060	2,029	1,998	1,968
	Irrigation Existing Supply						
	Groundwater	1,460	1,460	1,460	1,460	1,460	1,460
	Surface water	132	132	132	131	131	131
	Total Irrigation Supply	1,592	1,592	1,592	1,591	1,591	1,591
	Irrigation Balance	(536)	(502)	(468)	(438)	(407)	(377)
	Livestock Demand	989	989	989	989	989	989
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	989	989	989	989	989	989
	Total Livestock Supply	989	989	989	989	989	989
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	13,982	15,645	17,137	18,998	21,219	23,835
	Existing Municipal & Industrial Supply						
	Groundwater	1,000	1,000	1,000	1,000	1,000	1,000
	Surface water	7,342	7,216	7,090	6,964	6,838	6,712
	Total Municipal & Industrial Supply	8,342	8,215	8,089	7,963	7,837	7,711
	Municipal & Industrial Balance	(5,641)	(7,430)	(9,048)	(11,035)	(13,382)	(16,124)
	Agriculture Demand	3,117	3,083	3,049	3,018	2,987	2,957
	Existing Agricultural Supply						
	Groundwater	1,460	1,460	1,460	1,460	1,460	1,460
	Surface water	1,121	1,121	1,121	1,120	1,120	1,120
	Total Agriculture Supply	2,581	2,581	2,581	2,580	2,580	2,580
	Agriculture Balance	(536)	(502)	(468)	(438)	(407)	(377)
	Total Demand	17,099	18,728	20,186	22,016	24,206	26,792
	Total Supply						
	Groundwater	2,460	2,460	2,460	2,460	2,460	2,460
	Surface water	8,463	8,337	8,210	8,084	7,958	7,832
	Total Supply	10,922	10,796	10,670	10,544	10,418	10,291
	Total Balance	(6,177)	(7,932)	(9,516)	(11,472)	(13,788)	(16,501)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-4. BOSQUE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
CHILDRESS CREEK WSC						
Demand	410	436	446	453	459	464
Supply	449	449	449	449	449	449
Groundwater	449	449	449	449	449	449
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	39	13	3	(4)	(10)	(15)
CLIFTON						
Demand	700	745	763	775	786	793
Contractual Demand	113	113	113	113	113	113
Supply	1,146	1,146	1,146	1,146	1,146	1,112
Groundwater	581	581	581	581	581	581
GW Constrained Supply	NC	NC	NC	NC	NC	546
Surface water	730	730	730	730	730	730
SW Constrained Supply	566	566	566	566	566	566
Balance	333	288	270	258	247	206
BOSQUE COUNTY-OTHER						
Demand	1,271	1,357	1,395	1,420	1,440	1,453
Supply	1,519	1,519	1,519	1,519	1,519	1,519
Groundwater	1,519	1,519	1,519	1,519	1,519	1,519
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	248	162	124	99	79	66
CROSS COUNTRY WSC (P)						
Demand	124	132	135	138	139	141
Supply	161	161	161	-	-	-
Groundwater	161	161	161	161	161	161
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	37	29	26	(138)	(139)	(141)
MERIDIAN						
Demand	222	234	238	241	244	246
Supply	487	487	487	487	487	487
Groundwater	375	375	375	375	375	375
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	112	112	112	112	112	112
SW Constrained Supply	112	112	112	112	112	112
Balance	265	253	249	246	243	241

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-4 Continued. BOSQUE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
VALLEY MILLS (P)						
Demand	259	276	284	288	293	295
Supply	294	294	294	294	294	294
Groundwater	294	294	294	294	294	294
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	35	18	10	6	1	(1)
WALNUT SPRINGS						
Demand	97	101	102	103	105	106
Supply	195	195	195	195	195	195
Groundwater	195	195	195	195	195	195
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	98	94	93	92	90	89

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-5
BRAZOS County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	227,654	264,665	302,997	349,894	400,135	455,529

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	44,928	50,728	56,578	64,224	72,685	82,071
	Contractual Demand	6,042	6,134	7,387	10,854	14,639	19,037
	Municipal Existing Supply						
	Groundwater	48,837	55,039	58,422	61,917	65,726	70,143
	Surface water (Less Contractual Demand)[1]	3,352	3,219	3,086	2,952	2,819	2,686
	Total Existing Municipal Supply	52,189	58,258	61,508	64,870	68,546	72,829
	Municipal Balance	7,261	7,530	4,930	646	(4,139)	(9,242)
Industrial	Manufacturing Demand	2,456	2,779	3,109	3,405	3,694	4,008
	Manufacturing Existing Supply						
	Groundwater	656	1,893	1,890	1,892	1,892	1,892
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	656	1,893	1,890	1,892	1,892	1,892
	Manufacturing Balance	(1,800)	(886)	(1,219)	(1,513)	(1,802)	(2,116)
	Steam-Electric Demand	503	406	460	312	405	384
	Steam-Electric Existing Supply						
	Groundwater	147	170	178	178	178	178
	Surface water[2]	85	85	85	85	85	85
	Total Steam-Electric Supply	232	255	263	263	263	263
	Steam-Electric Balance	(271)	(151)	(197)	(49)	(142)	(121)
	Mining Demand	1,088	1,610	1,433	1,144	923	814
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(1,088)	(1,610)	(1,433)	(1,144)	(923)	(814)
Agriculture	Irrigation Demand	26,050	24,791	23,594	22,459	21,374	20,438
	Irrigation Existing Supply						
	Groundwater	14,766	14,773	14,773	14,773	14,773	14,773
	Surface water	350	349	348	347	345	344
	Total Irrigation Supply	15,116	15,122	15,121	15,119	15,118	15,117
	Irrigation Balance	(10,934)	(9,669)	(8,473)	(7,340)	(6,256)	(5,321)
	Livestock Demand	1,322	1,322	1,322	1,322	1,322	1,322
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,322	1,322	1,322	1,322	1,322	1,322
	Total Livestock Supply	1,322	1,322	1,322	1,322	1,322	1,322
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	48,975	55,523	61,580	69,085	77,707	87,277
	Existing Municipal & Industrial Supply						
	Groundwater	804	2,063	2,068	2,070	2,070	2,070
	Surface water	3,437	3,304	3,171	3,037	2,904	2,771
	Total Municipal & Industrial Supply	4,241	5,367	5,239	5,107	4,974	4,841
	Municipal & Industrial Balance	(44,734)	(50,156)	(56,341)	(63,978)	(72,733)	(82,436)
	Agriculture Demand	27,372	26,113	24,916	23,781	22,696	21,760
	Existing Agricultural Supply						
	Groundwater	14,766	14,773	14,773	14,773	14,773	14,773
	Surface water	1,672	1,671	1,670	1,669	1,667	1,666
	Total Agriculture Supply	16,438	16,444	16,443	16,441	16,440	16,439
	Agriculture Balance	(10,934)	(9,669)	(8,473)	(7,340)	(6,256)	(5,321)
	Total Demand	76,347	81,636	86,496	92,866	100,403	109,037
	Total Supply						
	Groundwater	15,569	16,836	16,841	16,843	16,843	16,843
	Surface water	5,109	4,975	4,840	4,706	4,572	4,437
	Total Supply	20,679	21,811	21,681	21,549	21,414	21,280
	Total Balance	(55,668)	(59,825)	(64,815)	(71,317)	(78,989)	(87,757)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-6. BRAZOS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BRYAN						
Demand	15,696	16,243	20,342	23,492	26,926	30,652
Contractual Demand	4,431	4,320	5,358	8,550	12,031	16,093
Supply	16,792	19,294	20,167	20,167	20,167	20,167
Groundwater	16,792	19,294	20,167	20,167	20,167	20,167
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(3,335)	(1,269)	(5,533)	(11,875)	(18,790)	(26,578)
COLLEGE STATION						
Demand	19,178	24,320	25,726	29,619	33,927	38,728
Contractual Demand	6	6	6	6	6	6
Supply	14,211	16,302	18,360	21,952	25,848	30,333
Groundwater	14,211	16,302	18,360	21,952	25,848	30,333
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(4,973)	(8,024)	(7,372)	(7,673)	(8,085)	(8,401)
BRAZOS COUNTY-OTHER						
Demand	904	590	551	629	752	947
Supply	943	970	975	975	975	975
Groundwater	943	970	975	975	975	975
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	39	380	424	346	223	28
TEXAS A & M UNIVERSITY						
Demand	6,322	6,350	6,309	6,292	6,289	6,288
Supply	11,575	13,110	13,632	13,632	13,632	13,632
Groundwater	11,575	13,110	13,632	13,632	13,632	13,632
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	5,253	6,760	7,323	7,340	7,343	7,344
WELLBORN SUD (P)						
Demand	1,837	2,070	2,318	2,634	2,982	3,368
Contractual Demand	1,597	1,800	2,015	2,290	2,593	2,928
Supply	3,554	3,668	3,708	3,708	3,708	3,708
Groundwater	2,615	2,729	2,770	2,770	2,770	2,770
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,352	3,219	3,086	2,952	2,819	2,686
SW Constrained Supply	939	939	939	939	939	939
Balance	120	(202)	(625)	(1,216)	(1,867)	(2,588)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-6 Continued. BRAZOS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
WICKSON CREEK SUD (P)						
Demand	991	1,155	1,332	1,558	1,809	2,088
Contractual Demand	8	8	8	8	9	10
Supply	2,701	2,634	2,518	2,422	2,335	2,266
Groundwater	2,701	2,634	2,518	2,422	2,335	2,266
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	1,702	1,471	1,178	856	517	168

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-7
BURLESON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	18,539	19,946	20,838	21,735	22,442	23,022

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	2,898	3,014	3,114	3,210	3,298	3,376
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	5,713	5,684	5,663	5,679	5,697	5,702
	Surface water (Less Contractual Demand)[1]	0	0	0	0	0	0
	Total Existing Municipal Supply	5,713	5,684	5,663	5,679	5,697	5,702
	Municipal Balance	2,815	2,670	2,549	2,469	2,399	2,326
Industrial	Manufacturing Demand	139	161	183	203	221	241
	Manufacturing Existing Supply						
	Groundwater	139	139	139	139	139	139
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	139	139	139	139	139	139
	Manufacturing Balance	(0)	(22)	(44)	(64)	(82)	(102)
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	995	1,923	1,512	1,100	686	428
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(995)	(1,923)	(1,512)	(1,100)	(686)	(428)
Agriculture	Irrigation Demand	22,855	21,904	21,057	20,115	19,216	18,469
	Irrigation Existing Supply						
	Groundwater	22,962	22,962	22,962	22,962	22,962	22,962
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	22,962	22,962	22,962	22,962	22,962	22,962
	Irrigation Balance	107	1,058	1,905	2,847	3,746	4,493
	Livestock Demand	1,508	1,508	1,508	1,508	1,508	1,508
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,508	1,508	1,508	1,508	1,508	1,508
	Total Livestock Supply	1,508	1,508	1,508	1,508	1,508	1,508
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	4,032	5,098	4,809	4,513	4,205	4,045
	Existing Municipal & Industrial Supply						
	Groundwater	139	139	139	139	139	139
	Surface water	0	0	0	0	0	0
	Total Municipal & Industrial Supply	139	139	139	139	139	139
	Municipal & Industrial Balance	(3,893)	(4,959)	(4,670)	(4,374)	(4,066)	(3,906)
	Agriculture Demand	24,363	23,412	22,565	21,623	20,724	19,977
	Existing Agricultural Supply						
	Groundwater	22,962	22,962	22,962	22,962	22,962	22,962
	Surface water	1,508	1,508	1,508	1,508	1,508	1,508
	Total Agriculture Supply	24,470	24,470	24,470	24,470	24,470	24,470
	Agriculture Balance	107	1,058	1,905	2,847	3,746	4,493
	Total Demand	28,395	28,510	27,374	26,136	24,929	24,022
	Total Supply						
	Groundwater	23,100	23,100	23,100	23,100	23,100	23,100
	Surface water	1,508	1,508	1,508	1,508	1,508	1,508
	Total Supply	24,608	24,608	24,608	24,608	24,608	24,608
	Total Balance	(3,787)	(3,902)	(2,766)	(1,528)	(321)	586

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-8. BURLESON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
CALDWELL						
Demand	1,027	1,043	1,073	1,073	1,091	1,108
Supply	2,352	2,352	2,352	2,352	2,352	2,352
Groundwater	2,352	2,352	2,352	2,352	2,352	2,352
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	1,325	1,309	1,279	1,279	1,261	1,244
BURLESON COUNTY-OTHER						
Demand	615	673	703	771	809	841
Supply	873	873	873	873	873	873
Groundwater	873	873	873	873	873	873
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	258	200	170	102	64	32
DEANVILLE WSC						
Demand	465	471	490	487	493	499
Supply	701	701	701	701	701	701
Groundwater	701	701	701	701	701	701
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	236	230	211	214	208	202
MILANO WSC (P)						
Demand	212	220	224	231	237	243
Supply	251	234	231	231	241	246
Groundwater	251	234	231	231	241	246
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	39	14	7	0	4	3
SNOOK						
Demand	184	195	201	209	216	221
Supply	475	475	475	475	475	475
Groundwater	475	475	475	475	475	475
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	291	280	274	266	259	254

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-8 Continued. BURLESON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
SOMERVILLE						
Demand	266	277	285	296	305	313
Supply	891	891	891	891	891	891
Groundwater	891	891	891	891	891	891
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	625	614	606	595	586	578
SOUTHWEST MILAM WSC (P)						
Demand	129	135	138	143	147	151
Supply	170	158	140	156	163	163
Groundwater	170	158	140	156	163	163
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	41	23	2	13	16	12

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-9
CALLAHAN County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	14,482	15,504	16,061	16,351	16,564	16,700

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	1,389	1,407	1,402	1,401	1,413	1,423
	Contractual Demand	221	221	221	221	221	221
	Municipal Existing Supply						
	Groundwater	998	998	998	998	998	998
	Surface water (Less Contractual Demand)[1]	2,840	2,783	2,725	2,667	2,609	2,551
	Total Existing Municipal Supply	3,838	3,781	3,723	3,665	3,607	3,549
	Municipal Balance	2,449	2,374	2,321	2,264	2,194	2,126
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	228	227	214	201	190	180
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(228)	(227)	(214)	(201)	(190)	(180)
Agriculture	Irrigation Demand	573	564	555	546	537	529
	Irrigation Existing Supply						
	Groundwater	743	743	743	743	743	743
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	743	743	743	743	743	743
	Irrigation Balance	170	179	188	197	206	214
	Livestock Demand	920	920	920	920	920	920
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	920	920	920	920	920	920
	Total Livestock Supply	920	920	920	920	920	920
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	1,617	1,634	1,616	1,602	1,603	1,603
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	2,840	2,783	2,725	2,667	2,609	2,551
	Total Municipal & Industrial Supply	2,840	2,783	2,725	2,667	2,609	2,551
	Municipal & Industrial Balance	1,223	1,149	1,109	1,065	1,006	948
	Agriculture Demand	1,493	1,484	1,475	1,466	1,457	1,449
	Existing Agricultural Supply						
	Groundwater	743	743	743	743	743	743
	Surface water	920	920	920	920	920	920
	Total Agriculture Supply	1,663	1,663	1,663	1,663	1,663	1,663
	Agriculture Balance	170	179	188	197	206	214
	Total Demand	3,110	3,118	3,091	3,068	3,060	3,052
	Total Supply						
	Groundwater	743	743	743	743	743	743
	Surface water	3,760	3,703	3,645	3,587	3,529	3,471
	Total Supply	4,503	4,445	4,387	4,329	4,271	4,213
	Total Balance	1,393	1,327	1,296	1,261	1,211	1,161

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-10. CALLAHAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BAIRD						
Demand	241	233	227	226	226	226
Supply	307	307	307	307	307	307
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	307	307	307	307	307	307
SW Constrained Supply	307	307	307	307	307	307
Balance	66	74	80	81	81	81
CLYDE						
Demand	324	327	325	323	326	329
Contractual Demand	221	221	221	221	221	221
Supply	807	807	807	807	807	807
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,457	2,399	2,341	2,283	2,225	2,167
SW Constrained Supply	807	807	807	807	807	807
Balance	262	259	261	263	260	257
COLEMAN COUNTY SUD (P)						
Demand	20	21	21	21	21	22
Supply	10	11	11	11	11	11
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	10	11	11	11	11	11
SW Constrained Supply	10	11	11	11	11	11
Balance	(10)	(10)	(10)	(10)	(10)	(11)
CALLAHAN COUNTY-OTHER						
Demand	613	627	628	627	634	639
Supply	648	648	648	648	648	648
Groundwater	587	587	587	587	587	587
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	61	61	61	61	61	61
SW Constrained Supply	61	61	61	61	61	61
Balance	35	21	20	21	14	9
CROSS PLAINS						
Demand	179	186	188	191	193	194
Supply	411	411	411	411	411	411
Groundwater	411	411	411	411	411	411
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	232	225	223	220	218	217

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-10 Continued. CALLAHAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
POTOSI WSC (P)						
Demand	12	13	13	13	13	13
Supply	5	5	5	5	5	5
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5	5	5	5	5	5
SW Constrained Supply	5	--	--	--	--	--
Balance	(7)	(8)	(8)	(8)	(8)	(8)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-11
COMANCHE County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	14,502	15,078	15,467	15,974	16,406	16,814

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	1,549	1,539	1,522	1,541	1,578	1,617
	Contractual Demand	26	29	31	33	36	39
	Municipal Existing Supply						
	Groundwater	647	647	647	647	647	647
	Surface water (Less Contractual Demand)[1]	1,022	1,014	1,003	943	929	905
	Total Existing Municipal Supply	1,669	1,661	1,650	1,590	1,576	1,552
	Municipal Balance	120	122	128	49	(2)	(65)
Industrial	Manufacturing Demand	36	39	41	43	46	49
	Manufacturing Existing Supply						
	Groundwater	10	10	10	10	10	10
	Surface water	26	29	31	33	36	39
	Total Manufacturing Supply	36	39	41	43	46	49
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	444	525	363	276	188	128
	Mining Existing Supply						
	Groundwater	26	26	26	26	26	26
	Surface water	0	0	0	0	0	0
	Total Mining Supply	26	26	26	26	26	26
	Mining Balance	(418)	(499)	(337)	(250)	(162)	(102)
Agriculture	Irrigation Demand	27,458	27,175	26,894	26,617	26,342	26,076
	Irrigation Existing Supply						
	Groundwater	21,597	21,597	21,597	21,597	21,597	21,597
	Surface water	4,968	3,616	3,474	4,557	3,988	3,511
	Total Irrigation Supply	26,565	25,213	25,071	26,154	25,585	25,108
	Irrigation Balance	(893)	(1,962)	(1,823)	(463)	(757)	(968)
	Livestock Demand	3,895	3,895	3,895	3,895	3,895	3,895
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	3,895	3,895	3,895	3,895	3,895	3,895
	Total Livestock Supply	3,895	3,895	3,895	3,895	3,895	3,895
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	2,029	2,103	1,926	1,860	1,812	1,794
	Existing Municipal & Industrial Supply						
	Groundwater	36	36	36	36	36	36
	Surface water	1,048	1,043	1,034	976	965	944
	Total Municipal & Industrial Supply	1,084	1,079	1,070	1,013	1,001	980
	Municipal & Industrial Balance	(945)	(1,024)	(856)	(847)	(811)	(814)
	Agriculture Demand	31,353	31,070	30,789	30,512	30,237	29,971
	Existing Agricultural Supply						
	Groundwater	21,597	21,597	21,597	21,597	21,597	21,597
	Surface water	8,863	7,511	7,369	8,452	7,883	7,406
	Total Agriculture Supply	30,460	29,108	28,966	30,049	29,480	29,003
	Agriculture Balance	(893)	(1,962)	(1,823)	(463)	(757)	(968)
	Total Demand	33,382	33,173	32,715	32,372	32,049	31,765
	Total Supply						
	Groundwater	21,633	21,633	21,633	21,633	21,633	21,633
	Surface water	9,911	8,554	8,403	9,429	8,848	8,350
	Total Supply	31,544	30,187	30,036	31,062	30,481	29,983
	Total Balance	(1,838)	(2,986)	(2,679)	(1,310)	(1,568)	(1,782)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-12. COMANCHE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
COMANCHE						
Demand	521	519	515	522	535	548
Contractual Demand	26	29	31	33	36	39
Supply	706	700	693	651	641	625
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	706	700	693	651	641	625
SW Constrained Supply	706	700	693	651	641	625
Balance	159	152	147	96	70	38
COMANCHE COUNTY-OTHER						
Demand	805	800	791	800	819	839
Supply	656	656	656	656	656	656
Groundwater	647	647	647	647	647	647
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	9	9	9	9	9	9
SW Constrained Supply	9	9	9	9	9	9
Balance	(149)	(144)	(135)	(144)	(163)	(183)
DE LEON						
Demand	223	220	216	219	224	230
Supply	307	305	301	283	279	272
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	307	305	301	283	279	272
SW Constrained Supply	307	305	301	283	279	272
Balance	84	85	85	64	55	42

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-13
CORYELL County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	86,105	97,771	110,752	122,101	134,199	146,240

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	14,598	15,962	17,554	19,040	20,715	22,406
	Contractual Demand	1,446	1,559	1,686	1,802	1,931	2,060
	Municipal Existing Supply						
	Groundwater	614	614	614	614	614	614
	Surface water (Less Contractual Demand)[1]	23,068	22,889	22,674	21,788	21,773	21,375
	Total Existing Municipal Supply	23,682	23,503	23,288	22,402	22,387	21,989
	Municipal Balance	9,084	7,541	5,734	3,362	1,672	(417)
Industrial	Manufacturing Demand	10	11	12	13	14	15
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	10	11	12	13	14	15
	Total Manufacturing Supply	10	11	12	13	14	15
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	1,510	1,072	491	363	398	437
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(1,510)	(1,072)	(491)	(363)	(398)	(437)
Agriculture	Irrigation Demand	214	214	214	214	214	214
	Irrigation Existing Supply						
	Groundwater	240	240	240	240	240	240
	Surface water	530	530	530	530	530	530
	Total Irrigation Supply	770	770	770	770	770	770
	Irrigation Balance	556	556	556	556	556	556
	Livestock Demand	1,471	1,471	1,471	1,471	1,471	1,471
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,471	1,471	1,471	1,471	1,471	1,471
	Total Livestock Supply	1,471	1,471	1,471	1,471	1,471	1,471
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	16,118	17,045	18,057	19,416	21,127	22,858
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	23,078	22,900	22,686	21,801	21,787	21,390
	Total Municipal & Industrial Supply	23,078	22,900	22,686	21,801	21,787	21,390
	Municipal & Industrial Balance	6,960	5,855	4,629	2,385	660	(1,468)
	Agriculture Demand	1,685	1,685	1,685	1,685	1,685	1,685
	Existing Agricultural Supply						
	Groundwater	240	240	240	240	240	240
	Surface water	2,001	2,001	2,001	2,001	2,001	2,001
	Total Agriculture Supply	2,241	2,241	2,241	2,241	2,241	2,241
	Agriculture Balance	556	556	556	556	556	556
	Total Demand	17,803	18,730	19,742	21,101	22,812	24,543
	Total Supply						
	Groundwater	240	240	240	240	240	240
	Surface water	25,079	24,901	24,687	23,802	23,788	23,391
	Total Supply	25,319	25,141	24,927	24,042	24,028	23,631
	Total Balance	7,516	6,411	5,185	2,941	1,216	(912)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-14. CORYELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
COPPERAS COVE (P)						
Demand	4,266	4,655	5,133	5,586	6,122	6,666
Supply	8,686	8,644	8,563	8,133	8,026	7,856
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	8,686	8,644	8,563	8,133	8,026	7,856
SW Constrained Supply	8,686	8,644	8,563	8,133	8,026	7,856
Balance	4,420	3,989	3,430	2,547	1,904	1,190
CORYELL CITY WATER SUPPLY DISTRICT (P)						
Demand	809	899	1,006	1,101	1,208	1,316
Supply	1,010	1,110	1,224	1,315	1,420	1,523
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,010	1,110	1,224	1,315	1,420	1,523
SW Constrained Supply	1,010	1,110	1,224	1,315	1,420	1,523
Balance	201	211	218	214	212	207
CORYELL COUNTY-OTHER						
Demand	564	838	1,195	1,507	1,840	2,172
Supply	1,434	1,432	1,429	1,414	1,669	1,657
Groundwater	614	614	614	614	614	614
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	820	818	815	800	1,055	1,043
SW Constrained Supply	820	818	815	800	1,055	1,043
Balance	870	594	234	(93)	(171)	(515)
ELM CREEK WSC (P)						
Demand	44	48	54	58	64	70
Supply	56	56	55	54	53	52
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	56	56	55	54	53	52
SW Constrained Supply	56	56	55	54	53	52
Balance	12	8	1	(4)	(11)	(18)
FORT HOOD (P)						
Demand	3,672	3,679	3,627	3,622	3,617	3,616
Supply	5,373	5,194	5,016	4,837	4,658	4,479
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,373	5,194	5,016	4,837	4,658	4,479
SW Constrained Supply	5,373	5,194	5,016	4,837	4,658	4,479
Balance	1,701	1,515	1,389	1,215	1,041	863

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-14 Continued. CORYELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
GATESVILLE						
Demand	4,424	4,939	5,532	6,066	6,658	7,253
Contractual Demand	1,446	1,559	1,686	1,802	1,931	2,060
Supply	5,898	5,869	5,812	5,512	5,437	5,318
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,898	5,869	5,812	5,512	5,437	5,318
SW Constrained Supply	5,898	5,869	5,812	5,512	5,437	5,318
Balance	28	(629)	(1,406)	(2,356)	(3,152)	(3,995)
KEMPNER WSC (P)						
Demand	541	602	674	738	810	882
Supply	837	837	837	837	837	837
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,018	990	981	930	917	897
SW Constrained Supply	837	837	837	837	837	837
Balance	296	235	163	99	27	(45)
MULTI-COUNTY WSC (P)						
Demand	278	302	333	362	396	431
Supply	207	207	207	207	207	207
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	207	207	207	207	207	207
SW Constrained Supply	207	207	207	207	207	207
Balance	(71)	(95)	(126)	(155)	(189)	(224)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-15
EASTLAND County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	19,289	19,712	19,730	19,732	19,732	19,732

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	2,626	2,591	2,522	2,487	2,480	2,480
	Contractual Demand	267	267	267	267	267	267
	Municipal Existing Supply						
	Groundwater	216	216	216	216	216	216
	Surface water (Less Contractual Demand)[1]	7,123	7,119	7,114	7,101	7,095	7,088
	Total Existing Municipal Supply	7,339	7,334	7,329	7,316	7,311	7,304
	Municipal Balance	4,713	4,743	4,807	4,829	4,831	4,824
Industrial	Manufacturing Demand	72	77	82	85	91	97
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	110	115	120	123	129	135
	Total Manufacturing Supply	110	115	120	123	129	135
	Manufacturing Balance	38	38	38	38	38	38
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	1,164	1,173	929	714	518	432
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(1,164)	(1,173)	(929)	(714)	(518)	(432)
Agriculture	Irrigation Demand	6,819	6,829	6,837	6,840	6,843	6,850
	Irrigation Existing Supply						
	Groundwater	4,504	4,504	4,504	4,504	4,504	4,504
	Surface water	77	76	76	76	75	75
	Total Irrigation Supply	4,581	4,581	4,580	4,580	4,580	4,579
	Irrigation Balance	(2,238)	(2,248)	(2,257)	(2,260)	(2,263)	(2,271)
	Livestock Demand	1,127	1,127	1,127	1,127	1,127	1,127
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,127	1,127	1,127	1,127	1,127	1,127
	Total Livestock Supply	1,127	1,127	1,127	1,127	1,127	1,127
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	3,862	3,841	3,533	3,286	3,089	3,009
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	7,233	7,234	7,234	7,224	7,224	7,223
	Total Municipal & Industrial Supply	7,233	7,234	7,234	7,224	7,224	7,223
	Municipal & Industrial Balance	3,371	3,393	3,701	3,938	4,135	4,214
	Agriculture Demand	7,946	7,956	7,964	7,967	7,970	7,977
	Existing Agricultural Supply						
	Groundwater	4,504	4,504	4,504	4,504	4,504	4,504
	Surface water	1,204	1,203	1,203	1,203	1,202	1,202
	Total Agriculture Supply	5,708	5,708	5,707	5,707	5,707	5,706
	Agriculture Balance	(2,238)	(2,248)	(2,257)	(2,260)	(2,263)	(2,271)
	Total Demand	11,808	11,797	11,497	11,253	11,059	10,986
	Total Supply						
	Groundwater	4,504	4,504	4,504	4,504	4,504	4,504
	Surface water	8,437	8,437	8,437	8,426	8,426	8,425
	Total Supply	12,941	12,941	12,941	12,931	12,931	12,929
	Total Balance	1,133	1,144	1,444	1,678	1,872	1,943

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-16. EASTLAND COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
CISCO						
Demand	719	716	701	693	691	691
Contractual Demand	147	147	147	147	147	147
Supply	1,089	1,087	1,084	1,081	1,078	1,075
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,090	1,087	1,084	1,081	1,078	1,075
SW Constrained Supply	1,089	1,087	1,084	1,081	1,078	1,075
Balance	223	224	236	241	240	237
EASTLAND COUNTY-OTHER						
Demand	583	565	542	529	527	527
Supply	603	603	603	603	603	603
Groundwater	115	115	115	115	115	115
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	488	488	488	488	488	488
SW Constrained Supply	488	488	488	488	488	488
Balance	20	38	61	74	76	76
EASTLAND						
Demand	648	643	629	621	619	619
Contractual Demand	120	120	120	120	120	120
Supply	3,314	3,314	3,314	3,314	3,314	3,314
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,314	3,314	3,314	3,314	3,314	3,314
SW Constrained Supply	3,314	3,314	3,314	3,314	3,314	3,314
Balance	2,546	2,551	2,565	2,573	2,575	2,575
GORMAN						
Demand	99	95	91	90	90	90
Supply	169	168	166	156	153	149
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	169	168	166	156	153	149
SW Constrained Supply	169	168	166	156	153	149
Balance	70	73	75	66	63	59
RANGER						
Demand	463	460	450	448	447	447
Supply	2,025	2,025	2,025	2,025	2,025	2,025
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,025	2,025	2,025	2,025	2,025	2,025
SW Constrained Supply	2,025	2,025	2,025	2,025	2,025	2,025
Balance	1,562	1,565	1,575	1,577	1,578	1,578

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-16 Continued. EASTLAND COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
RISING STAR						
Demand	100	98	95	93	93	93
Supply	100	100	100	100	100	100
Groundwater	100	100	100	100	100	100
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	0	2	5	7	7	7
STEPHENS REGIONAL SUD (P)						
Demand	14	14	14	13	13	13
Supply	26	26	26	26	26	26
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	37	37	37	37	37	37
SW Constrained Supply	26	26	26	26	26	26
Balance	12	12	12	13	13	13

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-17
ERATH County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	42,135	46,923	50,968	54,827	58,474	61,844

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	5,706	6,150	6,534	6,949	7,392	7,815
	Contractual Demand	107	115	123	130	139	150
	Municipal Existing Supply						
	Groundwater	7,559	7,559	7,559	7,559	7,559	7,559
	Surface water (Less Contractual Demand)[1]	2,607	2,592	2,572	2,463	2,435	2,392
	Total Existing Municipal Supply	10,166	10,151	10,131	10,022	9,994	9,951
	Municipal Balance	4,460	4,001	3,597	3,073	2,602	2,136
Industrial	Manufacturing Demand	80	88	96	103	112	122
	Manufacturing Existing Supply						
	Groundwater	74	80	87	93	100	109
	Surface water	6	8	9	10	12	14
	Total Manufacturing Supply	80	88	96	103	112	123
	Manufacturing Balance	0	0	0	0	0	1
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	505	536	376	304	232	177
	Mining Existing Supply						
	Groundwater	511	511	511	511	511	511
	Surface water	0	0	0	0	0	0
	Total Mining Supply	511	511	511	511	511	511
	Mining Balance	6	(25)	135	207	279	334
Agriculture	Irrigation Demand	6,383	6,290	6,198	6,107	6,018	5,933
	Irrigation Existing Supply						
	Groundwater	6,923	6,923	6,923	6,923	6,923	6,923
	Surface water	101	100	100	99	99	98
	Total Irrigation Supply	7,024	7,023	7,023	7,022	7,022	7,021
	Irrigation Balance	641	733	825	915	1,004	1,088
	Livestock Demand	6,702	6,702	6,702	6,702	6,702	6,702
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	6,702	6,702	6,702	6,702	6,702	6,702
	Total Livestock Supply	6,702	6,702	6,702	6,702	6,702	6,702
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	6,291	6,774	7,006	7,356	7,736	8,114
	Existing Municipal & Industrial Supply						
	Groundwater	585	591	598	604	611	620
	Surface water	2,613	2,600	2,581	2,473	2,447	2,406
	Total Municipal & Industrial Supply	3,198	3,191	3,178	3,076	3,058	3,026
	Municipal & Industrial Balance	(3,093)	(3,583)	(3,828)	(4,280)	(4,678)	(5,088)
	Agriculture Demand	13,085	12,992	12,900	12,809	12,720	12,635
	Existing Agricultural Supply						
	Groundwater	6,923	6,923	6,923	6,923	6,923	6,923
	Surface water	6,803	6,802	6,802	6,801	6,801	6,800
	Total Agriculture Supply	13,726	13,725	13,725	13,724	13,724	13,723
	Agriculture Balance	641	733	825	915	1,004	1,088
	Total Demand	19,376	19,766	19,906	20,165	20,456	20,749
	Total Supply						
	Groundwater	7,508	7,514	7,521	7,527	7,534	7,543
	Surface water	9,416	9,403	9,382	9,274	9,248	9,206
	Total Supply	16,924	16,916	16,903	16,800	16,781	16,749
	Total Balance	(2,452)	(2,850)	(3,003)	(3,365)	(3,675)	(4,000)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-18. ERATH COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ERATH COUNTY-OTHER						
Demand	2,665	2,880	3,066	3,264	3,472	3,671
Contractual Demand	1	1	1	1	2	2
Supply	3,358	3,358	3,358	3,358	3,358	3,358
Groundwater	3,211	3,211	3,211	3,211	3,211	3,211
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	147	147	147	147	147	147
SW Constrained Supply	147	147	147	147	147	147
Balance	692	477	291	93	(116)	(315)
DUBLIN						
Demand	382	403	421	444	472	499
Contractual Demand	77	79	80	81	82	84
Supply	598	598	598	598	598	598
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	598	598	598	598	598	598
SW Constrained Supply	598	598	598	598	598	598
Balance	139	116	97	73	44	15
STEPHENVILLE						
Demand	2,659	2,867	3,047	3,241	3,448	3,645
Contractual Demand	29	35	42	48	55	64
Supply	6,210	6,195	6,175	6,066	6,038	5,995
Groundwater	4,348	4,348	4,348	4,348	4,348	4,348
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,862	1,847	1,827	1,718	1,690	1,647
SW Constrained Supply	1,862	1,847	1,827	1,718	1,690	1,647
Balance	3,522	3,293	3,086	2,777	2,535	2,286

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-19
FALLS County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	19,413	20,397	20,610	20,126	20,736	21,364

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	3,388	3,463	3,426	3,325	3,419	3,521
	Contractual Demand	80	84	87	88	93	98
	Municipal Existing Supply						
	Groundwater	1,197	1,196	1,197	1,195	1,196	1,198
	Surface water (Less Contractual Demand)[1]	4,165	4,165	4,165	4,165	4,165	4,165
	Total Existing Municipal Supply	5,362	5,362	5,362	5,360	5,361	5,363
	Municipal Balance	1,974	1,899	1,936	2,035	1,942	1,842
Industrial	Manufacturing Demand	1	1	1	1	1	1
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	(1)	(1)	(1)	(1)	(1)	(1)
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	225	246	259	286	307	331
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(225)	(246)	(259)	(286)	(307)	(331)
Agriculture	Irrigation Demand	4,301	4,163	4,027	3,898	3,772	3,658
	Irrigation Existing Supply						
	Groundwater	6,331	6,331	6,331	6,331	6,331	6,331
	Surface water	174	174	174	174	174	174
	Total Irrigation Supply	6,505	6,505	6,505	6,505	6,505	6,505
	Irrigation Balance	2,204	2,342	2,478	2,607	2,733	2,847
	Livestock Demand	1,878	1,878	1,878	1,878	1,878	1,878
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,878	1,878	1,878	1,878	1,878	1,878
	Total Livestock Supply	1,878	1,878	1,878	1,878	1,878	1,878
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	3,614	3,710	3,686	3,612	3,727	3,853
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	4,165	4,165	4,165	4,165	4,165	4,165
	Total Municipal & Industrial Supply	4,165	4,165	4,165	4,165	4,165	4,165
	Municipal & Industrial Balance	551	455	479	553	438	312
	Agriculture Demand	6,179	6,041	5,905	5,776	5,650	5,536
	Existing Agricultural Supply						
	Groundwater	6,331	6,331	6,331	6,331	6,331	6,331
	Surface water	2,052	2,052	2,052	2,052	2,052	2,052
	Total Agriculture Supply	8,383	8,383	8,383	8,383	8,383	8,383
	Agriculture Balance	2,204	2,342	2,478	2,607	2,733	2,847
	Total Demand	9,793	9,751	9,591	9,388	9,377	9,389
	Total Supply						
	Groundwater	6,331	6,331	6,331	6,331	6,331	6,331
	Surface water	6,217	6,217	6,217	6,217	6,217	6,217
	Total Supply	12,548	12,548	12,548	12,548	12,548	12,548
	Total Balance	2,755	2,797	2,957	3,160	3,171	3,159

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-20. FALLS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BELL-MILAM FALLS WSC (P)						
Demand	195	200	198	191	197	203
Supply	544	544	544	544	544	544
Groundwater	55	55	55	55	55	55
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	489	489	489	489	489	489
SW Constrained Supply	489	489	489	489	489	489
Balance	349	344	346	353	347	341
BRUCEVILLE-EDDY (P)						
Demand	1	1	1	1	1	1
Supply	4	4	4	4	4	4
Groundwater	1	1	1	1	1	1
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3	3	3	3	3	3
SW Constrained Supply	3	3	3	3	3	3
Balance	3	3	3	3	3	3
FALLS COUNTY-OTHER						
Demand	526	531	520	504	518	533
Contractual Demand	42	45	47	48	52	56
Supply	657	657	657	657	657	657
Groundwater	612	612	612	612	612	612
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	45	45	45	45	45	45
SW Constrained Supply	45	45	45	45	45	45
Balance	89	81	90	105	87	68
EAST BELL WSC (P)						
Demand	40	41	40	39	40	41
Supply	95	95	95	95	95	95
Groundwater	50	50	50	50	50	50
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	45	45	45	45	45	45
SW Constrained Supply	45	45	45	45	45	45
Balance	55	54	55	56	55	54
GOLINDA (P)						
Demand	44	44	44	42	43	45
Supply	44	44	44	42	43	45
Groundwater	44	44	44	42	43	45
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	0	(0)	0	-	-	-

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-20 Continued. FALLS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
LOTT						
Demand	75	75	73	70	71	73
Supply	234	234	234	234	234	234
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	234	234	234	234	234	234
SW Constrained Supply	234	--	--	--	--	--
Balance	159	159	161	164	163	161
MARLIN						
Demand	1,771	1,827	1,820	1,772	1,823	1,878
Supply	2,750	2,750	2,750	2,750	2,750	2,750
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,750	2,750	2,750	2,750	2,750	2,750
SW Constrained Supply	2,750	2,750	2,750	2,750	2,750	2,750
Balance	979	923	930	978	927	872
ROSEBUD						
Demand	173	174	170	165	170	175
Supply	600	600	600	600	600	600
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	600	600	600	600	600	600
SW Constrained Supply	600	600	600	600	600	600
Balance	427	426	430	435	430	425
TRI-COUNTY SUD (P)						
Demand	350	355	348	335	344	354
Supply	293	293	293	293	293	293
Groundwater	293	293	293	293	293	293
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(57)	(62)	(55)	(42)	(51)	(61)
WEST BRAZOS WSC (P)						
Demand	213	215	212	206	212	218
Contractual Demand	38	39	40	40	41	42
Supply	142	142	142	142	142	142
Groundwater	142	142	142	142	142	142
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(109)	(112)	(110)	(104)	(111)	(118)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-21
FISHER County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	4,001	4,001	4,001	4,001	4,001	4,001

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	526	506	491	489	486	486
	Contractual Demand	4	4	4	4	4	4
	Municipal Existing Supply						
	Groundwater	273	273	273	273	273	273
	Surface water (Less Contractual Demand)[1]	620	651	636	628	618	610
	Total Existing Municipal Supply	893	924	909	901	891	883
	Municipal Balance	367	418	418	412	405	397
Industrial	Manufacturing Demand	225	255	284	310	336	364
	Manufacturing Existing Supply						
	Groundwater	203	203	203	203	203	203
	Surface water	2	2	2	2	2	2
	Total Manufacturing Supply	205	205	205	205	205	205
	Manufacturing Balance	(20)	(50)	(79)	(105)	(131)	(159)
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	407	402	359	313	273	238
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(407)	(402)	(359)	(313)	(273)	(238)
Agriculture	Irrigation Demand	4,488	4,354	4,224	4,098	3,974	3,862
	Irrigation Existing Supply						
	Groundwater	5,273	5,273	5,273	5,273	5,273	5,273
	Surface water	17	17	17	17	17	17
	Total Irrigation Supply	5,290	5,290	5,290	5,290	5,290	5,290
	Irrigation Balance	802	936	1,066	1,192	1,316	1,428
	Livestock Demand	634	634	634	634	634	634
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	634	634	634	634	634	634
	Total Livestock Supply	634	634	634	634	634	634
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	1,158	1,163	1,134	1,112	1,095	1,088
	Existing Municipal & Industrial Supply						
	Groundwater	203	203	203	203	203	203
	Surface water	622	653	638	630	620	612
	Total Municipal & Industrial Supply	825	856	841	833	823	815
	Municipal & Industrial Balance	(333)	(307)	(293)	(279)	(272)	(273)
	Agriculture Demand	5,122	4,988	4,858	4,732	4,608	4,496
	Existing Agricultural Supply						
	Groundwater	5,273	5,273	5,273	5,273	5,273	5,273
	Surface water	651	651	651	651	651	651
	Total Agriculture Supply	5,924	5,924	5,924	5,924	5,924	5,924
	Agriculture Balance	802	936	1,066	1,192	1,316	1,428
	Total Demand	6,280	6,151	5,992	5,844	5,703	5,584
	Total Supply						
	Groundwater	5,476	5,476	5,476	5,476	5,476	5,476
	Surface water	1,273	1,304	1,289	1,281	1,271	1,263
	Total Supply	6,749	6,780	6,765	6,757	6,747	6,739
	Total Balance	469	629	773	913	1,044	1,155

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-22. FISHER COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BITTER CREEK WSC (P)						
Demand	112	108	104	104	104	104
Supply	260	260	260	260	260	260
Groundwater	83	83	83	83	83	83
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	177	177	177	177	177	177
SW Constrained Supply	177	177	177	177	177	177
Balance	148	152	156	156	156	156
FISHER COUNTY-OTHER						
Demand	115	110	106	106	105	105
Supply	156	156	156	156	156	156
Groundwater	156	156	156	156	156	156
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	41	46	50	50	51	51
ROBY						
Demand	121	118	116	115	114	114
Supply	384	384	384	384	384	384
Groundwater	34	34	34	34	34	34
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	350	350	350	350	350	350
SW Constrained Supply	350	350	350	350	350	350
Balance	263	266	268	269	270	270
ROTAN						
Demand	178	170	165	164	163	163
Contractual Demand	4	4	4	4	4	4
Supply	93	124	109	101	91	83
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	93	124	109	101	91	83
SW Constrained Supply	93	124	109	101	91	83
Balance	(89)	(50)	(60)	(67)	(76)	(84)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-23
GRIMES County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	29,441	32,179	34,258	36,454	38,277	39,867

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	4,178	4,375	4,520	4,742	4,940	5,120
	Contractual Demand	114	114	114	114	138	183
	Municipal Existing Supply						
	Groundwater	5,757	5,871	5,941	6,025	6,094	6,157
	Surface water (Less Contractual Demand)[1]	0	0	0	0	0	0
	Total Existing Municipal Supply	5,757	5,871	5,941	6,025	6,094	6,157
	Municipal Balance	1,579	1,496	1,421	1,283	1,154	1,037
Industrial	Manufacturing Demand	361	408	455	497	539	585
	Manufacturing Existing Supply						
	Groundwater	415	415	414	414	439	485
	Surface water	100	100	100	100	100	100
	Total Manufacturing Supply	515	515	514	514	539	585
	Manufacturing Balance	154	107	59	17	(0)	(0)
	Steam-Electric Demand	31,760	33,160	34,660	36,660	39,660	42,905
	Steam-Electric Existing Supply						
	Groundwater	34	34	34	34	34	34
	Surface water[2]	20,060	19,974	19,887	19,801	19,714	19,628
	Total Steam-Electric Supply	20,094	20,008	19,922	19,835	19,749	19,662
	Steam-Electric Balance	(11,666)	(13,152)	(14,738)	(16,825)	(19,911)	(23,243)
	Mining Demand	323	602	471	340	209	128
	Mining Existing Supply						
	Groundwater	33	33	33	33	33	33
	Surface water	0	0	0	0	0	0
	Total Mining Supply	33	33	33	33	33	33
	Mining Balance	(290)	(569)	(438)	(307)	(176)	(95)
Agriculture	Irrigation Demand	0	0	0	0	0	0
	Irrigation Existing Supply						
	Groundwater	585	585	585	585	585	585
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	585	585	585	585	585	585
	Irrigation Balance	585	585	585	585	585	585
	Livestock Demand	1,503	1,503	1,503	1,503	1,503	1,503
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,503	1,503	1,503	1,503	1,503	1,503
	Total Livestock Supply	1,503	1,503	1,503	1,503	1,503	1,503
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	36,622	38,545	40,106	42,239	45,348	48,738
	Existing Municipal & Industrial Supply						
	Groundwater	482	482	481	481	506	552
	Surface water	20,160	20,074	19,987	19,901	19,814	19,728
	Total Municipal & Industrial Supply	20,642	20,555	20,468	20,382	20,320	20,280
	Municipal & Industrial Balance	(15,980)	(17,990)	(19,638)	(21,857)	(25,028)	(28,458)
	Agriculture Demand	1,503	1,503	1,503	1,503	1,503	1,503
	Existing Agricultural Supply						
	Groundwater	585	585	585	585	585	585
	Surface water	1,503	1,503	1,503	1,503	1,503	1,503
	Total Agriculture Supply	2,088	2,088	2,088	2,088	2,088	2,088
	Agriculture Balance	585	585	585	585	585	585
	Total Demand	38,125	40,048	41,609	43,742	46,851	50,241
	Total Supply						
	Groundwater	1,067	1,067	1,066	1,066	1,091	1,137
	Surface water	21,663	21,577	21,490	21,404	21,317	21,231
	Total Supply	22,730	22,644	22,556	22,470	22,408	22,368
	Total Balance	(15,395)	(17,404)	(19,053)	(21,272)	(24,443)	(27,873)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-24. GRIMES COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
DOBBIN-PLANTERSVILLE WSC						
Demand	182	205	223	243	260	276
Supply	377	377	377	377	377	377
Groundwater	377	377	377	377	377	377
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	195	172	154	134	117	101
G & W WSC						
Demand	436	568	669	779	871	952
Supply	436	568	669	779	871	952
Groundwater	436	568	669	779	871	952
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(0)	(0)	(0)	(0)	(0)	(0)
GRIMES COUNTY-OTHER						
Demand	1,789	1,804	1,810	1,865	1,911	1,955
Supply	2,021	2,021	2,021	2,021	2,021	2,021
Groundwater	2,021	2,021	2,021	2,021	2,021	2,021
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	232	217	211	156	110	66
NAVASOTA						
Demand	1,428	1,439	1,446	1,466	1,493	1,518
Contractual Demand	114	114	114	114	138	183
Supply	2,203	2,203	2,203	2,203	2,203	2,203
Groundwater	2,203	2,203	2,203	2,203	2,203	2,203
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	661	650	643	623	572	502
WICKSON CREEK SUD (P)						
Demand	343	359	372	389	405	419
Supply	720	703	672	646	623	605
Groundwater	720	703	672	646	623	605
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	377	344	300	257	218	186

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-25
HAMILTON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	8,562	8,703	8,703	8,703	8,703	8,703

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	1,203	1,181	1,148	1,136	1,133	1,133
	Contractual Demand	248	249	250	251	252	253
	Municipal Existing Supply						
	Groundwater	955	955	955	955	955	955
	Surface water (Less Contractual Demand)[1]	959	952	942	888	874	853
	Total Existing Municipal Supply	1,914	1,907	1,897	1,843	1,829	1,808
	Municipal Balance	711	726	749	707	696	675
Industrial	Manufacturing Demand	5	6	7	8	9	10
	Manufacturing Existing Supply						
	Groundwater	5	6	7	8	9	10
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	5	6	7	8	9	10
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	393	236	101	0	0	0
	Mining Existing Supply						
	Groundwater	13	13	13	13	13	13
	Surface water	0	0	0	0	0	0
	Total Mining Supply	13	13	13	13	13	13
	Mining Balance	(381)	(224)	(89)	13	13	13
Agriculture	Irrigation Demand	507	504	495	471	448	436
	Irrigation Existing Supply						
	Groundwater	383	383	383	383	383	383
	Surface water	54	53	51	50	49	47
	Total Irrigation Supply	437	435	434	432	431	430
	Irrigation Balance	(71)	(69)	(61)	(39)	(17)	(6)
	Livestock Demand	1,677	1,677	1,677	1,677	1,677	1,677
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,677	1,677	1,677	1,677	1,677	1,677
	Total Livestock Supply	1,677	1,677	1,677	1,677	1,677	1,677
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	1,601	1,423	1,256	1,144	1,142	1,143
	Existing Municipal & Industrial Supply						
	Groundwater	18	19	20	21	22	23
	Surface water	959	952	942	888	874	853
	Total Municipal & Industrial Supply	977	970	961	908	896	875
	Municipal & Industrial Balance	(624)	(453)	(295)	(236)	(246)	(268)
	Agriculture Demand	2,184	2,181	2,172	2,148	2,125	2,113
	Existing Agricultural Supply						
	Groundwater	383	383	383	383	383	383
	Surface water	1,731	1,730	1,728	1,727	1,726	1,724
	Total Agriculture Supply	2,114	2,112	2,111	2,109	2,108	2,107
	Agriculture Balance	(71)	(69)	(61)	(39)	(17)	(6)
	Total Demand	3,785	3,604	3,428	3,292	3,267	3,256
	Total Supply						
	Groundwater	400	401	402	403	404	405
	Surface water	2,690	2,682	2,670	2,615	2,600	2,577
	Total Supply	3,090	3,083	3,072	3,018	3,004	2,982
	Total Balance	(695)	(521)	(356)	(274)	(263)	(274)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-26. HAMILTON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
HAMILTON COUNTY-OTHER						
Demand	423	411	397	395	394	394
Supply	572	572	572	572	572	572
Groundwater	572	572	572	572	572	572
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	149	161	175	177	178	178
HAMILTON						
Demand	534	529	517	511	510	510
Contractual Demand	248	249	250	251	252	253
Supply	921	914	904	850	836	815
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	921	914	904	850	836	815
SW Constrained Supply	921	914	904	850	836	815
Balance	140	136	137	88	75	52
HICO						
Demand	180	176	171	168	167	167
Supply	383	383	383	383	383	383
Groundwater	383	383	383	383	383	383
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	203	207	212	215	216	216
MULTI-COUNTY WSC (P)						
Demand	66	65	63	62	62	62
Supply	38	38	38	38	38	38
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	38	38	38	38	38	38
SW Constrained Supply	38	38	38	38	38	38
Balance	(28)	(27)	(25)	(24)	(24)	(24)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-27
HASKELL County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	5,913	5,973	6,004	6,064	6,153	6,285

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	872	851	834	835	845	863
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	258	249	236	237	243	243
	Surface water (Less Contractual Demand)[1]	953	827	701	575	449	323
	Total Existing Municipal Supply	1,211	1,076	937	812	692	566
	Municipal Balance	339	225	103	(23)	(153)	(297)
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	336	393	462	547	650	720
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	2,200	2,200	2,200	2,200	2,200	2,200
	Total Steam-Electric Supply	2,200	2,200	2,200	2,200	2,200	2,200
	Steam-Electric Balance	1,864	1,807	1,738	1,653	1,550	1,480
	Mining Demand	93	92	83	74	66	59
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(93)	(92)	(83)	(74)	(66)	(59)
Agriculture	Irrigation Demand	47,844	46,422	45,040	43,072	42,405	41,207
	Irrigation Existing Supply						
	Groundwater	45,619	44,034	41,843	42,007	43,087	43,087
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	45,619	44,034	41,843	42,007	43,087	43,087
	Irrigation Balance	(2,225)	(2,388)	(3,197)	(1,065)	682	1,880
	Livestock Demand	676	676	676	676	676	676
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	676	676	676	676	676	676
	Total Livestock Supply	676	676	676	676	676	676
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	1,301	1,336	1,379	1,456	1,561	1,642
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	3,153	3,027	2,901	2,775	2,649	2,523
	Total Municipal & Industrial Supply	3,153	3,027	2,901	2,775	2,649	2,523
	Municipal & Industrial Balance	1,852	1,691	1,522	1,319	1,088	881
	Agriculture Demand	48,520	47,098	45,716	43,748	43,081	41,883
	Existing Agricultural Supply						
	Groundwater	45,619	44,034	41,843	42,007	43,087	43,087
	Surface water	676	676	676	676	676	676
	Total Agriculture Supply	46,295	44,710	42,519	42,683	43,763	43,763
	Agriculture Balance	(2,225)	(2,388)	(3,197)	(1,065)	682	1,880
	Total Demand	49,821	48,434	47,095	45,204	44,642	43,525
	Total Supply						
	Groundwater	45,619	44,034	41,843	42,007	43,087	43,087
	Surface water	3,829	3,703	3,577	3,451	3,325	3,199
	Total Supply	49,448	47,736	45,420	45,458	46,412	46,286
	Total Balance	(373)	(698)	(1,675)	254	1,770	2,761

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-28. HASKELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
HASKELL COUNTY-OTHER						
Demand	255	247	243	245	248	253
Supply	535	489	441	400	362	320
Groundwater	130	125	119	120	123	123
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	405	363	322	280	239	198
SW Constrained Supply	405	363	322	280	239	198
Balance	280	242	198	155	114	67
HASKELL						
Demand	519	509	498	496	502	513
Supply	461	383	305	227	149	71
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	461	383	305	227	149	71
SW Constrained Supply	461	383	305	227	149	71
Balance	(58)	(126)	(193)	(269)	(353)	(442)
RULE						
Demand	89	86	84	85	86	88
Supply	160	150	139	134	131	126
Groundwater	128	123	117	118	121	121
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	33	27	22	16	11	5
SW Constrained Supply	33	27	22	16	11	5
Balance	71	64	55	49	45	38
STAMFORD (P)						
Demand	9	9	9	9	9	9
Supply	15	15	15	15	15	15
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	55	54	53	51	50	49
SW Constrained Supply	15	15	15	15	15	15
Balance	6	6	6	6	6	6

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-29
HILL County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	37,828	40,277	41,935	43,643	44,937	45,989

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	5,616	5,828	5,965	6,160	6,328	6,474
	Contractual Demand	500	508	516	523	530	537
	Municipal Existing Supply						
	Groundwater	3,618	3,618	3,618	3,618	3,618	3,618
	Surface water (Less Contractual Demand)[1]	7,277	7,028	6,997	6,959	6,914	6,866
	Total Existing Municipal Supply	10,895	10,646	10,615	10,577	10,532	10,485
	Municipal Balance	5,279	4,818	4,650	4,417	4,204	4,011
Industrial	Manufacturing Demand	45	50	55	60	65	70
	Manufacturing Existing Supply						
	Groundwater	45	50	55	60	65	70
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	45	50	55	60	65	70
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	1,634	1,190	775	403	436	472
	Mining Existing Supply						
	Groundwater	31	31	31	31	31	31
	Surface water	1,000	984	967	951	934	918
	Total Mining Supply	1,031	1,015	998	982	965	949
	Mining Balance	(603)	(175)	223	579	529	477
Agriculture	Irrigation Demand	582	582	582	582	568	563
	Irrigation Existing Supply						
	Groundwater	405	405	405	405	405	405
	Surface water	1,009	1,009	1,009	1,009	1,009	1,009
	Total Irrigation Supply	1,414	1,414	1,414	1,414	1,414	1,414
	Irrigation Balance	832	832	832	832	846	851
	Livestock Demand	1,184	1,184	1,184	1,184	1,184	1,184
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,184	1,184	1,184	1,184	1,184	1,184
	Total Livestock Supply	1,184	1,184	1,184	1,184	1,184	1,184
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	7,295	7,068	6,795	6,623	6,829	7,016
	Existing Municipal & Industrial Supply						
	Groundwater	76	81	86	91	96	101
	Surface water	8,277	8,011	7,964	7,910	7,848	7,784
	Total Municipal & Industrial Supply	8,354	8,093	8,051	8,001	7,944	7,885
	Municipal & Industrial Balance	1,059	1,025	1,256	1,378	1,115	869
	Agriculture Demand	1,766	1,766	1,766	1,766	1,752	1,747
	Existing Agricultural Supply						
	Groundwater	405	405	405	405	405	405
	Surface water	2,193	2,193	2,193	2,193	2,193	2,193
	Total Agriculture Supply	2,598	2,598	2,598	2,598	2,598	2,598
	Agriculture Balance	832	832	832	832	846	851
	Total Demand	9,061	8,834	8,561	8,389	8,581	8,763
	Total Supply						
	Groundwater	481	486	491	496	501	506
	Surface water	10,470	10,204	10,157	10,103	10,041	9,977
	Total Supply	10,952	10,691	10,649	10,599	10,542	10,483
	Total Balance	1,891	1,857	2,088	2,210	1,961	1,720

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-30. HILL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BRANDON-IRENE WSC						
Demand	256	262	265	273	281	287
Contractual Demand	29	31	32	33	34	35
Supply	376	395	390	385	379	372
Groundwater	169	169	169	169	169	169
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	207	226	221	216	210	203
SW Constrained Supply	207	226	221	216	210	203
Balance	91	102	93	79	64	50
HILL COUNTY-OTHER						
Demand	968	1,011	1,042	1,077	1,105	1,131
Contractual Demand	45	50	55	60	65	70
Supply	1,505	1,358	1,344	1,322	1,294	1,264
Groundwater	703	703	703	703	703	703
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	802	655	641	619	591	561
SW Constrained Supply	802	655	641	619	591	561
Balance	492	297	247	185	124	63
HILL COUNTY WSC						
Demand	425	444	457	473	486	497
Supply	852	872	872	872	872	872
Groundwater	642	642	642	642	642	642
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	210	230	230	230	230	230
SW Constrained Supply	210	230	230	230	230	230
Balance	427	428	415	399	386	375
FILES VALLEY WSC (P)						
Demand	405	419	428	441	453	463
Contractual Demand	420	420	420	420	420	420
Supply	1,208	1,321	1,321	1,321	1,321	1,321
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,208	1,321	1,321	1,321	1,321	1,321
SW Constrained Supply	1,208	1,321	1,321	1,321	1,321	1,321
Balance	383	482	473	460	448	438
HILLSBORO						
Demand	1,945	2,027	2,077	2,144	2,204	2,255
Contractual Demand	6	7	9	10	11	12
Supply	3,839	3,640	3,640	3,640	3,640	3,640
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,839	3,640	3,640	3,640	3,640	3,640
SW Constrained Supply	3,839	3,640	3,640	3,640	3,640	3,640
Balance	1,888	1,606	1,554	1,486	1,425	1,373

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-30 Continued. HILL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
HUBBARD						
Demand	151	153	152	158	162	166
Supply	180	128	120	114	105	97
Groundwater	29	29	29	29	29	29
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	151	99	91	85	76	68
SW Constrained Supply	151	--	--	--	--	--
Balance	29	(25)	(32)	(44)	(57)	(69)
ITASCA						
Demand	156	158	158	161	165	168
Supply	241	241	241	241	241	241
Groundwater	241	241	241	241	241	241
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	85	83	83	80	76	73
JOHNSON COUNTY SUD (P)						
Demand	29	29	30	31	32	33
Supply	91	88	85	80	77	75
Groundwater	11	11	11	11	11	11
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	89	85	82	77	74	72
SW Constrained Supply	80	77	73	68	66	63
Balance	62	59	55	49	45	42
PARKER WSC (P)						
Demand	32	33	33	34	35	36
Supply	39	39	39	39	39	39
Groundwater	18	18	18	18	18	18
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	22	22	22	22	22	22
SW Constrained Supply	22	22	22	22	22	22
Balance	7	6	6	5	4	3
WHITE BLUFF COMMUNITY WS						
Demand	434	458	474	491	505	517
Supply	600	600	600	600	600	600
Groundwater	600	600	600	600	600	600
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	166	142	126	109	95	83

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-30 Continued. HILL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
WHITNEY						
Demand	431	449	461	475	488	500
Supply	600	600	600	600	600	600
Groundwater	600	600	600	600	600	600
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	750	750	750	750	750	750
SW Constrained Supply	-	-	-	-	-	-
Balance	169	151	139	125	112	100
WOODROW-OSCEOLA WSC						
Demand	384	385	388	402	412	421
Supply	605	605	605	605	605	605
Groundwater	605	605	605	605	605	605
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	221	220	217	203	193	184

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-31
HOOD County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	61,316	71,099	78,111	84,147	88,785	92,339

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	7,434	8,642	9,573	10,293	10,919	11,471
	Contractual Demand	406	421	435	449	464	480
	Municipal Existing Supply						
	Groundwater	3,986	3,992	3,997	4,003	4,008	4,008
	Surface water (Less Contractual Demand)[1]	19,328	19,328	19,328	19,328	19,328	19,328
	Total Existing Municipal Supply	23,314	23,320	23,325	23,331	23,336	23,336
	Municipal Balance	15,880	14,678	13,752	13,038	12,417	11,865
Industrial	Manufacturing Demand	25	27	29	31	34	37
	Manufacturing Existing Supply						
	Groundwater	25	25	25	25	25	25
	Surface water	10,000	10,000	10,000	10,000	10,000	10,000
	Total Manufacturing Supply	10,025	10,025	10,025	10,025	10,025	10,025
	Manufacturing Balance	10,000	9,998	9,996	9,994	9,991	9,988
	Steam-Electric Demand	5,814	6,796	7,995	9,456	11,238	13,354
	Steam-Electric Existing Supply						
	Groundwater	150	150	150	150	150	150
	Surface water[2]	43,447	43,447	43,447	43,447	43,271	40,337
	Total Steam-Electric Supply	43,597	43,597	43,597	43,597	43,421	40,487
	Steam-Electric Balance	37,783	36,801	35,602	34,141	32,183	27,133
	Mining Demand	2,078	2,436	2,222	2,133	2,043	2,057
	Mining Existing Supply						
	Groundwater	1,224	1,224	1,224	1,224	1,224	1,224
	Surface water	0	0	0	0	0	0
	Total Mining Supply	1,224	1,224	1,224	1,224	1,224	1,224
	Mining Balance	(854)	(1,212)	(998)	(909)	(819)	(833)
Agriculture	Irrigation Demand	7,205	7,071	6,939	6,807	6,680	6,560
	Irrigation Existing Supply						
	Groundwater	3,470	3,470	3,470	3,470	3,470	3,470
	Surface water	4,460	4,460	4,460	4,461	4,461	4,461
	Total Irrigation Supply	7,930	7,930	7,930	7,931	7,931	7,931
	Irrigation Balance	725	859	991	1,124	1,251	1,371
	Livestock Demand	522	522	522	522	522	522
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	522	522	522	522	522	522
	Total Livestock Supply	522	522	522	522	522	522
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	15,351	17,901	19,819	21,913	24,234	26,919
	Existing Municipal & Industrial Supply						
	Groundwater	1,399	1,399	1,399	1,399	1,399	1,399
	Surface water	72,775	72,775	72,775	72,775	72,599	69,665
	Total Municipal & Industrial Supply	74,174	74,174	74,174	74,174	73,998	71,064
	Municipal & Industrial Balance	58,823	56,273	54,355	52,261	49,764	44,145
	Agriculture Demand	7,727	7,593	7,461	7,329	7,202	7,082
	Existing Agricultural Supply						
	Groundwater	3,470	3,470	3,470	3,470	3,470	3,470
	Surface water	4,982	4,982	4,982	4,983	4,983	4,983
	Total Agriculture Supply	8,452	8,452	8,452	8,453	8,453	8,453
	Agriculture Balance	725	859	991	1,124	1,251	1,371
	Total Demand	23,078	25,494	27,280	29,242	31,436	34,001
	Total Supply						
	Groundwater	4,869	4,869	4,869	4,869	4,869	4,869
	Surface water	77,757	77,757	77,757	77,758	77,582	74,648
	Total Supply	82,626	82,626	82,626	82,626	82,450	79,517
	Total Balance	59,548	57,132	55,346	53,384	51,014	45,516

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-32. HOOD COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ACTON MUD (P)						
Demand	2,862	4,460	5,497	6,024	6,631	7,308
Contractual Demand	335	335	335	335	335	335
Supply	7,507	7,507	7,507	7,507	7,507	7,507
Groundwater	1,460	1,460	1,460	1,460	1,460	1,460
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	7,252	7,252	7,252	7,252	7,252	7,252
SW Constrained Supply	6,048	6,048	6,048	6,048	6,048	6,048
Balance	4,310	2,712	1,675	1,148	541	(136)
HOOD COUNTY-OTHER						
Demand	2,823	2,184	1,903	1,933	1,819	1,588
Contractual Demand	71	86	100	114	129	145
Supply	1,926	1,926	1,926	1,926	1,926	1,926
Groundwater	1,591	1,591	1,591	1,591	1,591	1,591
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	676	676	676	676	676	676
SW Constrained Supply	335	335	335	335	335	335
Balance	(968)	(344)	(77)	(121)	(22)	193
CRESSON (P)						
Demand	56	76	89	101	111	118
Supply	65	71	76	81	87	86
Groundwater	65	71	76	81	87	86
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	9	(5)	(13)	(20)	(24)	(32)
GRANBURY						
Demand	1,216	1,432	1,586	1,725	1,837	1,925
Supply	2,106	2,106	2,106	2,083	2,083	2,083
Groundwater	706	706	706	706	706	706
GW Constrained Supply	NC	NC	723	683	683	683
Surface water	10,800	10,800	10,800	10,800	10,800	10,800
SW Constrained Supply	1,400	1,400	1,400	1,400	1,400	1,400
Balance	890	674	520	358	246	158
OAK TRAIL SHORES SUBDIVISION						
Demand	357	351	345	344	345	348
Supply	571	571	571	571	571	571
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	600	600	600	600	600	600
SW Constrained Supply	571	571	571	571	571	571
Balance	214	220	226	227	226	223

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-32 Continued. HOOD COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
TOLAR						
Demand	120	139	153	166	176	184
Supply	165	165	165	165	165	165
Groundwater	165	165	165	165	165	165
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	45	26	12	(1)	(11)	(19)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-33
JOHNSON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	173,835	200,573	228,160	258,414	291,047	325,967

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	26,011	29,428	33,068	37,582	42,478	47,698
	Contractual Demand	8,201	8,750	9,318	9,870	10,444	11,071
	Municipal Existing Supply						
	Groundwater	10,158	10,150	10,139	10,128	10,117	10,115
	Surface water (Less Contractual Demand)[1]	47,137	46,925	46,541	46,185	46,173	46,168
	Total Existing Municipal Supply	57,295	57,076	56,680	56,313	56,290	56,283
	Municipal Balance	31,284	27,648	23,612	18,731	13,812	8,585
Industrial	Manufacturing Demand	2,517	2,903	3,295	3,646	3,994	4,375
	Manufacturing Existing Supply						
	Groundwater	271	271	271	271	271	271
	Surface water	2,337	2,723	3,116	3,467	3,814	4,196
	Total Manufacturing Supply	2,608	2,994	3,387	3,738	4,085	4,467
	Manufacturing Balance	91	91	92	92	91	92
	Steam-Electric Demand	7,000	7,000	7,000	7,000	7,000	7,000
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	1,344	1,344	1,344	1,344	1,344	1,344
	Total Steam-Electric Supply	1,344	1,344	1,344	1,344	1,344	1,344
	Steam-Electric Balance	(5,656)	(5,656)	(5,656)	(5,656)	(5,656)	(5,656)
	Mining Demand	4,126	2,788	1,515	1,013	1,161	1,336
	Mining Existing Supply						
	Groundwater	2,842	2,842	2,842	2,842	2,842	2,842
	Surface water	20	20	20	20	20	20
	Total Mining Supply	2,862	2,862	2,862	2,862	2,862	2,862
	Mining Balance	(1,264)	74	1,347	1,849	1,701	1,526
Agriculture	Irrigation Demand	141	141	141	141	141	141
	Irrigation Existing Supply						
	Groundwater	97	97	97	97	97	97
	Surface water	202	199	196	193	190	187
	Total Irrigation Supply	298	295	293	290	287	284
	Irrigation Balance	157	154	152	149	146	143
	Livestock Demand	1,613	1,613	1,613	1,613	1,613	1,613
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,613	1,613	1,613	1,613	1,613	1,613
	Total Livestock Supply	1,613	1,613	1,613	1,613	1,613	1,613
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	39,654	42,119	44,878	49,241	54,633	60,409
	Existing Municipal & Industrial Supply						
	Groundwater	3,113	3,113	3,113	3,113	3,113	3,113
	Surface water	50,838	51,012	51,021	51,016	51,351	51,728
	Total Municipal & Industrial Supply	53,951	54,126	54,134	54,130	54,464	54,842
	Municipal & Industrial Balance	14,297	12,007	9,256	4,889	(169)	(5,567)
	Agriculture Demand	1,754	1,754	1,754	1,754	1,754	1,754
	Existing Agricultural Supply						
	Groundwater	97	97	97	97	97	97
	Surface water	1,815	1,812	1,809	1,806	1,803	1,800
	Total Agriculture Supply	1,911	1,908	1,906	1,903	1,900	1,897
	Agriculture Balance	157	154	152	149	146	143
	Total Demand	41,408	43,873	46,632	50,995	56,387	62,163
	Total Supply						
	Groundwater	3,210	3,210	3,210	3,210	3,210	3,210
	Surface water	52,652	52,824	52,830	52,822	53,154	53,528
	Total Supply	55,862	56,034	56,040	56,032	56,364	56,738
	Total Balance	14,454	12,161	9,408	5,037	(23)	(5,425)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

[2] Steam-Electric surface water supplies includes 1,344 acft from City of Cleburne reuse

C-34. JOHNSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ACTON MUD (P)						
Demand	56	76	98	122	149	177
Supply	153	153	153	153	153	153
Groundwater	30	30	30	30	30	30
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	148	148	148	148	148	148
SW Constrained Supply	123	123	123	123	123	123
Balance	97	77	55	31	4	(24)
ALVARADO						
Demand	456	493	536	589	653	722
Supply	2,551	2,551	2,551	2,551	2,551	2,551
Groundwater	310	310	310	310	310	310
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,241	2,241	2,241	2,241	2,241	2,241
SW Constrained Supply	2,241	2,241	2,241	2,241	2,241	2,241
Balance	2,095	2,058	2,015	1,962	1,898	1,829
BETHANY WSC						
Demand	367	396	430	472	524	581
Supply	1,554	1,554	1,554	1,554	1,554	1,554
Groundwater	433	433	433	433	433	433
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,120	1,120	1,120	1,120	1,120	1,120
SW Constrained Supply	1,120	1,120	1,120	1,120	1,120	1,120
Balance	1,187	1,158	1,124	1,082	1,030	973
BETHESDA WSC (P)						
Demand	3,259	3,679	4,126	4,641	5,218	5,841
Supply	2,321	2,393	2,434	2,521	2,617	2,704
Groundwater	1,442	1,442	1,442	1,442	1,442	1,442
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	879	952	992	1,079	1,175	1,262
SW Constrained Supply	879	952	992	1,079	1,175	1,262
Balance	(938)	(1,286)	(1,692)	(2,120)	(2,601)	(3,137)
BURLESON (P)						
Demand	5,315	6,333	7,298	7,920	8,782	9,855
Contractual Demand	2	2	2	2	2	2
Supply	3,875	3,875	3,875	3,875	3,875	3,875
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,875	3,875	3,875	3,875	3,875	3,875
SW Constrained Supply	3,875	3,875	3,875	3,875	3,875	3,875
Balance	(1,442)	(2,460)	(3,425)	(4,047)	(4,909)	(5,982)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-34 Continued. JOHNSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
CLEBURNE						
Demand	5,927	6,446	7,010	7,678	8,445	9,276
Contractual Demand	2,329	2,714	3,105	3,455	3,801	4,182
Supply	11,430	11,361	11,292	11,223	11,154	11,085
Groundwater	1,292	1,292	1,292	1,292	1,292	1,292
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	19,838	19,697	19,556	19,415	19,274	19,133
SW Constrained Supply	10,138	10,069	10,000	9,931	9,862	9,793
Balance	3,174	2,201	1,177	90	(1,092)	(2,373)
CRESSON (P)						
Demand	24	31	39	47	57	67
Supply	27	29	32	34	36	46
Groundwater	27	29	32	34	36	46
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	NC	NC	NC	NC
Balance	3	(2)	(7)	(13)	(21)	(21)
CROWLEY						
Demand	10	14	19	25	31	37
Supply	1	2	2	2	2	2
Groundwater	1	2	2	2	2	2
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(9)	(12)	(17)	(23)	(29)	(35)
JOHNSON COUNTY-OTHER						
Demand	1,613	1,529	1,534	1,391	1,377	1,391
Supply	1,700	1,700	1,700	1,700	1,700	1,700
Groundwater	1,262	1,262	1,262	1,262	1,262	1,262
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	438	438	438	438	438	438
SW Constrained Supply	438	438	438	438	438	438
Balance	87	171	166	309	323	309
FORT WORTH						
Demand	-	-	-	951	1,520	1,899
Supply	-	-	-	192	282	326
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	192	282	326
SW Constrained Supply	-	-	-	192	282	326
Balance	-	-	-	(759)	(1,238)	(1,573)

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-34 Continued. JOHNSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
GODLEY						
Demand	115	125	137	151	167	184
Supply	159	159	159	159	159	159
Groundwater	159	159	159	159	159	159
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	44	34	22	8	(8)	(25)
GRANDVIEW						
Demand	182	197	214	234	260	287
Supply	369	369	369	369	369	369
Groundwater	369	369	369	369	369	369
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	187	172	155	135	109	82
JOHNSON COUNTY SUD (P)						
Demand	4,808	5,379	5,999	6,728	7,557	8,457
Contractual Demand	5,870	6,034	6,211	6,413	6,641	6,887
Supply	15,579	15,033	14,405	13,548	13,120	12,743
Groundwater	1,950	1,950	1,950	1,950	1,950	1,950
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	15,080	14,535	13,906	13,050	12,621	12,245
SW Constrained Supply	13,628	13,083	12,454	11,598	11,170	10,793
Balance	4,900	3,620	2,194	407	(1,078)	(2,601)
JOSHUA						
Demand	951	1,115	1,292	1,494	1,722	1,968
Supply	951	1,115	1,292	1,494	1,722	1,968
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	951	1,115	1,292	1,494	1,722	1,968
SW Constrained Supply	951	1,115	1,292	1,494	1,722	1,968
Balance	-	(0)	-	-	-	-
KEENE						
Demand	487	564	648	741	842	949
Supply	1,541	1,541	1,541	1,541	1,541	1,468
Groundwater	421	421	421	421	421	421
GW Constrained Supply	NC	NC	NC	NC	NC	348
Surface water	1,120	1,120	1,120	1,120	1,120	1,120
SW Constrained Supply	1,120	1,120	1,120	1,120	1,120	1,120
Balance	1,054	977	893	800	699	519

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-34 Continued. JOHNSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
MANSFIELD						
Demand	721	1,024	1,337	1,681	2,055	2,455
Supply	678	880	1,044	1,191	1,317	1,431
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	678	880	1,044	1,191	1,317	1,431
SW Constrained Supply	678	--	--	--	--	--
Balance	(43)	(144)	(293)	(490)	(738)	(1,024)
MOUNTAIN PEAK SUD						
Demand	613	737	868	1,013	1,172	1,342
Supply	1,808	1,837	1,850	1,860	1,868	1,875
Groundwater	1,750	1,739	1,725	1,712	1,699	1,687
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	58	98	125	148	169	188
SW Constrained Supply	58	98	125	148	169	188
Balance	1,195	1,100	982	847	696	533
PARKER WSC (P)						
Demand	333	402	475	559	652	753
Supply	571	571	571	571	571	571
Groundwater	257	257	257	257	257	257
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	314	314	314	314	314	314
SW Constrained Supply	314	314	314	314	314	314
Balance	238	169	96	12	(81)	(182)
RIO VISTA						
Demand	150	178	207	241	279	320
Supply	249	249	249	249	249	249
Groundwater	249	249	249	249	249	249
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	99	71	42	8	(30)	(71)
VENUS (P)						
Demand	624	710	801	904	1,016	1,137
Supply	601	598	575	566	561	564
Groundwater	206	206	206	206	206	206
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	395	392	369	360	355	358
SW Constrained Supply	395	392	369	360	355	358
Balance	(23)	(112)	(226)	(338)	(455)	(573)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-35
JONES County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	21,424	22,676	23,558	24,312	24,937	25,446

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	3,354	3,447	3,502	3,581	3,665	3,739
	Contractual Demand	1,443	1,444	1,444	1,445	1,447	1,449
	Municipal Existing Supply						
	Groundwater	264	264	264	264	264	264
	Surface water (Less Contractual Demand)[1]	11,416	11,275	11,133	10,992	10,852	10,712
	Total Existing Municipal Supply	11,679	11,539	11,397	11,256	11,116	10,976
	Municipal Balance	8,325	8,092	7,895	7,675	7,451	7,237
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	44	44	44	44	44	44
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	44	44	44	44	44	44
	Manufacturing Balance	44	44	44	44	44	44
	Steam-Electric Demand	333	294	396	364	484	518
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	8,247	11,837	11,837	11,837	11,837	11,837
	Total Steam-Electric Supply	8,247	11,837	11,837	11,837	11,837	11,837
	Steam-Electric Balance	7,914	11,543	11,441	11,473	11,353	11,319
	Mining Demand	239	234	218	199	183	169
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(239)	(234)	(218)	(199)	(183)	(169)
Agriculture	Irrigation Demand	2,870	2,784	2,701	2,620	2,542	2,471
	Irrigation Existing Supply						
	Groundwater	2,610	2,610	2,610	2,610	2,610	2,610
	Surface water	674	660	646	632	618	604
	Total Irrigation Supply	3,284	3,270	3,256	3,242	3,228	3,214
	Irrigation Balance	414	486	555	622	686	743
	Livestock Demand	853	853	853	853	853	853
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	853	853	853	853	853	853
	Total Livestock Supply	853	853	853	853	853	853
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	3,926	3,975	4,116	4,144	4,332	4,426
	Existing Municipal & Industrial Supply						
	Groundwater	44	44	44	44	44	44
	Surface water	19,663	23,112	22,970	22,829	22,689	22,549
	Total Municipal & Industrial Supply	19,707	23,156	23,014	22,873	22,733	22,593
	Municipal & Industrial Balance	15,781	19,181	18,898	18,729	18,401	18,167
	Agriculture Demand	3,723	3,637	3,554	3,473	3,395	3,324
	Existing Agricultural Supply						
	Groundwater	2,610	2,610	2,610	2,610	2,610	2,610
	Surface water	1,527	1,513	1,499	1,485	1,471	1,457
	Total Agriculture Supply	4,137	4,123	4,109	4,095	4,081	4,067
	Agriculture Balance	414	486	555	622	686	743
	Total Demand	7,649	7,612	7,670	7,617	7,727	7,750
	Total Supply						
	Groundwater	2,654	2,654	2,654	2,654	2,654	2,654
	Surface water	21,190	24,625	24,469	24,314	24,160	24,006
	Total Supply	23,844	27,279	27,123	26,968	26,814	26,660
	Total Balance	16,195	19,667	19,453	19,351	19,087	18,910

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-36. JONES COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ABILENE (P)						
Demand	992	1,023	1,041	1,062	1,087	1,109
Supply	1,495	852	844	837	829	822
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,583	1,560	1,536	1,513	1,490	1,467
SW Constrained Supply	1,495	852	844	837	829	822
Balance	503	(171)	(197)	(225)	(258)	(287)
ANSON						
Demand	367	375	378	388	397	405
Contractual Demand	1,117	1,117	1,117	1,117	1,117	1,117
Supply	2,128	2,128	2,128	2,128	2,128	2,128
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,602	2,602	2,602	2,602	2,602	2,602
SW Constrained Supply	2,128	2,128	2,128	2,128	2,128	2,128
Balance	644	636	633	623	614	606
JONES COUNTY-OTHER						
Demand	279	289	296	303	310	316
Supply	353	353	353	353	353	353
Groundwater	264	264	264	264	264	264
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	89	89	89	89	89	89
SW Constrained Supply	89	89	89	89	89	89
Balance	74	64	57	50	43	37
HAMLIN						
Demand	424	436	445	458	469	478
Contractual Demand	2	2	2	2	2	2
Supply	767	767	767	767	767	767
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,017	1,017	1,017	1,017	1,017	1,017
SW Constrained Supply	767	767	767	767	767	767
Balance	341	329	320	307	296	287
HAWLEY						
Demand	75	76	76	77	79	81
Supply	75	76	76	77	79	81
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	75	76	76	77	79	81
SW Constrained Supply	75	76	76	77	79	81
Balance	-	(0)	(0)	-	-	-

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-36 Continued. JONES COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
HAWLEY WSC (P)						
Demand	383	383	381	383	391	399
Contractual Demand	75	76	76	77	79	81
Supply	595	595	595	595	595	595
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	595	595	595	595	595	595
SW Constrained Supply	595	595	595	595	595	595
Balance	137	136	138	135	125	115
STAMFORD (P)						
Demand	834	865	885	910	932	951
Contractual Demand	249	249	249	249	249	249
Supply	1,444	1,444	1,444	1,444	1,444	1,444
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,455	5,336	5,217	5,098	4,980	4,861
SW Constrained Supply	1,444	1,444	1,444	1,444	1,444	1,444
Balance	361	330	310	285	263	244

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-37
KENT County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	798	816	816	816	816	816

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	125	123	121	121	120	120
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	294	294	294	294	294	294
	Surface water (Less Contractual Demand)[1]	0	0	0	0	0	0
	Total Existing Municipal Supply	294	294	294	294	294	294
	Municipal Balance	169	171	173	173	174	174
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	38	38	35	32	29	26
	Mining Existing Supply						
	Groundwater	459	459	459	459	459	459
	Surface water	0	0	0	0	0	0
	Total Mining Supply	459	459	459	459	459	459
	Mining Balance	421	421	424	427	430	433
Agriculture	Irrigation Demand	1,235	1,198	1,166	1,134	1,102	1,073
	Irrigation Existing Supply						
	Groundwater	1,444	1,444	1,444	1,444	1,444	1,444
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	1,444	1,444	1,444	1,444	1,444	1,444
	Irrigation Balance	209	246	278	310	342	371
	Livestock Demand	320	320	320	320	320	320
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	320	320	320	320	320	320
	Total Livestock Supply	320	320	320	320	320	320
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	163	161	156	153	149	146
	Existing Municipal & Industrial Supply						
	Groundwater	459	459	459	459	459	459
	Surface water	0	0	0	0	0	0
	Total Municipal & Industrial Supply	459	459	459	459	459	459
	Municipal & Industrial Balance	296	298	303	306	310	313
	Agriculture Demand	1,555	1,518	1,486	1,454	1,422	1,393
	Existing Agricultural Supply						
	Groundwater	1,444	1,444	1,444	1,444	1,444	1,444
	Surface water	320	320	320	320	320	320
	Total Agriculture Supply	1,764	1,764	1,764	1,764	1,764	1,764
	Agriculture Balance	209	246	278	310	342	371
	Total Demand	1,718	1,679	1,642	1,607	1,571	1,539
	Total Supply						
	Groundwater	1,903	1,903	1,903	1,903	1,903	1,903
	Surface water	320	320	320	320	320	320
	Total Supply	2,223	2,223	2,223	2,223	2,223	2,223
	Total Balance	505	544	581	616	652	684

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-38. KENT COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
KENT COUNTY-OTHER						
Demand	33	32	32	32	32	32
Supply	45	45	45	45	45	45
Groundwater	45	45	45	45	45	45
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	12	13	13	13	13	13
JAYTON						
Demand	92	91	89	89	88	88
Supply	-	-	-	-	-	-
Groundwater	249	249	249	249	249	249
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(92)	(91)	(89)	(89)	(88)	(88)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-39
KNOX County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	3,847	4,003	4,086	4,183	4,260	4,325

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	636	639	642	656	666	676
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	121	121	121	121	121	121
	Surface water (Less Contractual Demand)[1]	511	430	349	269	188	107
	Total Existing Municipal Supply	632	551	470	390	309	228
	Municipal Balance	(4)	(88)	(172)	(266)	(357)	(448)
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	15	15	14	14	14	14
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(15)	(15)	(14)	(14)	(14)	(14)
Agriculture	Irrigation Demand	41,033	40,025	39,041	38,082	37,147	36,278
	Irrigation Existing Supply						
	Groundwater	37,752	34,368	30,412	28,693	31,103	31,103
	Surface water	160	142	124	106	88	70
	Total Irrigation Supply	37,912	34,510	30,536	28,799	31,191	31,173
	Irrigation Balance	(3,121)	(5,515)	(8,505)	(9,283)	(5,956)	(5,105)
	Livestock Demand	987	987	987	987	987	987
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	987	987	987	987	987	987
	Total Livestock Supply	987	987	987	987	987	987
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	651	654	656	670	680	690
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	511	430	349	269	188	107
	Total Municipal & Industrial Supply	511	430	349	269	188	107
	Municipal & Industrial Balance	(140)	(224)	(307)	(401)	(492)	(583)
	Agriculture Demand	42,020	41,012	40,028	39,069	38,134	37,265
	Existing Agricultural Supply						
	Groundwater	37,752	34,368	30,412	28,693	31,103	31,103
	Surface water	1,147	1,129	1,111	1,093	1,075	1,057
	Total Agriculture Supply	38,899	35,497	31,523	29,786	32,178	32,160
	Agriculture Balance	(3,121)	(5,515)	(8,505)	(9,283)	(5,956)	(5,105)
	Total Demand	42,671	41,666	40,684	39,739	38,814	37,955
	Total Supply						
	Groundwater	37,752	34,368	30,412	28,693	31,103	31,103
	Surface water	1,658	1,559	1,460	1,362	1,263	1,164
	Total Supply	39,409	35,927	31,872	30,054	32,366	32,267
	Total Balance	(3,262)	(5,739)	(8,812)	(9,685)	(6,448)	(5,688)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-40. KNOX COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
KNOX COUNTY-OTHER						
Demand	138	135	134	137	139	141
Supply	237	221	205	189	173	157
Groundwater	108	108	108	108	108	108
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	129	113	97	81	65	49
SW Constrained Supply	129	113	97	81	65	49
Balance	99	86	71	52	34	16
KNOX CITY						
Demand	242	245	248	253	257	261
Supply	194	162	130	99	67	35
Groundwater	6	6	6	6	6	6
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	188	156	124	93	61	29
SW Constrained Supply	188	156	124	93	61	29
Balance	(48)	(83)	(118)	(154)	(190)	(226)
MUNDAY						
Demand	256	259	260	266	270	274
Supply	201	168	135	102	70	37
Groundwater	7	7	7	7	7	7
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	194	161	128	95	63	30
SW Constrained Supply	194	161	128	95	63	30
Balance	(55)	(91)	(125)	(164)	(200)	(237)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-41
LAMPASAS County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	21,800	24,100	25,874	27,689	29,296	30,741

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	3,556	3,833	4,044	4,286	4,518	4,735
	Contractual Demand	2,073	2,101	2,130	2,159	2,190	2,220
	Municipal Existing Supply						
	Groundwater	390	390	390	390	390	390
	Surface water (Less Contractual Demand)[1]	6,802	6,725	6,702	6,473	6,467	6,486
	Total Existing Municipal Supply	7,192	7,115	7,092	6,863	6,857	6,876
	Municipal Balance	3,636	3,282	3,048	2,577	2,339	2,141
Industrial	Manufacturing Demand	185	199	213	226	243	261
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	185	199	213	226	243	261
	Total Manufacturing Supply	185	199	213	226	243	261
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	198	221	241	261	286	313
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	25	25	25	25	25	25
	Total Mining Supply	25	25	25	25	25	25
	Mining Balance	(173)	(196)	(216)	(236)	(261)	(288)
Agriculture	Irrigation Demand	387	382	377	372	370	366
	Irrigation Existing Supply						
	Groundwater	64	64	64	64	64	64
	Surface water	103	103	103	103	103	103
	Total Irrigation Supply	166	166	166	166	166	166
	Irrigation Balance	(221)	(216)	(211)	(206)	(204)	(200)
	Livestock Demand	1,232	1,232	1,232	1,232	1,232	1,232
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,232	1,232	1,232	1,232	1,232	1,232
	Total Livestock Supply	1,232	1,232	1,232	1,232	1,232	1,232
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	3,939	4,253	4,498	4,773	5,047	5,309
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	7,012	6,949	6,940	6,724	6,735	6,772
	Total Municipal & Industrial Supply	7,012	6,949	6,940	6,724	6,735	6,772
	Municipal & Industrial Balance	3,073	2,696	2,442	1,951	1,688	1,463
	Agriculture Demand	1,619	1,614	1,609	1,604	1,602	1,598
	Existing Agricultural Supply						
	Groundwater	64	64	64	64	64	64
	Surface water	1,335	1,335	1,335	1,335	1,335	1,335
	Total Agriculture Supply	1,398	1,398	1,398	1,398	1,398	1,398
	Agriculture Balance	(221)	(216)	(211)	(206)	(204)	(200)
	Total Demand	5,558	5,867	6,107	6,377	6,649	6,907
	Total Supply						
	Groundwater	64	64	64	64	64	64
	Surface water	8,346	8,284	8,275	8,059	8,069	8,106
	Total Supply	8,410	8,348	8,339	8,122	8,133	8,170
	Total Balance	2,852	2,481	2,232	1,745	1,484	1,263

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-42. LAMPASAS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
COPPERAS COVE (P)						
Demand	126	182	222	265	304	340
Supply	390	388	385	365	361	353
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	390	388	385	365	361	353
SW Constrained Supply	390	388	385	365	361	353
Balance	264	206	163	100	57	13
LAMPASAS COUNTY-OTHER						
Demand	317	292	275	256	240	227
Supply	377	377	377	377	377	377
Groundwater	377	377	377	377	377	377
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	60	85	102	121	137	150
KEMPNER						
Demand	202	219	231	246	259	272
Supply	195	209	225	240	254	267
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	195	209	225	240	254	267
SW Constrained Supply	195	209	225	240	254	267
Balance	(7)	(10)	(6)	(6)	(5)	(5)
KEMPNER WSC (P)						
Demand	1,539	1,669	1,770	1,882	1,987	2,084
Contractual Demand	1,936	1,950	1,965	1,981	1,995	2,007
Supply	2,383	2,383	2,383	2,383	2,383	2,383
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,898	2,821	2,794	2,649	2,613	2,556
SW Constrained Supply	2,383	2,383	2,383	2,383	2,383	2,383
Balance	(1,092)	(1,236)	(1,352)	(1,480)	(1,599)	(1,709)
LAMPASAS						
Demand	1,193	1,278	1,343	1,421	1,500	1,573
Contractual Demand	137	151	165	178	195	213
Supply	1,281	1,281	1,281	1,281	1,281	1,281
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,152	3,127	3,109	3,015	3,023	3,083
SW Constrained Supply	1,281	1,281	1,281	1,281	1,281	1,281
Balance	(49)	(148)	(227)	(318)	(414)	(505)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-42 Continued. LAMPASAS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
LOMETA						
Demand	179	193	203	216	228	239
Supply	179	193	203	216	228	239
Groundwater	13	13	13	13	13	13
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	166	180	190	203	215	226
SW Constrained Supply	166	--	--	--	--	--
Balance	-	-	-	-	-	-

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-43
LEE County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	19,131	21,511	22,877	23,375	23,709	23,889

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	2,979	3,258	3,410	3,458	3,499	3,525
	Contractual Demand	13	14	15	16	17	18
	Municipal Existing Supply						
	Groundwater	6,187	6,215	6,229	6,235	6,245	6,249
	Surface water (Less Contractual Demand)[1]	0	0	0	0	0	0
	Total Existing Municipal Supply	6,187	6,215	6,229	6,235	6,245	6,249
	Municipal Balance	3,208	2,957	2,819	2,777	2,746	2,724
Industrial	Manufacturing Demand	13	14	15	16	17	18
	Manufacturing Existing Supply						
	Groundwater	13	14	15	16	17	18
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	13	14	15	16	17	18
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	3,180	7,289	7,767	8,304	8,904	9,631
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(3,180)	(7,289)	(7,767)	(8,304)	(8,904)	(9,631)
Agriculture	Irrigation Demand	459	446	434	421	409	398
	Irrigation Existing Supply						
	Groundwater	476	476	476	476	476	476
	Surface water	20	20	20	20	20	20
	Total Irrigation Supply	496	496	496	496	496	496
	Irrigation Balance	37	50	62	75	87	98
	Livestock Demand	1,935	1,935	1,935	1,935	1,935	1,935
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,935	1,935	1,935	1,935	1,935	1,935
	Total Livestock Supply	1,935	1,935	1,935	1,935	1,935	1,935
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	6,172	10,561	11,192	11,778	12,420	13,174
	Existing Municipal & Industrial Supply						
	Groundwater	13	14	15	16	17	18
	Surface water	0	0	0	0	0	0
	Total Municipal & Industrial Supply	13	14	15	16	17	18
	Municipal & Industrial Balance	(6,159)	(10,547)	(11,177)	(11,762)	(12,403)	(13,156)
	Agriculture Demand	2,394	2,381	2,369	2,356	2,344	2,333
	Existing Agricultural Supply						
	Groundwater	476	476	476	476	476	476
	Surface water	1,955	1,955	1,955	1,955	1,955	1,955
	Total Agriculture Supply	2,431	2,431	2,431	2,431	2,431	2,431
	Agriculture Balance	37	50	62	75	87	98
	Total Demand	8,566	12,942	13,561	14,134	14,764	15,507
	Total Supply						
	Groundwater	489	490	491	492	493	494
	Surface water	1,955	1,955	1,955	1,955	1,955	1,955
	Total Supply	2,444	2,445	2,446	2,447	2,448	2,449
	Total Balance	(6,122)	(10,497)	(11,115)	(11,687)	(12,316)	(13,058)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-44. LEE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
AQUA WSC						
Demand	466	511	536	544	551	555
Supply	466	511	536	544	551	555
Groundwater	466	511	536	544	551	555
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	-	-	-	-	-	-
LEE COUNTY-OTHER						
Demand	195	207	218	222	224	226
Supply	226	226	226	226	226	226
Groundwater	226	226	226	226	226	226
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	31	19	8	4	2	-
GIDDINGS						
Demand	1,120	1,231	1,289	1,307	1,324	1,334
Contractual Demand	13	14	15	16	17	18
Supply	1,747	1,747	1,747	1,747	1,747	1,747
Groundwater	1,747	1,747	1,747	1,747	1,747	1,747
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	614	502	443	424	406	395
LEE COUNTY WSC (P)						
Demand	908	991	1,035	1,048	1,060	1,067
Supply	3,014	3,001	2,997	2,989	2,989	2,989
Groundwater	3,014	3,001	2,997	2,989	2,989	2,989
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	2,106	2,010	1,962	1,941	1,929	1,922
LEXINGTON						
Demand	242	265	277	281	284	286
Supply	667	667	667	667	667	667
Groundwater	667	667	667	667	667	667
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	425	402	390	386	383	381

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-44 Continued. LEE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
SOUTHWEST MILAM WSC (P)						
Demand	48	53	55	56	56	57
Supply	68	63	56	62	65	65
Groundwater	68	63	56	62	65	65
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	20	10	1	6	9	8

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-45
LIMESTONE County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	25,136	26,615	27,817	29,134	30,206	31,152

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	2,548	2,602	2,645	2,720	2,800	2,878
	Contractual Demand	475	485	493	500	510	519
	Municipal Existing Supply						
	Groundwater	966	966	966	966	966	966
	Surface water (Less Contractual Demand)[1]	3,421	3,260	3,151	3,039	2,924	2,807
	Total Existing Municipal Supply	4,387	4,226	4,117	4,005	3,890	3,773
	Municipal Balance	1,839	1,624	1,472	1,285	1,090	895
Industrial	Manufacturing Demand	93	102	111	118	127	137
	Manufacturing Existing Supply						
	Groundwater	50	59	67	74	83	92
	Surface water	68	67	64	62	61	58
	Total Manufacturing Supply	118	126	131	136	144	150
	Manufacturing Balance	25	24	20	18	17	13
	Steam-Electric Demand	22,598	26,420	31,079	36,758	43,681	52,033
	Steam-Electric Existing Supply						
	Groundwater	839	839	839	839	839	839
	Surface water[2]	21,837	21,530	21,223	20,916	20,609	20,302
	Total Steam-Electric Supply	22,676	22,369	22,062	21,755	21,447	21,140
	Steam-Electric Balance	78	(4,051)	(9,017)	(15,003)	(22,234)	(30,893)
	Mining Demand	10,317	9,925	9,865	10,339	10,805	11,425
	Mining Existing Supply						
	Groundwater	810	810	810	810	810	810
	Surface water	0	0	0	0	0	0
	Total Mining Supply	810	810	810	810	810	810
	Mining Balance	(9,508)	(9,116)	(9,056)	(9,530)	(9,996)	(10,616)
Agriculture	Irrigation Demand	0	0	0	0	0	0
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	14	14	14	14	14	14
	Total Irrigation Supply	14	14	14	14	14	14
	Irrigation Balance	14	14	14	14	14	14
	Livestock Demand	1,704	1,704	1,704	1,704	1,704	1,704
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,704	1,704	1,704	1,704	1,704	1,704
	Total Livestock Supply	1,704	1,704	1,704	1,704	1,704	1,704
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	35,556	39,049	43,700	49,935	57,413	66,473
	Existing Municipal & Industrial Supply						
	Groundwater	1,698	1,707	1,715	1,722	1,731	1,740
	Surface water	25,326	24,857	24,438	24,017	23,593	23,167
	Total Municipal & Industrial Supply	27,024	26,564	26,153	25,739	25,325	24,907
	Municipal & Industrial Balance	(8,532)	(12,485)	(17,547)	(24,196)	(32,088)	(41,566)
	Agriculture Demand	1,704	1,704	1,704	1,704	1,704	1,704
	Existing Agricultural Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,718	1,718	1,718	1,718	1,718	1,718
	Total Agriculture Supply	1,718	1,718	1,718	1,718	1,718	1,718
	Agriculture Balance	14	14	14	14	14	14
	Total Demand	37,260	40,753	45,404	51,639	59,117	68,177
	Total Supply						
	Groundwater	1,698	1,707	1,715	1,722	1,731	1,740
	Surface water	27,044	26,575	26,156	25,735	25,311	24,885
	Total Supply	28,742	28,282	27,871	27,457	27,043	26,625
	Total Balance	(8,518)	(12,471)	(17,533)	(24,182)	(32,074)	(41,552)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-46. LIMESTONE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
COOLIDGE						
Demand	180	195	207	222	235	247
Contractual Demand	50	59	67	74	83	92
Supply	301	242	236	226	213	199
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	301	242	236	226	213	199
SW Constrained Supply	301	242	236	226	213	199
Balance	71	(12)	(38)	(70)	(105)	(140)
LIMESTONE COUNTY-OTHER						
Demand	892	878	867	871	886	902
Contractual Demand	7	7	7	7	7	7
Supply	1,295	1,284	1,273	1,262	1,250	1,239
Groundwater	580	580	580	580	580	580
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	715	704	693	682	670	659
SW Constrained Supply	715	704	693	682	670	659
Balance	396	399	399	384	357	330
GROESBECK						
Demand	688	677	668	665	668	672
Supply	0	0	0	0	0	0
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	0	0	0	0	0	0
SW Constrained Supply	0	0	0	0	0	0
Balance	(688)	(677)	(668)	(665)	(668)	(672)
MART (P)						
Demand	1	2	2	2	2	3
Supply	1	1	1	1	1	1
Groundwater	1	1	1	1	1	1
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	0	(1)	(1)	(1)	(1)	(2)
MEXIA						
Demand	581	648	702	762	810	853
Contractual Demand	418	419	419	419	420	420
Supply	2,405	2,314	2,223	2,131	2,040	1,949
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,405	2,314	2,223	2,131	2,040	1,949
SW Constrained Supply	2,405	2,314	2,223	2,131	2,040	1,949
Balance	1,406	1,247	1,102	950	810	676

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-46 Continued. LIMESTONE COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
THORNTON						
Demand	70	68	66	65	65	65
Supply	272	272	272	272	272	272
Groundwater	272	272	272	272	272	272
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	202	204	206	207	207	207
TRI-COUNTY SUD (P)						
Demand	136	134	133	133	134	136
Supply	113	113	113	113	113	113
Groundwater	113	113	113	113	113	113
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(23)	(21)	(20)	(20)	(21)	(23)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-47
MCLENNAN County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	252,211	272,216	289,887	307,661	325,373	342,757

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	51,013	54,030	56,768	59,888	63,349	66,821
	Contractual Demand	7,449	8,246	9,139	10,071	10,975	11,996
	Municipal Existing Supply						
	Groundwater	15,536	15,541	15,543	15,547	15,551	15,554
	Surface water (Less Contractual Demand)[1]	103,291	103,698	104,194	104,609	105,128	105,593
	Total Existing Municipal Supply	118,828	119,239	119,738	120,155	120,678	121,147
	Municipal Balance	67,815	65,209	62,970	60,267	57,329	54,326
Industrial	Manufacturing Demand	5,087	5,724	6,373	6,955	7,532	8,157
	Manufacturing Existing Supply						
	Groundwater	913	913	913	913	913	913
	Surface water	2,510	2,895	3,256	3,625	3,955	4,410
	Total Manufacturing Supply	3,423	3,808	4,169	4,538	4,868	5,323
	Manufacturing Balance	(1,664)	(1,916)	(2,204)	(2,417)	(2,664)	(2,834)
	Steam-Electric Demand	6,990	8,914	9,683	11,155	11,929	12,756
	Steam-Electric Existing Supply						
	Groundwater	178	178	178	178	178	178
	Surface water[2]	29,743	29,736	29,729	29,721	29,714	29,707
	Total Steam-Electric Supply	29,921	29,914	29,907	29,899	29,892	29,885
	Steam-Electric Balance	22,931	21,000	20,224	18,744	17,963	17,129
	Mining Demand	2,538	3,000	3,060	3,508	3,832	4,216
	Mining Existing Supply						
	Groundwater	274	274	274	274	274	274
	Surface water	0	0	0	0	0	0
	Total Mining Supply	274	274	274	274	274	274
	Mining Balance	(2,264)	(2,726)	(2,786)	(3,234)	(3,558)	(3,942)
Agriculture	Irrigation Demand	4,880	4,877	4,872	4,867	4,862	4,858
	Irrigation Existing Supply						
	Groundwater	1,158	1,158	1,158	1,158	1,158	1,158
	Surface water	1,424	1,406	1,389	1,372	1,354	1,337
	Total Irrigation Supply	2,581	2,564	2,547	2,529	2,512	2,495
	Irrigation Balance	(2,299)	(2,313)	(2,325)	(2,338)	(2,350)	(2,363)
	Livestock Demand	1,584	1,584	1,584	1,584	1,584	1,584
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,584	1,584	1,584	1,584	1,584	1,584
	Total Livestock Supply	1,584	1,584	1,584	1,584	1,584	1,584
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	65,628	71,668	75,884	81,506	86,642	91,950
	Existing Municipal & Industrial Supply						
	Groundwater	1,365	1,365	1,365	1,365	1,365	1,365
	Surface water	135,544	136,329	137,179	137,955	138,797	139,710
	Total Municipal & Industrial Supply	136,909	137,694	138,544	139,320	140,162	141,075
	Municipal & Industrial Balance	71,281	66,026	62,660	57,814	53,520	49,125
	Agriculture Demand	6,464	6,461	6,456	6,451	6,446	6,442
	Existing Agricultural Supply						
	Groundwater	1,158	1,158	1,158	1,158	1,158	1,158
	Surface water	3,008	2,990	2,973	2,956	2,938	2,921
	Total Agriculture Supply	4,165	4,148	4,131	4,113	4,096	4,079
	Agriculture Balance	(2,299)	(2,313)	(2,325)	(2,338)	(2,350)	(2,363)
	Total Demand	72,092	78,129	82,340	87,957	93,088	98,392
	Total Supply						
	Groundwater	2,523	2,523	2,523	2,523	2,523	2,523
	Surface water	138,552	139,319	140,152	140,911	141,735	142,631
	Total Supply	141,074	141,842	142,675	143,433	144,258	145,154
	Total Balance	68,982	63,713	60,335	55,476	51,170	46,762

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

[2] Steam-Electric surface water supplies includes 16,000 acft from WMARSS reuse

C-48. MCLENNAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BELLMEAD						
Demand	1,241	1,269	1,296	1,339	1,397	1,457
Supply	1,502	1,502	1,502	1,502	1,502	1,502
Groundwater	1,502	1,502	1,502	1,502	1,502	1,502
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	261	233	206	163	105	45
BEVERLY HILLS						
Demand	252	261	268	281	297	312
Supply	252	261	268	281	297	312
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	252	261	268	281	297	312
SW Constrained Supply	252	261	268	281	297	312
Balance	-	-	-	-	(0)	-
BRUCEVILLE-EDDY (P)						
Demand	292	307	322	338	357	376
Supply	1,373	1,368	1,359	1,334	1,322	1,302
Groundwater	438	438	438	438	438	438
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	935	931	922	896	884	865
SW Constrained Supply	935	931	922	896	884	865
Balance	1,081	1,061	1,037	996	965	926
CHALK BLUFF WSC						
Demand	269	258	249	245	244	244
Supply	715	715	715	715	715	715
Groundwater	715	715	715	715	715	715
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	446	457	466	470	471	471
CORYELL CITY WATER SUPPLY DISTRICT (P)						
Demand	125	147	166	186	207	227
Supply	158	181	203	221	242	261
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	158	181	203	221	242	261
SW Constrained Supply	158	181	203	221	242	261
Balance	33	34	37	35	35	34

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-48 Continued. MCLENNAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
MCLENNAN COUNTY-OTHER						
Demand	3,533	3,409	3,306	3,249	3,236	3,233
Contractual Demand	210	213	216	221	226	231
Supply	3,827	3,826	3,823	3,814	3,811	3,804
Groundwater	2,799	2,799	2,799	2,799	2,799	2,799
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,028	1,027	1,024	1,015	1,012	1,005
SW Constrained Supply	1,028	1,027	1,024	1,015	1,012	1,005
Balance	84	204	301	344	349	340
CRAWFORD						
Demand	149	147	147	147	149	151
Supply	144	144	144	144	144	144
Groundwater	143	143	143	143	143	143
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1	1	1	1	1	1
SW Constrained Supply	1	--	NC	NC	NC	NC
Balance	(5)	(3)	(3)	(3)	(5)	(7)
CROSS COUNTRY WSC (P)						
Demand	409	406	403	405	409	413
Supply	486	486	486	416	416	416
Groundwater	486	486	486	486	486	486
GW Constrained Supply	NC	NC	NC	416	416	416
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	77	80	83	11	7	3
ELM CREEK WSC (P)						
Demand	200	221	241	262	285	308
Supply	251	250	247	241	237	232
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	251	250	247	241	237	232
SW Constrained Supply	251	250	247	241	237	232
Balance	51	29	6	(21)	(48)	(76)
GHOLSON						
Demand	155	167	178	190	204	218
Supply	927	927	927	927	927	927
Groundwater	927	927	927	927	927	927
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	772	760	749	737	723	709

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-48 Continued. MCLENNAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
GOLINDA (P)						
Demand	19	24	28	32	36	40
Supply	23	27	30	33	37	40
Groundwater	23	27	30	33	37	40
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	4	3	2	1	1	--
HALLSBURG						
Demand	81	84	87	92	97	102
Supply	81	84	87	92	97	102
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	81	84	87	92	97	102
SW Constrained Supply	81	--	--	--	--	--
Balance	-	-	-	-	-	-
HEWITT						
Demand	2,711	3,036	3,329	3,643	3,975	4,305
Supply	2,624	2,799	3,118	3,439	3,759	4,074
Groundwater	2,241	2,241	2,241	2,241	2,241	2,241
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	383	558	877	1,198	1,519	1,833
SW Constrained Supply	383	558	877	1,198	1,519	1,833
Balance	(87)	(237)	(211)	(204)	(216)	(231)
LACY-LAKEVIEW						
Demand	772	817	859	908	966	1,025
Supply	1,120	1,120	1,120	1,120	1,120	1,120
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,120	1,120	1,120	1,120	1,120	1,120
SW Constrained Supply	1,120	1,120	1,120	1,120	1,120	1,120
Balance	348	303	261	212	154	95
LORENA						
Demand	309	339	367	396	429	461
Supply	462	462	462	462	462	462
Groundwater	322	322	322	322	322	322
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,140	1,140	1,140	1,140	1,140	1,140
SW Constrained Supply	140	140	140	140	140	140
Balance	153	123	95	66	33	1

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-48 Continued. MCLENNAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
MART (P)						
Demand	352	368	383	401	423	445
Supply	202	202	202	202	202	202
Groundwater	202	202	202	202	202	202
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	(150)	(166)	(181)	(199)	(221)	(243)
MCGREGOR						
Demand	796	808	820	840	869	899
Supply	2,862	2,849	2,824	2,745	2,711	2,658
Groundwater	402	402	402	402	402	402
GW Constrained Supply	293	293	293	293	293	293
Surface water	2,569	2,556	2,531	2,451	2,418	2,365
SW Constrained Supply	2,569	2,556	2,531	2,451	2,418	2,365
Balance	2,066	2,041	2,004	1,905	1,842	1,759
MOODY						
Demand	189	196	202	211	223	235
Supply	612	610	606	595	590	582
Groundwater	211	211	211	211	211	211
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	401	399	395	384	379	371
SW Constrained Supply	401	399	395	384	379	371
Balance	423	414	404	384	367	347
NORTH BOSQUE WSC						
Demand	619	751	870	990	1,112	1,233
Supply	605	605	605	605	605	605
Groundwater	605	605	605	605	605	605
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(14)	(146)	(265)	(385)	(507)	(628)
RIESEL						
Demand	136	136	136	137	140	144
Supply	125	125	125	125	125	125
Groundwater	125	125	125	125	125	125
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(11)	(11)	(11)	(12)	(15)	(19)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-48 Continued. MCLENNAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ROBINSON						
Demand	2,437	2,855	3,229	3,618	4,020	4,418
Contractual Demand	140	140	140	140	140	140
Supply	2,649	2,649	2,649	2,649	2,649	2,649
Groundwater	963	963	963	963	963	963
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	6,581	6,581	6,581	6,581	6,581	6,581
SW Constrained Supply	1,686	1,686	1,686	1,686	1,686	1,686
Balance	72	(346)	(720)	(1,109)	(1,511)	(1,909)
TRI-COUNTY SUD (P)						
Demand	21	23	25	28	31	33
Supply	23	23	23	23	23	23
Groundwater	23	23	23	23	23	23
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	NC	NC	NC	NC
Balance	2	(0)	(2)	(5)	(8)	(10)
VALLEY MILLS (P)						
Demand	5	7	8	10	11	13
Supply	12	12	12	12	12	12
Groundwater	12	12	12	12	12	12
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	7	5	4	2	1	(1)
WACO						
Demand	31,576	33,377	35,005	36,840	38,861	40,887
Contractual Demand	7,097	7,891	8,781	9,708	10,607	11,623
Supply	51,162	51,162	51,162	51,162	51,162	51,162
Groundwater	762	762	762	762	762	762
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	85,477	85,477	85,477	85,477	85,477	85,477
SW Constrained Supply	50,400	50,400	50,400	50,400	50,400	50,400
Balance	12,490	9,894	7,377	4,615	1,694	(1,348)
WEST						
Demand	490	495	500	509	523	538
Supply	1,388	1,388	1,388	1,388	1,388	1,388
Groundwater	268	268	268	268	268	268
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,120	1,120	1,120	1,120	1,120	1,120
SW Constrained Supply	1,120	1,120	1,120	1,120	1,120	1,120
Balance	898	893	888	879	865	850

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-48 Continued. MCLENNAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
WEST BRAZOS WSC (P)						
Demand	186	193	201	212	224	236
Supply	138	138	138	138	138	138
Groundwater	138	138	138	138	138	138
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	(48)	(55)	(63)	(74)	(86)	(98)
WESTERN HILLS WS						
Demand	212	226	238	250	262	274
Supply	544	544	544	544	544	544
Groundwater	544	544	544	544	544	544
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	332	318	306	294	282	270
WOODWAY						
Demand	3,477	3,703	3,905	4,129	4,362	4,594
Contractual Demand	2	2	2	2	2	2
Supply	3,479	3,698	3,887	4,074	4,290	4,493
Groundwater	1,686	1,686	1,686	1,686	1,686	1,686
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,793	2,013	2,202	2,389	2,604	2,808
SW Constrained Supply	1,793	2,013	2,202	2,389	2,604	2,808
Balance	-	(7)	(20)	(57)	(74)	(103)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-49
MILAM County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	26,234	27,793	28,896	30,300	31,501	32,629

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	4,566	4,722	4,823	5,014	5,201	5,387
	Contractual Demand	393	393	393	393	393	393
	Municipal Existing Supply						
	Groundwater	4,155	3,887	3,249	3,597	3,756	3,761
	Surface water (Less Contractual Demand)[1]	4,776	4,776	4,776	4,776	4,776	4,776
	Total Existing Municipal Supply	8,931	8,662	8,025	8,372	8,531	8,536
	Municipal Balance	4,365	3,940	3,202	3,358	3,330	3,149
Industrial	Manufacturing Demand	12	12	12	14	14	14
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	14	14	14	14	14	14
	Total Manufacturing Supply	14	14	14	14	14	14
	Manufacturing Balance	2	2	2	0	0	0
	Steam-Electric Demand	32,023	32,023	32,023	40,989	40,989	40,989
	Steam-Electric Existing Supply						
	Groundwater	15,786	13,009	12,943	14,444	15,084	15,074
	Surface water[2]	17,333	18,979	19,002	19,323	19,259	19,158
	Total Steam-Electric Supply	33,119	31,988	31,945	33,766	34,343	34,232
	Steam-Electric Balance	1,096	(35)	(78)	(7,223)	(6,646)	(6,757)
	Mining Demand	14	14	14	14	14	14
	Mining Existing Supply						
	Groundwater	14	14	14	14	14	14
	Surface water	0	0	0	0	0	0
	Total Mining Supply	14	14	14	14	14	14
	Mining Balance	0	0	0	0	0	0
Agriculture	Irrigation Demand	5,081	5,040	4,995	4,956	4,915	4,875
	Irrigation Existing Supply						
	Groundwater	5,356	5,204	4,966	5,181	5,273	5,273
	Surface water	42	42	42	42	42	42
	Total Irrigation Supply	5,397	5,245	5,007	5,222	5,314	5,314
	Irrigation Balance	316	205	12	266	399	439
	Livestock Demand	1,822	1,822	1,822	1,822	1,822	1,822
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,822	1,822	1,822	1,822	1,822	1,822
	Total Livestock Supply	1,822	1,822	1,822	1,822	1,822	1,822
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	36,615	36,771	36,872	46,031	46,218	46,404
	Existing Municipal & Industrial Supply						
	Groundwater	15,800	13,023	12,957	14,458	15,098	15,088
	Surface water	22,123	23,768	23,792	24,113	24,049	23,948
	Total Municipal & Industrial Supply	37,923	36,791	36,749	38,570	39,147	39,036
	Municipal & Industrial Balance	1,308	20	(123)	(7,461)	(7,071)	(7,368)
	Agriculture Demand	6,903	6,862	6,817	6,778	6,737	6,697
	Existing Agricultural Supply						
	Groundwater	5,356	5,204	4,966	5,181	5,273	5,273
	Surface water	1,864	1,864	1,864	1,864	1,864	1,864
	Total Agriculture Supply	7,219	7,067	6,829	7,044	7,136	7,136
	Agriculture Balance	316	205	12	266	399	439
	Total Demand	43,518	43,633	43,689	52,809	52,955	53,101
	Total Supply						
	Groundwater	21,156	18,227	17,923	19,638	20,370	20,360
	Surface water	23,986	25,632	25,655	25,976	25,912	25,812
	Total Supply	45,142	43,859	43,578	45,614	46,283	46,172
	Total Balance	1,624	226	(111)	(7,195)	(6,672)	(6,929)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-50. MILAM COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BUCKHOLTS						
Demand	68	70	71	73	76	79
Supply	244	244	244	244	244	244
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	244	244	244	244	244	244
SW Constrained Supply	244	244	244	244	244	244
Balance	176	174	173	171	168	165
BELL-MILAM FALLS WSC (P)						
Demand	255	264	269	279	290	300
Supply	761	761	761	761	761	761
Groundwater	77	77	77	77	77	77
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	684	684	684	684	684	684
SW Constrained Supply	684	684	684	684	684	684
Balance	506	497	492	482	471	461
CAMERON						
Demand	1,359	1,409	1,441	1,500	1,556	1,612
Contractual Demand	163	163	163	163	163	163
Supply	2,792	2,792	2,792	2,792	2,792	2,792
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,792	2,792	2,792	2,792	2,792	2,792
SW Constrained Supply	2,792	2,792	2,792	2,792	2,792	2,792
Balance	1,270	1,220	1,188	1,129	1,073	1,017
MILAM COUNTY-OTHER						
Demand	300	313	324	339	351	364
Supply	956	956	956	956	956	956
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	956	956	956	956	956	956
SW Constrained Supply	956	956	956	956	956	956
Balance	656	643	632	617	605	592
MILANO WSC (P)						
Demand	220	225	228	236	244	253
Supply	258	240	238	238	248	253
Groundwater	258	240	238	238	248	253
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	38	15	10	2	4	0

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-50 Continued. MILAM COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ROCKDALE						
Demand	1,159	1,198	1,222	1,269	1,317	1,364
Supply	2,000	1,860	1,396	1,589	1,672	1,672
Groundwater	2,000	1,860	1,396	1,589	1,672	1,672
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	841	662	174	320	355	308
SOUTHWEST MILAM WSC (P)						
Demand	1,021	1,055	1,078	1,121	1,163	1,204
Contractual Demand	230	230	230	230	230	230
Supply	1,591	1,480	1,310	1,464	1,530	1,530
Groundwater	1,591	1,480	1,310	1,464	1,530	1,530
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	NC	NC	NC	NC
Balance	340	195	2	113	137	96
THORNDALE (P)						
Demand	184	188	190	197	204	211
Supply	229	229	229	229	229	229
Groundwater	229	229	229	229	229	229
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	100	100	100	100	100	100
SW Constrained Supply	-	-	-	-	-	-
Balance	45	41	39	32	25	18

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-51
NOLAN County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	16,134	17,039	17,657	18,325	18,863	19,325

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	2,442	2,492	2,515	2,595	2,665	2,729
	Contractual Demand	2,038	2,038	2,038	2,038	2,038	2,038
	Municipal Existing Supply						
	Groundwater	3,081	3,081	3,081	3,081	3,081	3,081
	Surface water (Less Contractual Demand)[1]	1,948	1,947	1,946	1,945	1,944	1,943
	Total Existing Municipal Supply	5,029	5,028	5,027	5,026	5,025	5,024
	Municipal Balance	2,587	2,536	2,512	2,431	2,360	2,295
Industrial	Manufacturing Demand	1,420	1,611	1,799	1,965	2,130	2,309
	Manufacturing Existing Supply						
	Groundwater	539	539	539	539	539	539
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	539	539	539	539	539	539
	Manufacturing Balance	(881)	(1,072)	(1,260)	(1,426)	(1,591)	(1,770)
	Steam-Electric Demand	13,526	23,916	23,916	23,916	23,916	23,916
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	(13,526)	(23,916)	(23,916)	(23,916)	(23,916)	(23,916)
	Mining Demand	225	222	200	178	158	141
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(225)	(222)	(200)	(178)	(158)	(141)
Agriculture	Irrigation Demand	7,413	7,217	7,024	6,842	6,663	6,497
	Irrigation Existing Supply						
	Groundwater	4,890	4,890	4,890	4,890	4,890	4,890
	Surface water	40	40	40	40	40	40
	Total Irrigation Supply	4,930	4,930	4,930	4,930	4,930	4,930
	Irrigation Balance	(2,483)	(2,287)	(2,094)	(1,912)	(1,733)	(1,567)
	Livestock Demand	387	387	387	387	387	387
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	387	387	387	387	387	387
	Total Livestock Supply	387	387	387	387	387	387
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	17,613	28,241	28,430	28,654	28,869	29,095
	Existing Municipal & Industrial Supply						
	Groundwater	539	539	539	539	539	539
	Surface water	1,948	1,947	1,946	1,945	1,944	1,943
	Total Municipal & Industrial Supply	2,487	2,486	2,485	2,484	2,483	2,482
	Municipal & Industrial Balance	(15,126)	(25,755)	(25,945)	(26,170)	(26,386)	(26,613)
	Agriculture Demand	7,800	7,604	7,411	7,229	7,050	6,884
	Existing Agricultural Supply						
	Groundwater	4,890	4,890	4,890	4,890	4,890	4,890
	Surface water	427	427	427	427	427	427
	Total Agriculture Supply	5,317	5,317	5,317	5,317	5,317	5,317
	Agriculture Balance	(2,483)	(2,287)	(2,094)	(1,912)	(1,733)	(1,567)
	Total Demand	25,413	35,845	35,841	35,883	35,919	35,979
	Total Supply						
	Groundwater	5,429	5,429	5,429	5,429	5,429	5,429
	Surface water	2,375	2,374	2,373	2,372	2,371	2,370
	Total Supply	7,804	7,803	7,802	7,801	7,800	7,799
	Total Balance	(17,609)	(28,042)	(28,039)	(28,082)	(28,119)	(28,180)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-52. NOLAN COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BITTER CREEK WSC (P)						
Demand	162	164	165	170	175	179
Supply	415	415	415	415	415	415
Groundwater	132	132	132	132	132	132
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	283	283	283	283	283	283
SW Constrained Supply	283	283	283	283	283	283
Balance	253	251	250	245	240	236
NOLAN COUNTY-OTHER						
Demand	228	231	232	237	243	249
Contractual Demand	1	1	1	1	1	1
Supply	125	125	125	125	125	125
Groundwater	125	125	125	125	125	125
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(104)	(107)	(108)	(113)	(119)	(125)
ROSCOE						
Demand	200	204	205	211	217	222
Supply	284	284	284	284	284	284
Groundwater	284	284	284	284	284	284
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	84	80	79	73	67	62
SWEETWATER						
Demand	1,852	1,893	1,913	1,977	2,030	2,079
Contractual Demand	2,037	2,037	2,037	2,037	2,037	2,037
Supply	2,540	2,540	2,540	2,540	2,540	2,540
Groundwater	2,540	2,540	2,540	2,540	2,540	2,540
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,665	1,664	1,663	1,662	1,661	1,660
SW Constrained Supply	-	-	-	-	-	-
Balance	(1,349)	(1,390)	(1,410)	(1,474)	(1,527)	(1,576)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-53
PALO PINTO County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	30,535	32,771	34,280	35,675	36,739	37,579

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	4,636	4,824	4,930	5,077	5,217	5,334
	Contractual Demand	2,352	2,352	2,352	2,352	2,352	2,352
	Municipal Existing Supply						
	Groundwater	100	100	100	100	100	100
	Surface water (Less Contractual Demand)[1]	10,969	11,061	11,106	11,164	11,220	11,264
	Total Existing Municipal Supply	11,069	11,161	11,206	11,264	11,320	11,364
	Municipal Balance	6,433	6,337	6,276	6,187	6,103	6,030
Industrial	Manufacturing Demand	49	53	57	61	67	74
	Manufacturing Existing Supply						
	Groundwater	1	1	1	1	1	1
	Surface water	1,210	1,210	1,210	1,210	1,210	1,210
	Total Manufacturing Supply	1,211	1,211	1,211	1,211	1,211	1,211
	Manufacturing Balance	1,162	1,158	1,154	1,150	1,144	1,137
	Steam-Electric Demand	4,000	4,000	4,000	4,000	4,000	4,000
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	13,842	13,412	13,028	12,627	12,227	11,839
	Total Steam-Electric Supply	13,842	13,412	13,028	12,627	12,227	11,839
	Steam-Electric Balance	9,842	9,412	9,028	8,627	8,227	7,839
	Mining Demand	656	847	625	480	336	235
	Mining Existing Supply						
	Groundwater	11	11	11	11	11	11
	Surface water	1,236	1,220	1,203	1,187	1,170	1,154
	Total Mining Supply	1,247	1,231	1,214	1,198	1,181	1,165
	Mining Balance	591	384	589	718	845	930
Agriculture	Irrigation Demand	3,138	3,097	3,063	3,022	2,981	2,944
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	550	550	550	550	550	550
	Total Irrigation Supply	550	550	550	550	550	550
	Irrigation Balance	(2,588)	(2,547)	(2,513)	(2,472)	(2,431)	(2,394)
	Livestock Demand	915	915	915	915	915	915
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	915	915	915	915	915	915
	Total Livestock Supply	915	915	915	915	915	915
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	9,341	9,724	9,612	9,618	9,620	9,643
	Existing Municipal & Industrial Supply						
	Groundwater	12	12	12	12	12	12
	Surface water	27,257	26,903	26,546	26,188	25,827	25,467
	Total Municipal & Industrial Supply	27,269	26,915	26,558	26,200	25,839	25,479
	Municipal & Industrial Balance	17,928	17,191	16,946	16,582	16,219	15,836
	Agriculture Demand	4,053	4,012	3,978	3,937	3,896	3,859
	Existing Agricultural Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,465	1,465	1,465	1,465	1,465	1,465
	Total Agriculture Supply	1,465	1,465	1,465	1,465	1,465	1,465
	Agriculture Balance	(2,588)	(2,547)	(2,513)	(2,472)	(2,431)	(2,394)
	Total Demand	13,394	13,736	13,590	13,555	13,516	13,502
	Total Supply						
	Groundwater	12	12	12	12	12	12
	Surface water	28,722	28,368	28,011	27,653	27,292	26,932
	Total Supply	28,734	28,380	28,023	27,665	27,304	26,944
	Total Balance	15,340	14,644	14,433	14,110	13,788	13,442

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-54. PALO PINTO COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
PALO PINTO COUNTY-OTHER						
Demand	1,063	1,079	1,082	1,111	1,140	1,165
Contractual Demand	77	77	77	77	77	77
Supply	2,566	2,566	2,566	2,566	2,566	2,566
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,644	2,644	2,644	2,644	2,644	2,644
SW Constrained Supply	2,566	2,566	2,566	2,566	2,566	2,566
Balance	1,426	1,410	1,407	1,378	1,349	1,324
GRAFORD						
Demand	61	62	63	64	66	67
Supply	92	92	92	92	92	92
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	92	92	92	92	92	92
SW Constrained Supply	92	92	92	92	92	92
Balance	31	30	29	28	26	25
MINERAL WELLS						
Demand	2,593	2,708	2,775	2,856	2,935	3,002
Contractual Demand	2,225	2,225	2,225	2,225	2,225	2,225
Supply	4,818	4,933	5,000	5,081	5,160	5,227
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	7,338	7,430	7,474	7,533	7,589	7,633
SW Constrained Supply	4,818	4,933	5,000	5,081	5,160	5,227
Balance	-	-	-	-	-	-
POSSUM KINGDOM WSC (P)						
Demand	777	826	858	889	915	936
Supply	722	722	722	722	722	722
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	722	722	722	722	722	722
SW Constrained Supply	722	722	722	722	722	722
Balance	(56)	(105)	(137)	(168)	(194)	(215)
STEPHENS REGIONAL SUD (P)						
Demand	5	5	5	5	5	5
Supply	10	10	10	10	10	10
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	14	14	14	14	14	14
SW Constrained Supply	10	10	10	10	10	10
Balance	5	5	5	5	5	5

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-54 Continued. PALO PINTO COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
STRAWN						
Demand	137	144	147	152	156	159
Contractual Demand	50	50	50	50	50	50
Supply	260	260	260	260	260	260
Groundwater	100	100	100	100	100	100
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	160	160	160	160	160	160
SW Constrained Supply	160	160	160	160	160	160
Balance	73	66	63	58	54	51

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-55
ROBERTSON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	18,358	20,150	21,801	23,525	25,174	26,771

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	2,576	2,710	2,861	3,056	3,254	3,457
	Contractual Demand	7	7	7	7	7	7
	Municipal Existing Supply						
	Groundwater	6,341	6,362	6,367	6,365	6,363	6,361
	Surface water (Less Contractual Demand)[1]	648	622	597	571	545	519
	Total Existing Municipal Supply	6,989	6,984	6,963	6,935	6,908	6,881
	Municipal Balance	4,413	4,274	4,102	3,879	3,654	3,424
Industrial	Manufacturing Demand	133	154	176	197	214	232
	Manufacturing Existing Supply						
	Groundwater	251	251	251	251	251	251
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	251	251	251	251	251	251
	Manufacturing Balance	118	97	75	54	37	19
	Steam-Electric Demand	17,461	30,380	35,512	46,984	49,133	51,381
	Steam-Electric Existing Supply						
	Groundwater	6,014	6,014	6,014	6,014	6,014	6,014
	Surface water[2]	27,885	27,686	27,487	27,288	27,088	26,889
	Total Steam-Electric Supply	33,899	33,699	33,500	33,301	33,102	32,903
	Steam-Electric Balance	16,438	3,319	(2,012)	(13,683)	(16,031)	(18,478)
	Mining Demand	9,913	11,753	13,768	16,222	19,217	22,940
	Mining Existing Supply						
	Groundwater	10,205	10,205	10,205	10,205	10,205	10,205
	Surface water	0	0	0	0	0	0
	Total Mining Supply	10,205	10,205	10,205	10,205	10,205	10,205
	Mining Balance	292	(1,548)	(3,563)	(6,017)	(9,012)	(12,735)
Agriculture	Irrigation Demand	63,420	61,607	59,841	58,127	56,460	55,124
	Irrigation Existing Supply						
	Groundwater	9,896	9,996	10,096	10,144	10,144	10,144
	Surface water	535	535	535	535	535	535
	Total Irrigation Supply	10,431	10,531	10,631	10,679	10,679	10,679
	Irrigation Balance	(52,989)	(51,076)	(49,210)	(47,448)	(45,781)	(44,445)
	Livestock Demand	1,612	1,612	1,612	1,612	1,612	1,612
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,612	1,612	1,612	1,612	1,612	1,612
	Total Livestock Supply	1,612	1,612	1,612	1,612	1,612	1,612
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	30,083	44,997	52,317	66,459	71,818	78,010
	Existing Municipal & Industrial Supply						
	Groundwater	16,470	16,470	16,470	16,470	16,470	16,470
	Surface water	28,533	28,308	28,083	27,858	27,633	27,409
	Total Municipal & Industrial Supply	45,003	44,778	44,553	44,328	44,103	43,878
	Municipal & Industrial Balance	14,920	(219)	(7,764)	(22,131)	(27,715)	(34,132)
	Agriculture Demand	65,032	63,219	61,453	59,739	58,072	56,736
	Existing Agricultural Supply						
	Groundwater	9,896	9,996	10,096	10,144	10,144	10,144
	Surface water	2,147	2,147	2,147	2,147	2,147	2,147
	Total Agriculture Supply	12,043	12,143	12,243	12,291	12,291	12,291
	Agriculture Balance	(52,989)	(51,076)	(49,210)	(47,448)	(45,781)	(44,445)
	Total Demand	95,115	108,216	113,770	126,198	129,890	134,746
	Total Supply						
	Groundwater	26,366	26,466	26,566	26,613	26,613	26,613
	Surface water	30,680	30,455	30,230	30,006	29,781	29,556
	Total Supply	57,046	56,921	56,796	56,619	56,394	56,169
	Total Balance	(38,069)	(51,295)	(56,974)	(69,579)	(73,496)	(78,577)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-56. ROBERTSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BREMOND						
Demand	189	201	213	229	244	260
Supply	391	391	391	391	391	391
Groundwater	391	391	391	391	391	391
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	202	190	178	162	147	131
CALVERT						
Demand	190	183	180	180	179	179
Supply	529	529	529	529	529	529
Groundwater	529	529	529	529	529	529
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	339	346	349	349	350	350
ROBERTSON COUNTY-OTHER						
Demand	439	512	589	665	734	796
Supply	757	757	757	757	757	757
Groundwater	757	757	757	757	757	757
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	318	245	168	92	23	(39)
FRANKLIN						
Demand	256	272	288	307	328	348
Supply	628	628	628	628	628	628
Groundwater	628	628	628	628	628	628
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	372	356	340	321	300	280
HEARNE						
Demand	757	734	715	713	711	711
Contractual Demand	1	1	1	1	1	1
Supply	2,843	2,843	2,843	2,843	2,843	2,843
Groundwater	2,843	2,843	2,843	2,843	2,843	2,843
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	2,085	2,108	2,127	2,129	2,131	2,131

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-56 Continued. ROBERTSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ROBERTSON COUNTY WSC						
Demand	246	256	267	282	300	319
Contractual Demand	6	6	6	6	6	6
Supply	517	517	517	517	517	517
Groundwater	517	517	517	517	517	517
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	265	255	244	229	211	192
TRI-COUNTY SUD (P)						
Demand	115	121	128	136	145	154
Supply	112	112	112	112	112	112
Groundwater	112	112	112	112	112	112
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	NC	NC	NC	NC
Balance	(3)	(9)	(16)	(24)	(33)	(42)
WELLBORN SUD (P)						
Demand	356	401	450	511	578	653
Supply	687	709	717	717	717	717
Groundwater	506	528	535	535	535	535
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	648	622	597	571	545	519
SW Constrained Supply	181	181	181	181	181	181
Balance	331	308	267	206	139	64
WICKSON CREEK SUD (P)						
Demand	28	30	31	33	35	37
Supply	59	58	55	53	51	50
Groundwater	59	58	55	53	51	50
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	31	28	24	20	16	13

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-57
SHACKELFORD County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	3,558	3,666	3,657	3,667	3,667	3,667

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	767	788	772	771	770	770
	Contractual Demand	125	113	108	107	107	107
	Municipal Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water (Less Contractual Demand)[1]	3,149	3,132	3,121	3,115	3,110	3,105
	Total Existing Municipal Supply	3,149	3,132	3,121	3,115	3,110	3,105
	Municipal Balance	2,382	2,344	2,349	2,344	2,340	2,335
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	50	50	50	50	50	50
	Total Manufacturing Supply	50	50	50	50	50	50
	Manufacturing Balance	50	50	50	50	50	50
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	562	747	558	442	328	243
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	7	7	7	7	7	7
	Total Mining Supply	7	7	7	7	7	7
	Mining Balance	(555)	(740)	(551)	(435)	(321)	(236)
Agriculture	Irrigation Demand	0	0	0	0	0	0
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	0	0	0	0	0	0
	Irrigation Balance	0	0	0	0	0	0
	Livestock Demand	840	840	840	840	840	840
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	840	840	840	840	840	840
	Total Livestock Supply	840	840	840	840	840	840
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	1,329	1,535	1,330	1,213	1,098	1,013
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	3,206	3,189	3,178	3,172	3,167	3,162
	Total Municipal & Industrial Supply	3,206	3,189	3,178	3,172	3,167	3,162
	Municipal & Industrial Balance	1,877	1,654	1,848	1,959	2,069	2,149
	Agriculture Demand	840	840	840	840	840	840
	Existing Agricultural Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	840	840	840	840	840	840
	Total Agriculture Supply	840	840	840	840	840	840
	Agriculture Balance	0	0	0	0	0	0
	Total Demand	2,169	2,375	2,170	2,053	1,938	1,853
	Total Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	4,046	4,029	4,018	4,012	4,007	4,002
	Total Supply	4,046	4,029	4,018	4,012	4,007	4,002
	Total Balance	1,877	1,654	1,848	1,959	2,069	2,149

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-58. SHACKELFORD COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ALBANY						
Demand	640	673	662	662	661	661
Contractual Demand	125	113	108	107	107	107
Supply	953	953	953	953	953	953
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,580	2,580	2,580	2,580	2,580	2,580
SW Constrained Supply	953	953	953	953	953	953
Balance	188	167	183	184	185	185
SHACKELFORD COUNTY-OTHER						
Demand	125	113	108	107	107	107
Supply	125	113	108	107	107	107
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	563	546	536	530	525	520
SW Constrained Supply	125	113	108	107	107	107
Balance	-	-	-	-	-	-
STEPHENS REGIONAL SUD (P)						
Demand	2	2	2	2	2	2
Supply	4	4	4	4	4	4
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	6	6	6	6	6	6
SW Constrained Supply	4	4	4	4	4	4
Balance	2	2	2	2	2	2

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-59
SOMERVELL County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	9,482	10,594	11,395	12,013	12,539	12,958

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	1,405	1,530	1,618	1,691	1,760	1,819
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	724	724	724	724	724	724
	Surface water (Less Contractual Demand)[1]	2,000	2,000	2,000	2,000	2,000	2,000
	Total Existing Municipal Supply	2,724	2,724	2,724	2,724	2,724	2,724
	Municipal Balance	1,319	1,194	1,106	1,033	964	905
Industrial	Manufacturing Demand	8	9	10	11	12	13
	Manufacturing Existing Supply						
	Groundwater	20	20	20	20	20	20
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	20	20	20	20	20	20
	Manufacturing Balance	12	11	10	9	8	7
	Steam-Electric Demand	84,817	84,817	84,817	84,817	84,817	84,817
	Steam-Electric Existing Supply						
	Groundwater	36	36	36	36	36	36
	Surface water[2]	49,285	49,272	49,260	49,247	49,235	49,222
	Total Steam-Electric Supply	49,321	49,309	49,296	49,283	49,271	49,258
	Steam-Electric Balance	(35,496)	(35,508)	(35,521)	(35,534)	(35,546)	(35,559)
	Mining Demand	1,112	1,279	1,146	1,060	998	971
	Mining Existing Supply						
	Groundwater	705	705	705	705	705	705
	Surface water	0	0	0	0	0	0
	Total Mining Supply	705	705	705	705	705	705
	Mining Balance	(407)	(574)	(441)	(355)	(293)	(266)
Agriculture	Irrigation Demand	83	82	82	81	80	79
	Irrigation Existing Supply						
	Groundwater	104	104	104	104	104	104
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	104	104	104	104	104	104
	Irrigation Balance	21	22	22	23	24	25
	Livestock Demand	158	158	158	158	158	158
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	158	158	158	158	158	158
	Total Livestock Supply	158	158	158	158	158	158
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	87,342	87,635	87,591	87,579	87,587	87,620
	Existing Municipal & Industrial Supply						
	Groundwater	761	761	761	761	761	761
	Surface water	51,285	51,272	51,260	51,247	51,235	51,222
	Total Municipal & Industrial Supply	52,046	52,034	52,021	52,008	51,996	51,983
	Municipal & Industrial Balance	(35,296)	(35,601)	(35,570)	(35,571)	(35,591)	(35,637)
	Agriculture Demand	241	240	240	239	238	237
	Existing Agricultural Supply						
	Groundwater	104	104	104	104	104	104
	Surface water	158	158	158	158	158	158
	Total Agriculture Supply	262	262	262	262	262	262
	Agriculture Balance	21	22	22	23	24	25
	Total Demand	87,583	87,875	87,831	87,818	87,825	87,857
	Total Supply						
	Groundwater	865	865	865	865	865	865
	Surface water	51,443	51,430	51,418	51,405	51,393	51,380
	Total Supply	52,308	52,295	52,283	52,270	52,258	52,245
	Total Balance	(35,275)	(35,580)	(35,548)	(35,548)	(35,567)	(35,612)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-60. SOMERVELL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
SOMERVELL COUNTY-OTHER						
Demand	822	892	941	982	1,022	1,056
Supply	1,400	1,400	1,400	1,400	1,400	1,400
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,000	2,000	2,000	2,000	2,000	2,000
SW Constrained Supply	1,400	1,400	1,400	1,400	1,400	1,400
Balance	578	508	459	418	378	344
GLEN ROSE						
Demand	583	638	677	709	738	763
Supply	724	724	724	724	724	724
Groundwater	724	724	724	724	724	724
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	141	86	47	15	(14)	(39)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-61
STEPHENS County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	9,927	10,293	10,455	10,563	10,641	10,693

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	1,469	1,475	1,460	1,455	1,463	1,470
	Contractual Demand	99	99	99	99	99	99
	Municipal Existing Supply						
	Groundwater	207	207	207	207	207	207
	Surface water (Less Contractual Demand)[1]	3,838	3,835	3,832	3,830	3,827	3,825
	Total Existing Municipal Supply	4,045	4,042	4,039	4,037	4,034	4,032
	Municipal Balance	2,576	2,567	2,579	2,582	2,571	2,562
Industrial	Manufacturing Demand	9	10	11	12	13	14
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	9	10	11	12	13	14
	Total Manufacturing Supply	9	10	11	12	13	14
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	5,064	5,141	4,458	3,825	3,257	2,773
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,000	1,000	1,000	1,000	1,000	1,000
	Total Mining Supply	1,000	1,000	1,000	1,000	1,000	1,000
	Mining Balance	(4,064)	(4,141)	(3,458)	(2,825)	(2,257)	(1,773)
Agriculture	Irrigation Demand	116	115	113	112	111	110
	Irrigation Existing Supply						
	Groundwater	86	86	86	86	86	86
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	86	86	86	86	86	86
	Irrigation Balance	(30)	(29)	(27)	(26)	(25)	(24)
	Livestock Demand	486	486	486	486	486	486
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	486	486	486	486	486	486
	Total Livestock Supply	486	486	486	486	486	486
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	6,542	6,626	5,929	5,292	4,733	4,257
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	4,847	4,845	4,843	4,842	4,840	4,839
	Total Municipal & Industrial Supply	4,847	4,845	4,843	4,842	4,840	4,839
	Municipal & Industrial Balance	(1,695)	(1,781)	(1,086)	(450)	107	582
	Agriculture Demand	602	601	599	598	597	596
	Existing Agricultural Supply						
	Groundwater	86	86	86	86	86	86
	Surface water	486	486	486	486	486	486
	Total Agriculture Supply	572	572	572	572	572	572
	Agriculture Balance	(30)	(29)	(27)	(26)	(25)	(24)
	Total Demand	7,144	7,227	6,528	5,890	5,330	4,853
	Total Supply						
	Groundwater	86	86	86	86	86	86
	Surface water	5,333	5,331	5,329	5,328	5,326	5,325
	Total Supply	5,419	5,417	5,416	5,414	5,413	5,411
	Total Balance	(1,725)	(1,810)	(1,112)	(476)	83	558

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-62. STEPHENS COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BRECKENRIDGE						
Demand	1,012	1,020	1,013	1,011	1,017	1,022
Supply	1,891	1,891	1,891	1,891	1,891	1,891
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,100	3,097	3,094	3,092	3,089	3,087
SW Constrained Supply	1,891	1,891	1,891	1,891	1,891	1,891
Balance	879	871	878	880	874	869
POSSUM KINGDOM WSC (P)						
Demand	33	34	34	34	34	35
Supply	29	29	29	29	29	29
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	29	29	29	29	29	29
SW Constrained Supply	29	29	29	29	29	29
Balance	(5)	(6)	(6)	(6)	(6)	(7)
STEPHENS COUNTY-OTHER						
Demand	156	155	152	151	152	152
Supply	207	207	207	207	207	207
Groundwater	207	207	207	207	207	207
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	51	52	55	56	55	55
FORT BELKNAPP WSC (P)						
Demand	6	6	6	6	6	6
Supply	5	5	5	5	5	5
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5	5	5	5	5	5
SW Constrained Supply	5	5	5	5	5	5
Balance	(1)	(1)	(1)	(1)	(1)	(1)
STEPHENS REGIONAL SUD (P)						
Demand	262	260	255	253	254	255
Contractual Demand	99	99	99	99	99	99
Supply	493	493	493	493	493	493
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	704	704	704	704	704	704
SW Constrained Supply	493	493	493	493	493	493
Balance	132	134	139	141	140	139

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-63
STONEWALL County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	1,501	1,504	1,504	1,504	1,504	1,504

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	318	310	307	306	305	305
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	396	386	371	372	379	379
	Surface water (Less Contractual Demand)[1]	85	71	56	42	28	13
	Total Existing Municipal Supply	482	457	428	414	407	393
	Municipal Balance	164	147	121	108	102	88
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	584	576	512	446	388	338
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	175	175	175	175	175	175
	Total Mining Supply	175	175	175	175	175	175
	Mining Balance	(409)	(401)	(337)	(271)	(213)	(163)
Agriculture	Irrigation Demand	165	160	155	150	146	142
	Irrigation Existing Supply						
	Groundwater	219	219	219	219	219	219
	Surface water	8	8	8	8	8	8
	Total Irrigation Supply	227	227	227	227	227	227
	Irrigation Balance	62	67	72	77	81	85
	Livestock Demand	458	458	458	458	458	458
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	458	458	458	458	458	458
	Total Livestock Supply	458	458	458	458	458	458
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	902	886	819	752	693	643
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	260	246	231	217	203	188
	Total Municipal & Industrial Supply	260	246	231	217	203	188
	Municipal & Industrial Balance	(642)	(640)	(588)	(535)	(490)	(455)
	Agriculture Demand	623	618	613	608	604	600
	Existing Agricultural Supply						
	Groundwater	219	219	219	219	219	219
	Surface water	466	466	466	466	466	466
	Total Agriculture Supply	685	685	685	685	685	685
	Agriculture Balance	62	67	72	77	81	85
	Total Demand	1,525	1,504	1,432	1,360	1,297	1,243
	Total Supply						
	Groundwater	219	219	219	219	219	219
	Surface water	726	712	697	683	669	654
	Total Supply	945	931	916	902	888	873
	Total Balance	(580)	(573)	(516)	(458)	(409)	(370)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-64. STONEWALL COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ASPERMONT						
Demand	250	245	242	242	241	241
Supply	389	364	335	321	314	300
Groundwater	303	293	278	279	286	286
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	85	71	56	42	28	13
SW Constrained Supply	85	71	56	42	28	13
Balance	139	119	93	79	73	59
STONEWALL COUNTY-OTHER						
Demand	68	65	65	64	64	64
Supply	93	93	93	93	93	93
Groundwater	93	93	93	93	93	93
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	25	28	28	29	29	29

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-65
TAYLOR County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	140,675	147,183	152,561	156,822	160,004	162,423

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	24,242	24,682	25,049	25,468	25,934	26,321
	Contractual Demand	4,121	4,268	4,410	4,531	4,706	4,895
	Municipal Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water (Less Contractual Demand)[1]	36,189	35,698	35,207	34,715	34,226	33,735
	Total Existing Municipal Supply	36,189	35,698	35,207	34,715	34,226	33,735
	Municipal Balance	11,947	11,016	10,158	9,247	8,292	7,414
Industrial	Manufacturing Demand	1,653	1,800	1,942	2,063	2,236	2,424
	Manufacturing Existing Supply						
	Groundwater	405	405	405	405	405	405
	Surface water	1,248	1,395	1,537	1,658	1,831	2,019
	Total Manufacturing Supply	1,653	1,800	1,942	2,063	2,236	2,424
	Manufacturing Balance	(0)	(0)	(0)	(0)	(0)	(0)
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	391	391	366	346	329	315
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(391)	(391)	(366)	(346)	(329)	(315)
Agriculture	Irrigation Demand	1,557	1,519	1,481	1,444	1,406	1,373
	Irrigation Existing Supply						
	Groundwater	500	500	500	500	500	500
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	500	500	500	500	500	500
	Irrigation Balance	(1,057)	(1,019)	(981)	(944)	(906)	(873)
	Livestock Demand	963	963	963	963	963	963
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	963	963	963	963	963	963
	Total Livestock Supply	963	963	963	963	963	963
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	26,286	26,873	27,357	27,877	28,499	29,060
	Existing Municipal & Industrial Supply						
	Groundwater	405	405	405	405	405	405
	Surface water	37,437	37,093	36,744	36,373	36,057	35,754
	Total Municipal & Industrial Supply	37,842	37,498	37,148	36,778	36,461	36,159
	Municipal & Industrial Balance	11,556	10,625	9,791	8,901	7,962	7,099
	Agriculture Demand	2,520	2,482	2,444	2,407	2,369	2,336
	Existing Agricultural Supply						
	Groundwater	500	500	500	500	500	500
	Surface water	963	963	963	963	963	963
	Total Agriculture Supply	1,463	1,463	1,463	1,463	1,463	1,463
	Agriculture Balance	(1,057)	(1,019)	(981)	(944)	(906)	(873)
	Total Demand	28,806	29,355	29,801	30,284	30,868	31,396
	Total Supply						
	Groundwater	905	905	905	905	905	905
	Surface water	38,400	38,056	37,707	37,336	37,020	36,717
	Total Supply	39,305	38,961	38,612	38,241	37,925	37,622
	Total Balance	10,499	9,606	8,811	7,957	7,057	6,226

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-66. TAYLOR COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
ABILENE (P)						
Demand	21,750	22,165	22,507	22,884	23,303	23,652
Contractual Demand	4,042	4,189	4,331	4,452	4,625	4,813
Supply	31,717	18,080	17,920	17,759	17,599	17,438
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	33,588	33,096	32,605	32,113	31,622	31,130
SW Constrained Supply	31,717	18,080	17,920	17,759	17,599	17,438
Balance	5,925	(8,274)	(8,918)	(9,577)	(10,329)	(11,027)
COLEMAN COUNTY SUD (P)						
Demand	13	13	13	13	14	14
Supply	7	7	7	7	7	7
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	7	7	7	7	7	7
SW Constrained Supply	7	7	7	7	7	7
Balance	(6)	(6)	(6)	(6)	(7)	(7)
TAYLOR COUNTY-OTHER						
Demand	660	660	662	678	690	700
Supply	1,078	1,078	1,078	1,078	1,078	1,078
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,308	1,308	1,308	1,308	1,308	1,308
SW Constrained Supply	1,078	1,078	1,078	1,078	1,078	1,078
Balance	418	418	416	400	388	378
HAWLEY WSC (P)						
Demand	40	40	40	40	40	41
Supply	62	62	62	62	62	62
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	62	62	62	62	62	62
SW Constrained Supply	62	62	62	62	62	62
Balance	22	22	22	22	22	21
MERKEL						
Demand	343	345	347	350	357	362
Supply	353	353	353	353	353	353
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	353	353	353	353	353	353
SW Constrained Supply	353	353	353	353	353	353
Balance	10	8	6	3	(4)	(9)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-66 Continued. TAYLOR COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
POTOSI WSC (P)						
Demand	761	779	794	809	823	836
Supply	302	302	302	302	302	302
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	302	302	302	302	302	302
SW Constrained Supply	302	--	--	--	--	--
Balance	(459)	(477)	(492)	(507)	(521)	(534)
STEAMBOAT MOUNTAIN WSC						
Demand	410	413	417	422	429	435
Contractual Demand	79	79	79	79	81	82
Supply	307	307	307	307	307	307
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	307	307	307	307	307	307
SW Constrained Supply	307	--	NC	NC	NC	NC
Balance	(182)	(185)	(189)	(194)	(203)	(210)
TUSCOLA						
Demand	79	79	79	79	81	82
Supply	79	79	79	79	81	82
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	79	79	79	79	81	82
SW Constrained Supply	79	79	79	79	81	82
Balance	-	-	-	-	-	-
TYE						
Demand	186	188	190	193	197	199
Supply	184	184	184	184	184	184
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	184	184	184	184	184	184
SW Constrained Supply	184	184	184	184	184	184
Balance	(2)	(4)	(6)	(9)	(13)	(15)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-67
THROCKMORTON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	1,646	1,646	1,646	1,646	1,646	1,646

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	266	258	254	253	252	252
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water (Less Contractual Demand)[1]	580	580	580	580	580	580
	Total Existing Municipal Supply	580	580	580	580	580	580
	Municipal Balance	314	322	326	327	328	328
Industrial	Manufacturing Demand	0	0	0	0	0	0
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Manufacturing Supply	0	0	0	0	0	0
	Manufacturing Balance	0	0	0	0	0	0
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	194	191	171	150	132	116
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(194)	(191)	(171)	(150)	(132)	(116)
Agriculture	Irrigation Demand	0	0	0	0	0	0
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	8	8	8	8	8	8
	Total Irrigation Supply	8	8	8	8	8	8
	Irrigation Balance	8	8	8	8	8	8
	Livestock Demand	672	672	672	672	672	672
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	672	672	672	672	672	672
	Total Livestock Supply	672	672	672	672	672	672
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	460	449	425	403	384	368
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	580	580	580	580	580	580
	Total Municipal & Industrial Supply	580	580	580	580	580	580
	Municipal & Industrial Balance	120	131	155	177	196	212
	Agriculture Demand	672	672	672	672	672	672
	Existing Agricultural Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	680	680	680	680	680	680
	Total Agriculture Supply	680	680	680	680	680	680
	Agriculture Balance	8	8	8	8	8	8
	Total Demand	1,132	1,121	1,097	1,075	1,056	1,040
	Total Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,260	1,260	1,260	1,260	1,260	1,260
	Total Supply	1,260	1,260	1,260	1,260	1,260	1,260
	Total Balance	128	139	163	185	204	220

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-68. THROCKMORTON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
THROCKMORTON COUNTY-OTHER						
Demand	48	45	45	45	45	45
Supply	99	99	99	99	99	99
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	198	198	198	198	198	198
SW Constrained Supply	99	99	99	99	99	99
Balance	51	54	54	54	54	54
FORT BELKNAPP WSC (P)						
Demand	20	20	19	19	19	19
Supply	17	17	17	17	17	17
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	17	17	17	17	17	17
SW Constrained Supply	17	17	17	17	17	17
Balance	(3)	(3)	(2)	(2)	(2)	(2)
STEPHENS REGIONAL SUD (P)						
Demand	16	15	15	14	14	14
Supply	28	28	28	28	28	28
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	40	40	40	40	40	40
SW Constrained Supply	28	28	28	28	28	28
Balance	12	13	13	14	14	14
THROCKMORTON						
Demand	182	178	175	175	174	174
Supply	325	325	325	325	325	325
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	325	325	325	325	325	325
SW Constrained Supply	325	325	325	325	325	325
Balance	143	147	150	150	151	151

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-69
WASHINGTON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	36,199	38,516	40,095	41,664	42,884	43,880

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	6,503	6,797	6,978	7,210	7,427	7,615
	Contractual Demand	0	0	0	0	0	0
	Municipal Existing Supply						
	Groundwater	2,784	2,784	2,784	2,784	2,784	2,784
	Surface water (Less Contractual Demand)[1]	4,200	4,200	4,200	4,200	4,200	4,200
	Total Existing Municipal Supply	6,984	6,984	6,984	6,984	6,984	6,984
	Municipal Balance	481	187	6	(226)	(443)	(631)
Industrial	Manufacturing Demand	692	757	822	879	951	1,029
	Manufacturing Existing Supply						
	Groundwater	423	423	423	423	423	423
	Surface water	208	208	208	208	208	208
	Total Manufacturing Supply	631	631	631	631	631	631
	Manufacturing Balance	(62)	(127)	(192)	(249)	(321)	(399)
	Steam-Electric Demand	0	0	0	0	0	0
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	0	0	0	0	0	0
	Total Steam-Electric Supply	0	0	0	0	0	0
	Steam-Electric Balance	0	0	0	0	0	0
	Mining Demand	569	866	703	538	373	264
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	0	0	0	0	0	0
	Total Mining Supply	0	0	0	0	0	0
	Mining Balance	(569)	(866)	(703)	(538)	(373)	(264)
Agriculture	Irrigation Demand	299	299	299	299	299	299
	Irrigation Existing Supply						
	Groundwater	450	450	450	450	450	450
	Surface water	0	0	0	0	0	0
	Total Irrigation Supply	450	450	450	450	450	450
	Irrigation Balance	151	151	151	151	151	151
	Livestock Demand	1,661	1,661	1,661	1,661	1,661	1,661
	Livestock Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	1,661	1,661	1,661	1,661	1,661	1,661
	Total Livestock Supply	1,661	1,661	1,661	1,661	1,661	1,661
	Livestock Balance	0	0	0	0	0	0
Total	Municipal & Industrial Demand	7,764	8,420	8,503	8,627	8,751	8,908
	Existing Municipal & Industrial Supply						
	Groundwater	423	423	423	423	423	423
	Surface water	4,408	4,408	4,408	4,408	4,408	4,408
	Total Municipal & Industrial Supply	4,831	4,831	4,831	4,831	4,831	4,831
	Municipal & Industrial Balance	(2,934)	(3,590)	(3,673)	(3,797)	(3,921)	(4,078)
	Agriculture Demand	1,960	1,960	1,960	1,960	1,960	1,960
	Existing Agricultural Supply						
	Groundwater	450	450	450	450	450	450
	Surface water	1,661	1,661	1,661	1,661	1,661	1,661
	Total Agriculture Supply	2,111	2,111	2,111	2,111	2,111	2,111
	Agriculture Balance	151	151	151	151	151	151
	Total Demand	9,724	10,380	10,463	10,587	10,711	10,868
	Total Supply						
	Groundwater	873	873	873	873	873	873
	Surface water	6,069	6,069	6,069	6,069	6,069	6,069
	Total Supply	6,942	6,942	6,942	6,942	6,942	6,942
	Total Balance	(2,783)	(3,439)	(3,522)	(3,646)	(3,770)	(3,927)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-70. WASHINGTON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BRENHAM						
Demand	4,079	4,359	4,542	4,747	4,922	5,070
Supply	4,142	4,142	4,142	4,142	4,142	4,142
Groundwater	234	234	234	234	234	234
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	4,200	4,200	4,200	4,200	4,200	4,200
SW Constrained Supply	3,909	3,909	3,909	3,909	3,909	3,909
Balance	63	(217)	(400)	(605)	(780)	(928)
WASHINGTON COUNTY-OTHER						
Demand	2,424	2,438	2,436	2,463	2,505	2,545
Supply	2,550	2,550	2,550	2,550	2,550	2,550
Groundwater	2,550	2,550	2,550	2,550	2,550	2,550
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	126	112	114	87	45	5

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-71
WILLIAMSON County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	578,413	728,799	908,037	1,101,078	1,319,977	1,546,314

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	98,885	120,996	147,017	174,659	207,409	241,275
	Contractual Demand	9,744	10,328	11,035	12,172	13,566	15,020
	Municipal Existing Supply						
	Groundwater	10,893	10,851	10,776	10,946	11,058	11,125
	Surface water (Less Contractual Demand)[1]	107,524	111,137	111,201	109,869	111,461	113,129
	Total Existing Municipal Supply	118,417	121,987	121,977	120,814	122,519	124,253
	Municipal Balance	19,532	991	(25,040)	(53,845)	(84,890)	(117,022)
Industrial	Manufacturing Demand	599	584	576	572	571	570
	Manufacturing Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	788	788	788	788	788	788
	Total Manufacturing Supply	788	788	788	788	788	788
	Manufacturing Balance	189	204	212	216	217	218
	Steam-Electric Demand	996	1,243	1,556	1,892	2,274	2,670
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	935	1,062	1,204	1,403	1,687	1,982
	Total Steam-Electric Supply	935	1,062	1,204	1,403	1,687	1,982
	Steam-Electric Balance	(61)	(181)	(352)	(489)	(587)	(688)
	Mining Demand	577	719	900	1,095	1,315	1,544
	Mining Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	542	616	707	862	1,037	1,218
	Total Mining Supply	542	616	707	862	1,037	1,218
	Mining Balance	(35)	(103)	(193)	(233)	(278)	(326)
Agriculture	Irrigation Demand	834	1,034	1,290	1,566	1,882	2,210
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	797	906	1,027	1,247	1,500	1,762
	Total Irrigation Supply	797	906	1,027	1,247	1,500	1,762
	Irrigation Balance	(37)	(128)	(263)	(319)	(382)	(448)
	Livestock Demand	279	289	300	316	331	347
	Livestock Existing Supply						
	Groundwater	370	370	380	380	380	380
	Surface water	74	70	69	69	68	67
	Total Livestock Supply	444	440	449	449	448	447
	Livestock Balance	165	151	149	133	117	100
Total	Municipal & Industrial Demand	101,057	123,542	150,049	178,218	211,569	246,059
	Existing Municipal & Industrial Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	109,789	113,603	113,901	112,921	114,973	117,116
	Total Municipal & Industrial Supply	109,789	113,603	113,901	112,921	114,973	117,116
	Municipal & Industrial Balance	8,732	(9,939)	(36,148)	(65,297)	(96,596)	(128,943)
	Agriculture Demand	1,113	1,323	1,590	1,882	2,213	2,557
	Existing Agricultural Supply						
	Groundwater	370	370	380	380	380	380
	Surface water	871	976	1,096	1,316	1,568	1,829
	Total Agriculture Supply	1,241	1,346	1,476	1,696	1,948	2,209
	Agriculture Balance	128	23	(114)	(186)	(265)	(348)
	Total Demand	102,170	124,865	151,639	180,100	213,782	248,616
	Total Supply						
	Groundwater	370	370	380	380	380	380
	Surface water	110,660	114,578	114,997	114,237	116,542	118,945
	Total Supply	111,030	114,948	115,377	114,617	116,922	119,325
	Total Balance	8,860	(9,917)	(36,262)	(65,483)	(96,860)	(129,291)

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-72. WILLIAMSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
BARTLETT (P)						
Demand	197	205	217	232	251	270
Supply	39	39	39	39	39	39
Groundwater	39	39	39	39	39	39
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(158)	(166)	(178)	(193)	(212)	(231)
BELL-MILAM FALLS WSC (P)						
Demand	49	60	74	89	107	126
Supply	228	228	228	228	228	228
Groundwater	23	23	23	23	23	23
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	205	205	205	205	205	205
SW Constrained Supply	205	205	205	205	205	205
Balance	179	168	154	139	121	102
BLOCKHOUSE MUD						
Demand	845	828	819	814	812	811
Supply	1,098	1,098	1,098	1,098	1,098	1,098
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,098	1,098	1,098	1,098	1,098	1,098
SW Constrained Supply	1,098	1,098	1,098	1,098	1,098	1,098
Balance	253	270	279	284	286	287
BRUSHY CREEK MUD						
Demand	4,366	4,693	4,659	4,639	4,635	4,634
Supply	4,308	4,595	3,739	3,211	2,871	2,786
Groundwater	680	615	223	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,628	3,980	3,516	3,211	2,871	2,786
SW Constrained Supply	3,628	3,980	3,516	3,211	2,871	2,786
Balance	(58)	(98)	(920)	(1,428)	(1,764)	(1,848)
CEDAR PARK (P)						
Demand	14,753	16,263	16,182	16,154	16,140	16,133
Contractual Demand	2,890	3,012	3,133	3,242	3,343	3,455
Supply	15,840	15,840	15,840	15,840	15,840	15,840
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	15,840	15,840	15,840	15,840	15,840	15,840
SW Constrained Supply	15,840	15,840	15,840	15,840	15,840	15,840
Balance	(1,803)	(3,435)	(3,475)	(3,556)	(3,643)	(3,748)

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-72 Continued. WILLIAMSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
CHISHOLM TRAIL SUD (P)						
Demand	4,412	5,471	6,818	8,280	9,948	11,678
Contractual Demand	158	192	237	286	343	402
Supply	2,456	2,456	2,456	2,456	2,456	2,456
Groundwater	246	246	246	246	246	246
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,303	5,134	5,401	6,248	7,411	8,778
SW Constrained Supply	2,210	2,210	2,210	2,210	2,210	2,210
Balance	(2,114)	(3,207)	(4,599)	(6,110)	(7,835)	(9,624)
WILLIAMSON COUNTY-OTHER						
Demand	13,633	16,952	20,213	20,331	25,368	30,129
Contractual Demand	3	4	5	6	7	8
Supply	5,663	6,694	6,816	7,095	7,485	7,894
Groundwater	1,805	1,805	1,805	1,805	1,805	1,805
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	4,168	5,197	5,317	5,580	5,966	6,369
SW Constrained Supply	3,858	4,889	5,011	5,290	5,680	6,089
Balance	(7,973)	(10,262)	(13,402)	(13,242)	(17,890)	(22,243)
FERN BLUFF MUD						
Demand	1,216	1,204	1,196	1,191	1,189	1,189
Supply	1,153	1,043	943	930	930	930
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,153	1,043	943	930	930	930
SW Constrained Supply	1,153	1,043	943	930	930	930
Balance	(63)	(161)	(253)	(261)	(259)	(259)
FLORENCE						
Demand	119	121	125	132	141	152
Supply	60	60	60	60	60	60
Groundwater	60	60	60	60	60	60
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	(59)	(61)	(65)	(72)	(81)	(92)
GEORGETOWN						
Demand	15,944	19,787	24,665	29,960	36,006	42,273
Contractual Demand	100	116	131	145	158	172
Supply	17,644	17,709	18,101	18,324	18,324	18,324
Groundwater	115	180	572	795	795	795
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	30,143	32,160	31,851	30,214	29,804	29,156
SW Constrained Supply	17,529	17,529	17,529	17,529	17,529	17,529
Balance	1,600	(2,194)	(6,695)	(11,781)	(17,840)	(24,121)

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-72 Continued. WILLIAMSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
GRANGER						
Demand	212	220	232	247	268	289
Supply	99	99	99	99	99	99
Groundwater	99	99	99	99	99	99
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	(113)	(121)	(133)	(148)	(169)	(190)
HUTTO						
Demand	3,767	5,189	6,992	8,937	11,144	13,428
Supply	1,434	1,434	1,434	1,434	1,434	1,434
Groundwater	490	490	490	490	490	490
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	944	944	944	944	944	944
SW Constrained Supply	944	--	--	--	--	--
Balance	(2,333)	(3,755)	(5,558)	(7,503)	(9,710)	(11,994)
JARRELL						
Demand	109	129	156	187	222	259
Supply	109	129	156	187	222	259
Groundwater	109	129	156	187	222	259
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	-	-	-	-	-	-
JARRELL-SCHWERTNER WSC (P)						
Demand	461	561	690	833	1,000	1,174
Contractual Demand	106	125	151	181	215	251
Supply	1,316	1,418	1,572	1,534	1,524	1,509
Groundwater	83	83	83	83	83	83
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1,233	1,335	1,489	1,451	1,441	1,426
SW Constrained Supply	1,233	1,335	1,489	1,451	1,441	1,426
Balance	749	732	731	520	309	84
JONAH WATER SUD						
Demand	1,830	2,239	2,768	3,350	4,023	4,722
Contractual Demand	758	758	758	758	758	758
Supply	2,743	2,731	2,707	2,583	2,552	2,503
Groundwater	304	304	304	304	304	304
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	2,439	2,427	2,404	2,279	2,248	2,199
SW Constrained Supply	2,439	2,427	2,404	2,279	2,248	2,199
Balance	155	(266)	(819)	(1,525)	(2,229)	(2,977)

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Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-72 Continued. WILLIAMSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
LEANDER (P)						
Demand	4,905	8,145	13,470	21,914	27,724	34,098
Supply	5,197	5,197	5,197	5,197	5,197	5,197
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,197	5,197	5,197	5,197	5,197	5,197
SW Constrained Supply	5,197	--	--	--	--	--
Balance	292	(2,948)	(8,273)	(16,717)	(22,527)	(28,901)
LIBERTY HILL						
Demand	158	192	237	286	343	402
Supply	214	248	293	342	399	458
Groundwater	56	56	56	56	56	56
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	758	792	837	886	943	1,002
SW Constrained Supply	158	192	237	286	343	402
Balance	56	56	56	56	56	56
MANVILLE WSC						
Demand	1,452	1,789	2,220	2,691	3,233	3,794
Contractual Demand	727	727	727	727	727	727
Supply	5,350	5,323	5,282	5,319	5,335	5,335
Groundwater	5,350	5,323	5,282	5,319	5,335	5,335
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	3,171	2,807	2,335	1,901	1,375	814
PFLUGERVILLE						
Demand	76	95	118	144	173	203
Supply	76	95	118	144	173	203
Groundwater	76	95	118	144	173	203
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	-	-	-	-	-
Balance	-	-	-	-	-	-
ROUND ROCK (P)						
Demand	24,148	29,808	37,049	44,943	53,991	63,377
Contractual Demand	4,558	4,942	5,430	6,350	7,522	8,739
Supply	26,852	26,852	26,852	26,852	26,852	26,852
Groundwater	573	573	573	573	573	573
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	28,986	28,865	28,629	27,378	27,064	26,569
SW Constrained Supply	26,279	26,279	26,279	26,279	26,279	26,279
Balance	(1,853)	(7,898)	(15,627)	(24,441)	(34,661)	(45,263)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-72 Continued. WILLIAMSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
SOUTHWEST MILAM WSC (P)						
Demand	297	363	448	541	649	762
Supply	780	726	642	717	750	750
Groundwater	780	726	642	717	750	750
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	-	-	-	-	-	-
SW Constrained Supply	-	--	--	--	--	--
Balance	483	363	194	176	101	(12)
TAYLOR						
Demand	2,840	3,006	3,241	3,522	3,869	4,232
Contractual Demand	444	451	463	476	492	508
Supply	3,284	3,457	3,704	3,998	4,361	4,740
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	3,284	3,457	3,704	3,998	4,361	4,740
SW Constrained Supply	3,284	--	NC	NC	NC	NC
Balance	-	-	-	-	0	0
THORNDALE (P)						
Demand	1	1	1	1	1	1
Supply	1	1	1	1	1	1
Groundwater	1	1	1	1	1	1
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	1	1	1	1	1	1
SW Constrained Supply	-	-	-	-	-	-
Balance	0	0	0	0	0	0
THRALL						
Demand	89	95	105	116	130	145
Supply	89	95	105	116	130	145
Groundwater	6	6	6	6	6	6
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	83	89	99	110	124	139
SW Constrained Supply	83	89	99	110	124	139
Balance	-	-	-	-	-	-
WILLIAMSON-TRAVIS COUNTY MUD #1 (P)						
Demand	599	584	576	572	571	570
Supply	788	788	788	788	788	788
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	788	788	788	788	788	788
SW Constrained Supply	788	788	788	788	788	788
Balance	189	204	212	216	217	218

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

C-72 Continued. WILLIAMSON COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY MUD #10						
Demand	996	1,243	1,556	1,892	2,274	2,670
Supply	935	1,062	1,204	1,403	1,687	1,982
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	935	1,062	1,204	1,403	1,687	1,982
SW Constrained Supply	935	--	--	--	--	--
Balance	(61)	(181)	(352)	(489)	(587)	(688)
WILLIAMSON COUNTY MUD #11						
Demand	577	719	900	1,095	1,315	1,544
Supply	542	616	707	862	1,037	1,218
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	542	616	707	862	1,037	1,218
SW Constrained Supply	542	616	707	862	1,037	1,218
Balance	(35)	(103)	(193)	(233)	(278)	(326)
WILLIAMSON COUNTY MUD #9						
Demand	834	1,034	1,290	1,566	1,882	2,210
Supply	797	906	1,027	1,247	1,500	1,762
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	797	906	1,027	1,247	1,500	1,762
SW Constrained Supply	797	906	1,027	1,247	1,500	1,762
Balance	(37)	(128)	(263)	(319)	(382)	(448)

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Table C-73
YOUNG County
Population, Water Supply, and Water Demand Projections

Population Projection	Year					
	2020	2030	2040	2050	2060	2070
	15,966	16,915	17,598	18,317	19,019	19,697

	Supply and Demand by Type of Use	Year					
		2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	2070 (acft)
Municipal	Municipal Demand	3,425	3,543	3,626	3,740	3,872	4,006
	Contractual Demand	658	660	664	667	675	684
	Municipal Existing Supply						
	Groundwater	564	564	574	574	574	574
	Surface water (Less Contractual Demand)[1]	5,780	5,609	5,440	5,272	5,105	4,938
	Total Existing Municipal Supply	6,344	6,173	6,014	5,846	5,679	5,512
	Municipal Balance	2,919	2,630	2,388	2,106	1,807	1,506
Industrial	Manufacturing Demand	279	289	300	316	331	347
	Manufacturing Existing Supply						
	Groundwater	370	370	380	380	380	380
	Surface water	74	70	69	69	68	67
	Total Manufacturing Supply	444	440	449	449	448	447
	Manufacturing Balance	165	151	149	133	117	100
	Steam-Electric Demand	420	429	435	445	460	475
	Steam-Electric Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water[2]	396	396	396	396	396	396
	Total Steam-Electric Supply	396	396	396	396	396	396
	Steam-Electric Balance	(24)	(33)	(39)	(49)	(64)	(79)
	Mining Demand	2,666	2,764	2,830	2,918	3,018	3,119
	Mining Existing Supply						
	Groundwater	194	194	194	194	194	194
	Surface water	5,250	5,082	4,914	4,746	4,578	4,410
	Total Mining Supply	5,444	5,276	5,108	4,940	4,772	4,604
	Mining Balance	2,778	2,512	2,278	2,022	1,754	1,485
Agriculture	Irrigation Demand	60	61	61	61	63	65
	Irrigation Existing Supply						
	Groundwater	0	0	0	0	0	0
	Surface water	60	61	61	61	63	65
	Total Irrigation Supply	60	61	61	61	63	65
	Irrigation Balance	0	0	0	0	0	0
	Livestock Demand	1,903	2,093	2,289	2,491	2,705	2,917
	Livestock Existing Supply						
	Groundwater	842	842	842	842	842	842
	Surface water	513	555	579	630	686	737
	Total Livestock Supply	1,355	1,397	1,421	1,472	1,528	1,579
	Livestock Balance	(548)	(696)	(868)	(1,019)	(1,177)	(1,338)
Total	Municipal & Industrial Demand	6,790	7,025	7,191	7,419	7,681	7,947
	Existing Municipal & Industrial Supply						
	Groundwater	564	564	574	574	574	574
	Surface water	11,501	11,158	10,820	10,484	10,148	9,812
	Total Municipal & Industrial Supply	12,065	11,722	11,394	11,058	10,722	10,386
	Municipal & Industrial Balance	5,275	4,697	4,203	3,639	3,041	2,439
	Agriculture Demand	1,963	2,154	2,350	2,552	2,768	2,982
	Existing Agricultural Supply						
	Groundwater	842	842	842	842	842	842
	Surface water	573	616	640	691	749	802
	Total Agriculture Supply	1,415	1,458	1,482	1,533	1,591	1,644
	Agriculture Balance	(548)	(696)	(868)	(1,019)	(1,177)	(1,338)
	Total Demand	8,753	9,179	9,541	9,971	10,449	10,929
	Total Supply						
	Groundwater	1,406	1,406	1,416	1,416	1,416	1,416
	Surface water	12,074	11,774	11,460	11,175	10,897	10,614
	Total Supply	13,480	13,180	12,876	12,590	12,312	12,029
	Total Balance	4,727	4,001	3,335	2,619	1,863	1,100

[1] Contractual demands are subtracted from the supplies available to municipal water user groups in order to not double-count demands and supplies available within a County.

C-74. YOUNG COUNTY
Brazos G Regional Water Planning Area
Municipal Water Demand & Supply By City/County
(acft)

City	2020	2030	2040	2050	2060	2070
YOUNG COUNTY-OTHER						
Demand	279	289	300	316	331	347
Contractual Demand	57	62	67	70	77	85
Supply	444	440	449	449	448	447
Groundwater	370	370	380	380	380	380
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	74	70	69	69	68	67
SW Constrained Supply	74	70	69	69	68	67
Balance	108	89	82	63	40	15
FORT BELKNAPP WSC (P)						
Demand	420	429	435	445	460	475
Supply	396	396	396	396	396	396
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	396	396	396	396	396	396
SW Constrained Supply	396	396	396	396	396	396
Balance	(24)	(33)	(39)	(49)	(64)	(79)
GRAHAM						
Demand	2,666	2,764	2,830	2,918	3,018	3,119
Contractual Demand	601	598	597	597	598	599
Supply	3,806	3,806	3,806	3,806	3,806	3,806
Groundwater	194	194	194	194	194	194
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	5,250	5,082	4,914	4,746	4,578	4,410
SW Constrained Supply	3,612	3,612	3,612	3,612	3,612	3,612
Balance	539	444	379	291	190	88
NEWCASTLE						
Demand	60	61	61	61	63	65
Supply	60	61	61	61	63	65
Groundwater	-	-	-	-	-	-
GW Constrained Supply	NC	NC	NC	NC	NC	NC
Surface water	60	61	61	61	63	65
SW Constrained Supply	60	61	61	61	63	65
Balance	-	-	-	-	-	-

(P) Indicates city is in multiple counties. Projections shown are for this county's portion only.
Dash represents a value of zero (0)
NC indicates the supply is "not constrained"

Appendix D
Water Rights-Permitted and Actual Use

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Table D-1: Water Rights - Permitted and Actual Use

						Reported Use		
Water Right	County	Water Right Holder	Water Source (Lake/River)	Use	Permitted Amount	2011	2012	2013
1660	Callahan	CITY OF CLYDE	LAKE CLYDE	MUN	1,000	123	48	166
2315	McLennan	CITY OF WACO	LAKE WACO	MUN	58,200	38,006	35,099	35,882
				IND	16,802	0	0	0
				IRR	900	992	950	655
2936	Bell	U S DEPT OF THE ARMY	LAKE BELTON	MUN	12,000	6,914	5,925	5,201
2938	Bell	CITY OF TEMPLE	BELTON RESERVOIR	MUN	35,804	17,680	13,921	14,701
				IND		0	577	633
2971	Lampasas	CITY OF LAMPASAS	SULPHUR CREEK	MUN	3,760	0	0	90
3440	Knox	LEAGUE RANCH	LAKE DAVIS, LAKE CATHERINE	IRR	2,031	0	0	0
				Other		0	0	0
3458	Young	CITY OF GRAHAM	LAKE EDDLEMAN/LAKE GRAHAM	MUN	11,000	5,358	2,274	3,273
				IND	8,400	0	0	0
				IRR	100	0	0	0
				MIN	500	0	0	0
3468	Eastland	EASTLAND INDUSTRIAL FOUNDATION, EBBA IRON INC.	LAKE OLDEN	MIN	1,607	0	0	265
3470	Eastland	EASTLAND CO WSD	LAKE LEON	MUN	5,450	0	0	0
				IND	350	0	0	0
				IRR	500	0	0	0
3718	Kent	OCCIDENTAL PERMIAN LTD	DBL MTN FRK BRAZOS RIVER	MIN	5,900	22	23	0
3724	Haskell	FRANCES DAVIS	DBL MTN FRK BRAZOS RIVER	IRR	1,016	0	0	0
3758	Milam	ALCOA INC	LAKE ALCOA	IND	18,000	6,677	10,660	9,383
3761	Milam	CITY OF CAMERON	LITTLE RIVER	MUN	2,792	1,384	1,154	972
3773	Milam	ARLEDGE & SHANAHAN LP	LITTLE RIVER	IRR	1,300	1,080	0	150
3775	Milam	JESSE ROBERTSON/LLOYD E LEIFESTE ET UX	LITTLE RIVER	IRR	1,767	128	176	66
4013	Palo Pinto	ROCKING WRANCH LP, DALTON BEND RANCH LTD	BRAZOS RIVER	IRR	1,329	304	288	329
4031	Palo Pinto	PALO PINTO CO MWD 1	LAKE PALO PINTO	MUN	12,500	4,497	4,189	3,948
				IND	6,000	0	0	0
4087	Comanche	DON FRAZIER CLARK ET AL, LELAND A HODGES ET AL	COPPERAS CREEK	IRR	1,060	0	0	0
4097	Somervell	TXU ELECTRIC CO	SQUAW CREEK RESERVOIR	IND	23,180	19,548	22,280	20,514
4104	Bosque	CHISHOLM TRAIL VENTURES LP	BRAZOS RIVER	IRR	3,811	1,370	370	320
4106	Johnson	CITY OF CLEBURNE	LAKE PAT CLEBURNE	MUN	5,760	5,526	4,458	2,113
				IRR	240	126	212	164
				IND		0	0	0
4128	Nolan	CITY OF SWEETWATER	LAKE TRAMMEL	MUN	2,000	0	0	0
4130	Nolan	CITY OF SWEETWATER	LAKE SWEETWATER	MUN	2,730	0	0	0
				IND	960	0	0	0
				IRR	50	82	242	248
4142	Taylor	CITY OF ABILENE	LAKE ABILENE	MUN	1,675	0	0	0
4150	Taylor	CITY OF ABILENE	LAKE KIRBY	MUN	3,880	0	0	0
				IND		0	0	0
				IRR		1,422	113	37
4151	Taylor	AEP TEXAS NORTH COMPANY	UPPER LYTLE LAKE	IND	2,500	0	0	0
4161	Jones	CITY OF ABILENE	FORT PHANTOM HILL RES	MUN	25,690	8,993	4,739	3,273
				IND	4,000	14	42	48
				IRR	1,000	8	4	3
4165	Jones	CITY OF ABILENE	DEADMAN CRK	MUN	3,000	0	0	0
4179	Haskell	CITY OF STAMFORD	LAKE STAMFORD, COLLEGE LAKE	MUN	10,000	888	801	748
				IND		0	0	0
				Other		0	0	0
4211	Eastland	CITY OF CISCO	LAKE CISCO	MUN	1,971	854	776	676
				IND	56	0	0	0
4212	Eastland	CITY OF CISCO	BATTLE CRK	MUN	1,000	12	167	10
4213	Stephens	WEST CENTRAL TEXAS MWD	HUBBARD CREEK LAKE	MUN	56,000	18,762	22,075	20,883
				IND		0	0	0
				IRR		0	0	0
				MIN		52	45	74
				D&L		0	0	817
4214	Stephens	CITY OF BRECKENRIDGE	LAKE DANIEL	MUN	2,100	6	119	0
4235	McLennan	HOLY LAND & CATTLE, GLEN MARECEK ET AL	BRAZOS RIVER	IRR	2,600	62	606	1,717
4270	Falls	WALSH RANCH LTD PARTENRSHIP	BRAZOS RIVER	IRR	1,851	0	0	0
4276	Falls	ROBERT L. MACHA, ET AL	BRAZOS RIVER	IRR	1,200	0	0	0
4283	Brazos	KR SOD-BRAZOS LP; HARVERST GUARD LP; TED HIGGINBOTTOM, ET AL	BRAZOS RIVER	IRR	5,440	652	1,534	789
4318	Bosque	SMITH BEND RANCH LTD/LAKEVIEW RECREATION ASSOCIATION INC/CHS FARMS LTD/JOHN MCPHERSON ET AL	BRAZOS RIVER	IRR	2,820	1,393	2,026	2,151
				IND		0	0	0
4340	McLennan	CITY OF WACO	BRAZOS RIVER	MUN	5,600	5	0	0

Water Right	County	Water Right Holder	Water Source (Lake/River)	Use	Permitted Amount	Reported Use 2011	2012	2013
4342	McLennan	TRADINGHOUSE POWER CO LLC	TRADINGHOUSE CREEK LAKE and BRAZOS RIVER	IND	27,000	0	0	0
4344	McLennan	LOLA ROBINSON	TEHUACANA CRK	IRR	1,060	1,060	1,060	1,060
4345	McLennan	LUMINANT GENERATION CO LLC	LAKE CREEK	IND	10,000	0	0	0
4355	Falls	CITY OF MARLIN	NEW MARLIN RES, BRUSHY CREEK RES	MUN	6,000	763	605	553
				IND	2,000	0	0	553
				REC		0	0	0
4363	Robertson	JOE REISTINO ESTATE	BRAZOS RIVER	IRR	1,500	500	1,500	0
4364	Robertson	CLIFF A SKILES JR	LTL BRAZOS RIVER	IRR	724	694	720	674
4398	Robertson	GATHAN REISTINO	BRAZOS RIVER	IRR	1,500	0	0	0
4589	Jones	CITY OF ABILENE	DEADMAN CRK	IRR	4,330	381	169	55
4591	Milam	WARRENS TURF NURSERY, INC; HILLARD RANCHES, INC; JAMES K. WILSON, ET AL	LITTLE RIVER	IRR	52	0	0	0
				IRR	606	0	0	0
				IRR	91	0	0	0
5085	McLennan	CITY OF ROBINSON	BRAZOS RIVER	MUN	13,100	824	567	388
5094	McLennan	CITY OF WACO	LAKE WACO	MUN	20,700	0	0	0
5155	Palo Pinto	BRAZOS RIVER AUTHORITY	POSSUM KINGDOM LAKE	MUN	230,750	2,736	998	1,323
				IND		60,445	5,454	12,322
				IRR		16,554	3,459	4,113
				MIN		2,083	1,601	2,595
				Other		241	45	107
5156	Hood	BRAZOS RIVER AUTHORITY	LAKE GRANBURY	MUN	64,712	8,263	5,849	5,752
				IND		45,006	45,000	44,939
				IRR		5,949	4,483	3,493
				MIN		479	200	0
5157	Hill	BRAZOS RIVER AUTHORITY	LAKE WHITNEY	MUN	18,336	3,497	779	1,617
				IND		24,514	19,232	24,921
5158	Hill	BRAZOS RIVER AUTHORITY	LAKE AQUILLA	MUN	13,896	6,743	5,451	7,288
				IND		0	0	0
				MIN		0	0	0
5159	Comanche	BRAZOS RIVER AUTHORITY	LAKE PROCTOR	MUN	19,658	3,306	2,868	2,607
				IND		0	0	0
				IRR		4,908	7,858	5,582
				MIN		0	0	0
5160	Bell	BRAZOS RIVER AUTHORITY	LAKE BELTON	MUN	100,257	59,548	53,637	55,734
				IND		9,726	7,176	26,453
				IRR		6,273	247	1,741
				MIN		0	0	0
5161	Bell	BRAZOS RIVER AUTHORITY	LAKE STILLHOUSE HOLLOW	MUN	67,768	65,194	28,182	26,241
				IND		8,107	0	2
				IRR		27,841	360	12
				MIN		0	0	0
5162	Williamson	BRAZOS RIVER AUTHORITY	LAKE GEORGETOWN	MUN	13,610	13,441	13,444	13,443
				IND		0	0	0
				IRR		0	0	0
				MIN		0	0	0
5163	Williamson	BRAZOS RIVER AUTHORITY	LAKE GRANGER	MUN	19,840	4,262	3,453	3,548
				IND		602	0	3,351
				IRR		0	0	0
				MIN		0	0	0
5164	Washington	BRAZOS RIVER AUTHORITY	LAKE SOMERVILLE	MUN	48,000	7,033	3,271	3,251
				IND		29,459	4,069	15,523
				IRR		5,015	0	17,607
				MIN		0	12	8
5165	Robertson	BRAZOS RIVER AUTHORITY	LAKE LIMESTONE	MUN	65,074	2,680	1,091	994
				IND		60,118	43,838	41,575
				IRR		1,052	362	393
				MIN		28	16	37
5268	Brazos	CITY OF BRYAN	THOMPSONS CRK	IND	850	0	0	0
5271	Burleson	TEXAS A&M UNIVERSITY	MIDDLE BAYOU	IND	420	0	0	0
				IRR	1,200	290	213	281
5272	Milam	ALUMINUM COMPANY OF AMERICA	ALCOA LAKE	IND	14,000	0	0	0
5287	Limestone	BISTONE MUNICIPAL WSD	LAKE MEXIA and NAVASOTA RIVER	MUN	2,887	125	0	0
				IND	65	0	0	0
5289	Limestone	CITY OF GROESBECK	NAVASOTA RIVER	MUN	2,500	736	0	567
5298	Robertson	TXU	DUCK CREEK	IND	13,200	12,346	10,933	11,603
5307	Grimes	TEXAS MUNICIPAL POWER AGENCY	NAVASOTA RIVER	IND	6,000	3,277	3,245	5,044
5311	Grimes	TEXAS MUNICIPAL POWER AGENCY	GIBBONS CREEK RES	IND	9,740	4,751	3,392	5,610
5447	Palo Pinto	PALO PINTO CO MWD 1	BRAZOS RIVER	REC	1,153	0	0	0
5470	Robertson	CLIFFORD A SKILES JR ET UX	BRAZOS RIVER	IRR	514	510	514	510
5551	Bosque	CITY OF CLIFTON	N BOSQUE RIVER	MUN	2,004	567	483	209
5744	Somervell	SOMERVELL COUNTY WATER DISTRICT	WHEELER BRANCH	MUN	2,000	67	488	479

						Reported Use		
Water Right	**County**	**Water Right Holder**	**Water Source (Lake/River)**	**Use**	**Permitted Amount**	**2011**	**2012**	**2013**
5912	Brazos	CITY OF BRYAN	BURTON, STILL, TURKEY, CARTERS, NAVASOTA, BRAZOS	MUN	14,282	0	0	0
5913	Brazos	CITY OF COLLEGE STATION	CARTERS CRK, LICK CRK, NAVASOTA RIVER, BRAZOS RIVER	MUN	12,881	0	0	0

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Appendix E
Detailed Description of Vegetative Regions and Biotic Provinces

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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.[1] 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.[2] 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 forbs of these prairies.[3]

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*).[4] 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.[5]

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

[1] Gould, 1975.
[2] Gould, 1975 and Correll, S.S. and Johnston, M.C., *Manual of the Vascular Plants of Texas*, University of Texas at Dallas, 1970.
[3] Hatch, S.L., Ghandi, K.N. and Brown, L.E., *Checklist of the Vascular Plants of Texas*, Texas Agricultural Experiment Station, Texas A&M University, College Station, Texas, 1990.
[4] Hatch, et. al., 1990.
[5] Gould, 1975.

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.).[6]

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.[7]

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*).[8]

[6] Correll and Johnston, 1970 and Gould, 1975.
[7] Correll and Johnston, 1970 and Hatch, et. al., 1990.
[8] Hatch, et. al., 1990.

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*).

Table E-1. Federal and State-Listed Threatened and Endangered Species of Potential Occurrence in the BGRWPA

Common Name	*Scientific Name*	*USFWS/State*	*County of Occurrence*
Amphibians			
Georgetown Salamander	*Eurycea naufragia*	T/--	Wi
Houston Toad	*Bufo houstonensis*	LE/E	Br, Bu, Le, Mi, Ro, Wa
Jollyville Plateau Salamander	*Eurycea tonkawae*	T/--	Wi
Salado Springs Salamander	*Eurycea chisholmensis*	T/--	Be, Wi
Southern Crawfish Frog	*Lithobates areolatus areolatus*	--/--	Br, Bu, Wi
Crustaceans			
An amphipod	*Stygobromus russelii*	--/--	WI
Bifurcated cave amphipod	*Stygobromus bifurcates*	--/--	Wi
Ezell's cave amphipod	*Stygobromus flagellatus*	--/--	Wi
Reptiles			
Alligator Snapping Turtle	*Macroclemys temminckii*	--/T	Br, Bu, Fa, Gr, Li, Mi, Ro, Wa
Brazos Water Snake	*Nerodia harteri*	--/T	Bo, Er, Hs, Hi, Ho, Jn, Jo, Kn, Pa, Sh, Sn, So, St, Th, Yo
Concho Water Snake	*Nerodia paucimaculata*	DL/--	La
Spot-tailed Earless Lizard	*Holbrookia lacerata*	--/--	Le, No, Ta, Wi
Texas Garter Snake	*Thamnophis sirtalis annectens*	--/--	Be, Bo, Cr, Fa, Hi, Ho, Jo, Le, Li, Mc, Mi, So, Wi
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, Sn, So, St. Ta, Th, Wa, Wi, Yo
Timber Rattlesnake	*Crotalus horridus*	--/T	Bo, Br, Bu, Cr, Ea, Fa, Gr, Hi, Ho, Jo, Le, Li, Mc, Mi, Ro, So, Wa, Wi
Arachnids			
Bandit Cave Spider	*Cicurina bandida*	--/--	WI
Bone Cave Harvestman	*Texella reyesi*	LE/--	Wi
Insects			
A mayfly	*Pseudocentroptiloides morihari*	--/--	Wi
Coffin Cave Mold Beetle	*Batrisodes texanus*	LE/--	Wi
Gulf Coast Clubtail	*Gomphus modestus*	--/--	Br
Leon River Winter Stonefly	*Taeniopteryx starki*	--/--	Cr, Ha
Smoky shadowfly	*Neurocordulia molesta*	--/--	Br
Tooth Cave Ground Beetle	*Rhandine peresphone*	LE/--	Wi
Birds			
American Peregrine Falcon	*Falco peregrinus anatum*	DL/T	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha,

Common Name	*Scientific Name*	*USFWS/State*	*County of Occurrence*
			Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Ro, So, Sh, St, Sn, Ta, Th, Wa, Wi, Yo
Arctic Peregrine Falcon	*Falco peregrinus tundrius*	DL/--	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
Baird's Sparrow	*Ammodramus bairdii*	--/--	Ca, Co, Ea, Fi, Hs, Ho, Jn, Ke, Kn, No, Sh, St, Sn, Ta, Th, Yo
Bald Eagle	*Haliaeetus leucocephalus*	DL/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
Black-capped Vireo	*Vireo atricapillus*	LE/E	Be, Bo, Ca, Co, Cr, Ea, Er, Ha, Ho, Jo, La, No, Pa, So, St, Ta, Wi
Ferruginous Hawk	*Buteo regalis*	--/--	Fi, Hs, Jn, Ke, Kn, No, Sn, Ta
Golden-cheeked Warbler	*Setophaga chrysoparia*	LE/E	Be, Bo, Co, Cr, Ea, Er, Ha, Hi, Ho, Jo, La, Mc, Pa, So, St, Wi, Yo
Henslow's Sparrow	*Ammodramus henslowii*	--/--	Be, Br, Bu, Fa, Gr, Hi, Jo, Le, Li, Mc, Mi, Ro, Wa
Interior Least Tern	*Sterna antillarum athalassos*	LE/E	Be, Bo, Br, Bu, Co, Fa, Gr, Hs, Hi, Ho, Jo, Kn, La, Le, Li, Mc, Mi, Pa, Ro, So, St, Wa, Yo
Mountain Plover	*Charadrius montanus*	--/--	Be, Bo, Ca, Co, Cr, Ea, Er, Fi, Ha, Hs, Ho, Jn, Ke, Kn, La, No, Pa, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
Peregrine Falcon	*Falco peregrinus*	DL/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
Red-cockaded Woodpecker	*Picoides borealis*	LE/E	Gr
Red Knot	Calidris canutus rufa	T/--	Be, Br, Bu, Fa, Gr, Hi, Jo, Le, Li, Mc, Mi, Ro, Wa, Wi
Snowy Plover	Charadrius alexandrinus	--/--	Fi, Hs, Jn, Ke, Kn, No, Sn, Ta
Sprague's Pipit	*Anthus spragueii*	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
Western Burrowing Owl	*Athene cunicularia hypugaea*	--/--	Be, Bo, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Le, Li, Mc, Mi, No, Pa, Sh, So, St, Sn, Ta, Th, Wa, Wi, Yo
Western Snowy Plover	*Charadrius alexandrinus nivosus*	--/--	Fi, Hs, Jn, Ke, Kn, No, Sn, Ta
White-faced Ibis	*Plegadis chihi*	--/T	Fa, Gr, Hi, Jo, Li, Mc, Wa
Whooping Crane	*Grus americana*	LE/E	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, Sn, So, St, Ta, Th, Wa, Wi, Yo
Wood Stork	*Mycteria americana*	--/T	Br, Bu, Fa, Gr, Hi, Le, Li, Mc, Mi, Ro, Wa
Fishes			
Blue Sucker	*Cycleptus elongatus*	--/T	Br, Bu, Gr, Mi, Ro, Wa
Guadalupe Bass	*Micropterus treculii*	--/--	Be, Bo, Cr, La, Mc, Mi, Pa, Wi
Sharpnose Shiner	*Notropis oxyrhynchus*	LE/--	Bo, Br, Bu, Fa, Fi, Gr, Hs, Hi, Ho, Jo, Jn, Ke, Kn, Mc, Mi, Pa, Ro, Sn, So, Th, Wa, Wi, Yo

Common Name	*Scientific Name*	*USFWS/State*	*County of Occurrence*
Smalleye Shiner	*Notropis buccula*	LE/--	Be, Bo, Br, Bu, Co, Cr, Ea, Er, Fa,, Fi, Ha, Hs, Hi, Ho, Jo, Jn, Ke, Kn, La, Li, Mc, Mi, Pa, Ro, Sh, Sn, So, St, Th, Wa, Wi, Yo
Mammals			
Black Bear	*Ursus americanus*	T-SA;NL/T	Ho
Black-footed Ferret	*Mustela nigripes*	LE/--	Fi, Hs, Jn, Ke, Kn, No, Sn
Black-tailed Prairie Dog	*Cynomys ludovicianus*	--/--	Ca, Fi, Hs, Jn, Ke, Kn, No, Sh, Sn, Ta, Th, Yo
Cave Myotis Bat	*Myotis velifer*	--/--	Be, Bo, Bu, Ca, Co, Cr, Ea, Fa,, Fi, Ha, Hs, Hi, Jn, Ke, Kn, La, Le, Mc, Mi, No, Sh, Sn, St, Ta, Th, Wi, Yo
Gray Wolf	*Canis lupus*	LE/E	Extirpated, Formerly in Ca, Co, Ea, Er, Fi, Ha, Hs, Ho, Jo, Jn, Ke, Kn, La, No, Pa, Sh, Sn, So, St, Ta, Th, Yo
Llano pocket gopher	*Geomys texensis texensis*	--/--	La
Louisiana Black Bear	*Ursus americanus luteolus*	LT/T	Br, Bu, Gr, Ro, Wa
Pale Townsend's Big-eared bat	*Corynorhinus townsendii pallescens*	--/--	Fi, Hs, Ke, Kn, Sn
Plains Spotted Skunk	*Spilogale putorius interrupta*	--/--	Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Fi, Gr, Ha, Hs, Ho, Hi, Jo, Jn, Ke, Kn, Le, Li, Mc, Mi, No, Pa, Ro, Sh, Sn, So, St, Ta, Th, Wa, Wi, Yo
Red Wolf	*Canis rufus*	LE/E	Extirpated, formerly in Be, Bo, Br, Bu, Ca, Co, Cr, Ea, Er, Fa, Gr, Ha, Hs, Hi, Ho, Jo, Jn, Kn, La, Le, Li, Mc, Mi, Pa, Ro, Sh, So, St, Ta, Th, Wa, Wi, Yo
Southeastern Myotis Bat	*Myotis austroriparius*	--/--	Gr
Texas Kangaroo Rat	*Dipodomys elato*	--/T	Kn, Yo
Mollusks			
False spike mussel	*Quadrula mitchelli*	--/T	Be, Bo, Br, Bu, Co, Cr, Fa, Gr, Ha, La, Le, Li, Mc, Mi, Ro, Wa, Wi,
Smooth pimpleback	*Quadrula houstonensis*	C/T	Be, Bo, Br, Bu, Co, Cr, Fa, Gr, Ha, Hi, La, Le, Li, Mc, Mi, Ro, Sh, Wa, Wi
Texas fawnsfoot	*Truncilla macrodon*	C/T	Be, Bo, Br, Bu, Cr, Ea, Er, Fa, Gr, Ha, Hs, Hi, Ho, Jo, Jn, La, Le, Li, Mc, Mi, Pa, Ro, Sh, So, St, Th, Wa, Wi, Yo
Texas pimpleback	*Quadrula petrina*	C/T	La
Plants			
Branched gayfeather	*Liatris cymosa*	--/--	Br, Bu, Gr, Le, Wa
Bristle nailwort	*Paronychia setacea*	--/--	Br, Le, Mi
Comanche Peak prairie-clover	*Dalea reverchonii*	--/--	Ho
Correll's wild-buckwheat	*Erigonum correllii*	--/--	Kn
Dwarf broomspurge	*Chamaesyce jejuna*	--/--	No

Common Name	*Scientific Name*	*USFWS/State*	*County of Occurrence*
Elmendorf's onion	*Allium elmendorfii*	--/--	WI
Glen Rose yucca	*Yucca necopina*	--/--	Ho, So, Yo
Green beebalm	*Monarda viridissma*	--/--	Le, Wa
Large-fruited sand verbena	*Abronia macrocarpa*	LE/E	Ro
Llano butterweed	*Packera texensis*	--/--	Ca
Navasota false foxglove	*Agalinis navasotensis*	--/--	Gr
Navasota ladies'-tresses	*Sprianthes parksii*	LE/E	Br, Bu, Gr, Li, Mi, Ro, Wa
Panicled Indigobush	*Amorpha paniculata*	--/--	Ro
Parks' jointweed	*Polygonella parksii*	--/--	Bu, Mi, Ro
Sandhill woolywhite	*Hymenopappus carrizoanus*	--/--	Ro
Shinner's sunflower	*Helianthus occidentalis ssp plantagineus*	--/--	Le, Wa
Small-headed pipewort	*Eriocaulon koernickianum*	--/--	Br, Li
Texabama croton	*Croton alabamensis var. texensis*	--/--	Be, Cr
Texas meadow-rue	*Thalictrum texanum*	--/--	Br, Gr, Wa
Texas windmill-grass	*Chloris texensis*	--/--	Br
Warnock's coral root	*Hexalectris warnockii*	--/--	Ta

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	Hs:	Haskell	No:	Nolan
Bo:	Bosque	Hi:	Hill	Pa:	Palo Pinto
Br:	Brazos	Ho:	Hood	Ro:	Robertson
Bu:	Burleson	Jo:	Johnson	Sh:	Shackelford
Ca:	Callahan	Jn:	Jones	So:	Somervell
Co:	Comanche	Ke:	Kent	St:	Stephens
Cr:	Coryell	Kn:	Knox	Sn:	Stonewall
Ea:	Eastland	La:	Lampasas	Ta:	Taylor
Er:	Erath	Le:	Lee	Th:	Throckmorton
Fa:	Falls	Li:	Limestone	Wa:	Washington
Fi:	Fisher	Mc:	McLennan	Wi:	Williamson
Gr:	Grimes	Mi:	Milam	Yo:	Young
Ha:	Hamilton				

Data obtained from the Texas Parks and Wildlife Department, Rare, Threatened and Endangered Species of Texas, http://tpwd.texas.gov/gis/rtest/ April 22, 2015.

Appendix F
Detailed Information for Agricultural Resources

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Irrigation

Surveys of the BGRWPA counties were completed in 1994 by the TWDB and in 1997 and 2002 by the US Department of Commerce (Census of Agriculture). The total irrigated acreage for the BGRWPA was 214,096 acres in the 1994 survey, 202,442 acres in the 1997 survey, and 207,102 acres in 2002. Irrigated acreage declined from 1994 to the current time in the Cross Timbers Region by 19,600 acres. This decline was a result of a change in the governmental peanut program in the 1995 Farm Bill. The peanut-poundage quota was allowed to transfer across county lines, with the result that a significant portion of the peanut quota from the peanut growing counties of the Cross Timbers was moved to West Texas where the profits were greater from higher yields and lower costs of production. The movement of the peanut quota is thought to be the primary reason for the decrease of 21,128 irrigated acres in Comanche County. This decrease should not be regarded as a trend; the peanut quota transfer is largely complete (only 40 percent of the quota is allowed to transfer out of a county). The irrigated acres may increase in the future as profitable field, tree and horticultural irrigated crops increase. None of the irrigated acreage decrease was the result of a transfer of irrigation water to municipal use. The town of Comanche is not expanding into farmland with peanut production. Most of the irrigation water was from the Trinity Aquifer from individual wells and pumps. Some peanuts are irrigated with surface water from the Leon River and Lake Proctor.

Irrigated acreage decreased in Rolling Plains by 13,047 acres since 1994. The region is exhibiting a trend toward dry land crops such as small grains, hay and silage. Haskell and Knox Counties are the largest irrigating counties in the BGRWPA totaling 53,927 acres which declined 11,975 acres since 1994.

The Blackland, and Southeast and Central Regions showed an increase of irrigation acreage. Most of these counties are located along the Brazos River. Corn acreage increased to more than 450,000 acres in the Blacklands, an increase of 181,439 acres over 1994. Corn is a large water user. A full season (120 days) commercial hybrid requires approximately 20 to 25 gallons from seedling to maturity. Multiplied by a final population of 22,000 to 26,000 plants per acre, classifies corn as a high maintenance crop.

Livestock

The Cross Timbers region is a major dairy area of the state. Erath County is the leading county in milk production, Comanche County ranks third, Hamilton County is sixth and Johnson County ranks eighth. The 199 farms in these four counties produce over 38 percent of the milk in Texas in 2002. 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 118,106 milking cows is 1,087 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 2002 were beef cattle, swine, and sheep. Total number of swine and sheep of all ages were 21,825 and 59,734, respectively. Beef cows numbered 784,668 head and all cattle and calves totaling 2,392,991.

Table F-1. 2012 Agricultural Production Statistics

Agricultural District	*Market Value ($1,000)*			*Livestock*	*Area (acres)*			
	Crops	*Livestock*	*Total*	*% value*	*Farmland*	*Cropland*	*Harvested*	*Irrigated*
Rolling Plains (2N and 2S)								
Fisher	20,153	10,935	31,088	35%	494,955	210,142	95,249	2,553
Haskell	28,616	10,056	38,672	26%	567,156	298,475	138,173	27,500
Jones	29,683	13,601	43,284	31%	562,944	301,915	157,252	3,576
Kent	*	6,227	6,227	100%	563,124	39,336	*	1,092
Knox	19,127	39,885	59,012	68%	450,631	189,671	113,977	21,583
Nolan	12,395	11,432	23,827	48%	465,160	118,218	60,198	3,307
Stonewall	2,525	44,921	47,446	95%	472,890	79,495	15,103	741
Taylor	10,421	27,204	37,625	72%	578,912	158,876	69,768	1,095
Subtotal, Rolling Plains	*122,920*	*164,261*	*287,181*	*57%*	*4,155,772*	*1,396,128*	*649,720*	*61,447*
Cross Timbers (3)								
Callahan	5,837	24,064	29,901	80%	563,179	87,203	39,733	704
Comanche	26,780	131,355	158,135	83%	517,135	133,827	75,520	18,101
Eastland	8,508	19,366	27,874	69%	503,633	91,499	51,561	8,930
Erath	18,473	237,972	256,445	93%	607,550	124,379	81,280	12,337
Hood	8,557	10,185	18,742	54%	224,225	43,336	29,423	2,821
Palo Pinto	9,900	43,887	53,787	82%	593,309	55,421	30,148	712
Shackelford	2,589	19,744	22,333	88%	505,228	54,965	19,267	*
Somervell	1,183	3,120	4,303	73%	91,368	12,296	7,618	59
Stephens	1,069	8,148	9,217	88%	516,748	54,403	7,606	*

Throckmorton	8,724	16,114	24,838	65%	508,002	107,555	64,131	*
Young	7,999	15,693	23,692	66%	523,673	97,793	47,139	229
Subtotal, Cross Timbers	*99,619*	*529,648*	*629,267*	*84%*	*5,154,050*	*862,677*	*453,426*	*43,893*
Blacklands (4)								
Bell	58,592	26,287	84,879	31%	421,362	170,451	146,737	3,084
Bosque	50,172	28,124	78,296	36%	569,644	70,328	42,113	656
Coryell	16,183	52,367	68,550	76%	463,039	85,751	59,098	420
Falls	55,025	80,271	135,296	59%	382,651	174,274	136,150	5,069
Hamilton	10,717	45,111	55,828	81%	445,777	75,612	48,244	619
Hill	80,466	39,474	119,940	33%	504,129	231,885	204,309	920
Johnson	19,919	58,931	78,850	75%	428,958	119,878	96,373	2,386
Lampasas (7)	2,924	13,214	16,138	82%	444,755	50,255	18,874	166
Limestone	12,346	35,938	48,284	74%	486,787	80,867	55,553	330
McLennan	74,815	108,267	183,082	59%	553,517	243,981	206,616	3,509
Milam	38,485	106,243	144,728	73%	527,871	143,011	109,855	2,486
Williamson	74,987	54,661	129,648	42%	558,622	211,581	182,106	1,281
Subtotal, Blacklands	*494,631*	*648,888*	*1,143,519*	*57%*	*5,787,112*	*1,657,874*	*1,306,028*	*20,926*
Southeast and Central (5S and 8N)								
Brazos	12,410	82,587	94,997	87%	299,108	41,904	31,487	7,291
Burleson	34,301	55,758	90,059	62%	335,346	81,183	64,742	19,598
Grimes	11,057	36,996	48,052	77%	417,142	56,734	42,300	1,609
Lee	12,870	25,691	38,561	67%	318,216	44,136	32,721	940
Robertson	33,205	103,239	136,444	76%	467,568	107,891	85,828	19,679
Washington	11,393	34,334	45,727	75%	368,823	89,366	60,770	1,438
Subtotal, Southeast and Central	*115,236*	*338,605*	*453,841*	*75%*	*2,206,203*	*421,214*	*317,848*	*50,555*
Region Totals	***832,406***	***1,681,402***	***2,513,808***	***67%***	***17,303,137***	***4,337,893***	***2,727,022***	***176,821***

Source: 2012 Census of Agriculture

http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_2_County_Level/Texas/

Table F-2. Livestock Numbers—2007 Census of Agriculture

Agricultural District	*Cattle and Calves*	*Beef Cows*	*Dairy Cows*	*Swine*	*Sheep*
Rolling Plains (2N and 2S)					
Fisher	19,725	9,903	32	66	597
Haskell	16,119	5,707	0	*	*
Jones	25,852	12,876	20	100	1,076
Kent	11,865	8,893	0	*	78
Knox	34,799	8,702	0	17	0
Nolan	13,257	*	*	146	179
Stonewall	17,152	8,834	0	*	*
Taylor	32,336	13,944	0	323	1,954
Subtotal, Rolling Plains	*171,105*	*68,859*	*52*	*652*	*3,884*
Cross Timbers (3)					
Callahan	37,809	*	*	177	3,006
Comanche	86,865	30,749	22,975	260	5,201
Eastland	41,452	27,847	0	318	1,510
Erath	120,843	33,909	40,168	312	1,678
Hood	21,035	12,963	17	107	1,176
Palo Pinto	42,276	25,953	0	304	1,636
Shackelford	27,625	13,754	0	*	50
Somervell	6,440	4,042	6	31	291
Stephens	19,866	12,387	0	153	112
Throckmorton	25,179	14,518	0	*	0
Young	29,880	15,439	8	126	418
Subtotal, Cross Timbers	*459,270*	*191,561*	*63,174*	*1,788*	*15,078*
Blacklands (4)					
Bell	34,922	22,184	240	750	4,269
Bosque	38,635	23,328	0	108	1,243
Coryell	60,249	23,821	0	1,095	10,132
Falls	86,515	28,551	0	141	1,054

Hamilton	46,286	21,970	6,457	260	7,689
Hill	51,945	32,018	1,191	112	2,132
Johnson	65,951	25,485	4,234	908	2,098
Lampasas (7)	21,636	*	*	275	9,660
Limestone	73,462	43,918	470	169	466
McLennan	70,925	32,519	3,309	364	3,132
Milam	64,720	40,261	0	639	952
Williamson	69,587	27,389	78	154	5,107
Subtotal, Blacklands	*684,833*	*321,444*	*15,979*	*4,975*	*47,934*
Southeast and Central (5S and 8N)					
Brazos	47,492	27,288	0	505	836
Burleson	53,269	31,109	540	129	620
Grimes	57,061	40,315	485	1,223	193
Lee	57,048	35,851	0	854	389
Robertson	72,408	*	*	824	624
Washington	61,192	39,453	838	1,240	694
Subtotal, Southeast and Central	348,470	174,016	1,863	4,775	3,356
Region Total	***1,663,678***	***755,880***	***81,068***	***12,190***	***70,252***

Source: 2007 Census of Agriculture

Table F-3. Selected Crop Acreages—2012 Census of Agriculture

Agricultural District	Grains			Cotton	Soybeans	All Hay & Silage	Peanuts	Total in County
	Corn	Sorghum	Wheat					
Rolling Plains (2N and 2S)								
Fisher	*	462	20,462	66,897	0	8,451	0	96,272
Haskell	429	11,289	95,996	23,873	0	6,929	2,946	141,462
Jones	409	4,643	80,316	52,438	*	22,453	22	160,281
Kent	0	0	850	2,684	0	2,126	0	5,660
Knox	0	189	95,732	16,133	0	4,073	*	116,127
Nolan	*	717	6,046	48,940	0	4,336	0	60,039
Stonewall	0	0	7,756	5,005	0	2,334	0	15,095
Taylor	*	744	40,065	12,060	0	16,923	0	69,792
Subtotal, Rolling Plains	*838*	*18,044*	*347,223*	*228,030*	*0*	*67,625*	*2,968*	*664,728*
Cross Timbers (3)								
Callahan	*	307	17,354	*	0	20,571	0	38,232
Comanche	0	681	2,069	3,539	*	47,932	1,106	55,327
Eastland	0	*	1,773	5,033	0	42,834	324	49,964
Erath	37	1,207	2,168	992	0	70,709	*	75,113
Hood	*	89	803	0	0	24,675	0	25,567
Palo Pinto	0	*	1,051	0	0	25,799	0	26,850
Shackelford	0	0	10,639	*	0	6,764	0	17,403
Somervell	0	0	*	0	0	7,284	0	7,284
Stephens	0	0	966	0	0	6,216	0	7,182
Throckmorton	*	*	56,401	*	0	6,032	0	62,433
Young	0	*	31,766	898	0	13,839	*	46,503
Subtotal, Cross Timbers	*37*	*2,284*	*124,990*	*10,462*	*0*	*272,655*	*1,430*	*411,858*
Blacklands (4)								
Bell	50,730	21,938	27,133	7,318	*	40,089	*	147,208
Bosque	411	1,757	5,466	1,342	0	30,038	0	39,014
Coryell	2,045	4,378	18,180	380	0	28,987	0	53,970
Falls	47,829	8,139	23,021	6,741	1,793	39,011	0	126,534

Hamilton	*	3,067	4,566	0	*	32,521	0	40,154
Hill	38,325	25,920	51,499	17,347	0	54,823	0	187,914
Johnson	2,764	8,844	15,729	544	0	66,501	*	94,382
Lampasas (7)	0	0	461	0	0	17,502	*	17,963
Limestone	5,075	1,708	3,949	2,209	*	41,538	0	54,479
McLennan	57,195	13,096	50,981	6,680	534	65,415	30	193,931
Milam	26,443	13,411	14,156	6,285	0	49,162	0	109,457
Williamson	77,643	23,464	17,939	17,942	0	47,145	0	184,133
Subtotal, Blacklands	*308,460*	*125,722*	*233,080*	*66,788*	*2,327*	*512,732*	*30*	*1,249,139*
Southeast and Central (5S and 8N)								
Brazos	961	1,461	*	6,978	*	20,703	0	30,103
Burleson	14,194	2,842	*	12,625	710	30,885	0	61,256
Grimes	2,221	579	0	969	0	37,456	0	41,225
Lee	782	102	112	0	*	30,481	0	31,477
Robertson	10,440	5,153	2,822	14,042	*	46,060	0	78,517
Washington	71	170	1,300	1,070	148	57,205	0	59,964
Subtotal, Southeast and Central	*28,669*	*10,307*	*4,234*	*35,684*	*858*	*222,790*	*0*	*302,542*
Region Total	***338,004***	***156,357***	***709,527***	***340,964***	***3,185***	***1,075,802***	***4,428***	***2,628,267***

Source: 2012 Census of Agriculture
http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_2_County_Level/Texas/

Table F-4. Summary of Irrigation Surveys

Agricultural District	*Irrigated Acreage*		
	2002 US Agricultural Census	***2007US Agricultural Census***	***2012 US Agricultural Census***
Rolling Plains (2N and 2S)			
Fisher	3,284	4,569	2,553
Haskell	30,894	35,058	27,500
Jones	3,701	3,877	3,576
Kent	1,300	815	1,092
Knox	23,033	21,929	21,583
Nolan	2,987	5,158	3,307
Stonewall	1,454	2,399	741
Taylor	2,434	5,087	1,095
Subtotal, Rolling Plains	*69,087*	*78,892*	*61,447*
Cross Timbers (3)			
Callahan	1,331	633	704
Comanche	21,283	12,627	18,101
Eastland	14,594	5,141	8,930
Erath	14,505	12,101	12,337
Hood	3,433	4,336	2,821
Palo Pinto	1,902	601	712
Shackelford	550	*	*
Somervell	129	473	59
Stephens	195	226	*
Throckmorton	*	1,358	*
Young	114	*	229
Subtotal, Cross Timbers	*58,036*	*37,496*	*43,893*
Blacklands (4)			
Bell	2,690	2,746	3,084
Bosque	1,592	1,043	656
Coryell	1,050	767	420
Falls	1,424	4,361	5,069

Hamilton	1,064	763	619
Hill	3,864	1,189	920
Johnson	1,004	1,907	2,386
Lampasas (7)	445	437	166
Limestone	539	759	330
McLennan	3,194	2,937	3,509
Milam	2,631	2,784	2,486
Williamson	3,810	964	1,281
Subtotal, Blacklands	*23,307*	*20,657*	*20,926*
Southeast and Central (5S and 8N)			
Brazos	14,001	9,027	7,291
Burleson	17,415	14,480	19,598
Grimes	2,659	1,991	1,609
Lee	2,377	1,433	940
Robertson	19,179	21,541	19,679
Washington	1,041	1,438	1,438
Subtotal, Southeast and Central	*56,672*	*49,910*	*50,555*
Region Total	***207,102***	***186,955***	***176,821***

Source: 2012 Census of Agriculture

http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_2_County_Level/Texas/

* Withheld to avoid disclosing data for individual farms

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Appendix G
Surface Water Supplies

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TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
1015	6	1		BETTY JUNE PASCHAL	45	Irrigation	11/4/1969		
1030	6	1		ALVA C ALEXANDER	17	Irrigation	1/1/1964		
1051	6	1		DOUGLAS R STEVENS	4	Irrigation	1/1/1966		
1052	6	1		CAROLYN MAY BROWN	22	Irrigation	1/1/1963		
1053	6	1		JANET BURNS	110	Irrigation	1/1/1962		
1054	6	1		MARY L MARKS	26	Irrigation	1/1/1961		
1061	6	1		GARLAND H RICHARDS	549	Irrigation	9/2/1969		713
1103	6	1		BETTY SMITH WESSELS	50	Irrigation	6/20/1961		
1104	6	1		DAVID SMITH	25	Irrigation	4/1/1963		
1105	6	1		JAMES E SMITH JR	69	Irrigation	4/1/1963		
1106	6	1		LLOYD H GILES	5	Irrigation	1/1/1967		
1107	6	1		DALE K PRICE ET UX	30	Irrigation	5/1/1963		
1660	6	1		CITY OF CLYDE	1000	Municipal	2/2/1965	LAKE CLYDE	5748
1660	6	2		CITY OF CLYDE		Recreation	2/2/1965	LAKE CLYDE	
1661	6	1		L G CHRANE	26	Irrigation	5/15/1967		29
1662	6	1		L G CHRANE	35	Irrigation	5/15/1967		35
1663	6	1		LINDA JO PARKER	36	Irrigation	5/15/1967		36
1664	6	1		ROSALEA C BONNER ET AL	164	Irrigation	10/13/1969		200
1666	6	1		J H SMART	65	Irrigation	2/24/1969	LITTLE PECAN	76
1667	6	1		JOHN D MONTGOMERY	120	Irrigation	7/29/1974		124
1672	6	1		EDWIN M EDWARDS ET UX		Domestic/Livestock	1/26/1970		93
1673	6	1		ESTATE OF CLAUD JOY	22	Irrigation	1/1/1966		
1674	6	1		PAULINE COATS LAWSON	88	Irrigation	9/9/1968		88
1675	6	1		YVONNE PEEVEY & E GALLIVAN	2	Irrigation	1/1/1963		
1676	6	1		ESTATE OF DAN L CHILDRESS ET AL	45	Irrigation	3/16/1964		45
1677	6	1		CHAD CUNNINGHAM ET UX	90	Irrigation	5/13/1963		111
1678	6	1		WELDON J LAMB ET AL	134	Irrigation	12/9/1963		183
1679	6	1		DOROTHY W WHITTINGTON	40	Irrigation	3/24/1969		132
1680	6	1		COLLIS EAGER	40	Irrigation	3/24/1969		132
1681	6	1		MATACORP LTD A TEXAS LP	40	Irrigation	3/24/1969		132
1682	6	1		G V CUNNINGHAM	30	Irrigation	2/10/1971		185
1683	6	1		OLIVER D WORTHY	65	Irrigation	2/10/1971		185
1684	6	1		RAYMOND A DEBUSK	7	Irrigation	1/1/1966		
1689	6	1		LAKEWOOD RECREATIONAL CENTER	22	Irrigation	8/9/1965		150
1694	6	1		J W VINSON		Domestic/Livestock	2/21/1966		12
1695	6	1		R & N CATTLE CO	34.235	Irrigation	2/2/1970		
1695	6	2		BELIA I LOYOLA	145.765	Irrigation	2/2/1970		180
1696	6	1		GERALD N REID	49	Irrigation	3/1/1947		
1697	6	1		TOMMY JOE & HELEN R ABBOTT	5	Irrigation	11/22/1918		450
1697	6	2		TOMMY JOE & HELEN R ABBOTT	7	Irrigation	6/20/1961		
1697	6	3		TOMMY JOE & HELEN R ABBOTT	48	Industrial	6/20/1961		
1763	6	1		ERWIN T BAUCUM TRUSTEE	2.7	Irrigation	11/22/1918		
1763	6	2		ERWIN T BAUCUM TRUSTEE	3.5	Irrigation	6/20/1961		
1764	6	1		I H STEED TRUSTEE	26.9	Irrigation	11/22/1918		
1764	6	2		I H STEED TRUSTEE	34.5	Irrigation	6/20/1961		
2201	6	1		A B COPELAND JR	197	Irrigation	3/18/1968		
2202	6	1		JAMES F EVERETT		Domestic/Livestock	8/21/1972		252
2203	6	1		LARRY R JONES		Domestic/Livestock	8/21/1972		252

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2204	6	1		JERRY J RANKIN ET AL		Domestic/Livestock	8/21/1972		252
2205	6	1		JACK BERRY	150	Irrigation	12/21/1970		307
2206	6	1		RONNIE DUANE BRANCH ET UX	60	Irrigation	1/3/1972		185
2207	6	1		ELVIS RAY STONE SR ET AL	23	Irrigation	1/3/1972		185
2208	6	1		B R FANNING	40	Irrigation	7/6/1971		121
2208	6	2		JOHN MOCEK ET UX	20	Irrigation	7/6/1971		
2209	6	1		H B LANE	3	Irrigation	9/12/1977		7
2210	6	1		RAYMOND L JARRATT	92	Irrigation	4/1/1953		
2211	6	1		J T HICKS	85	Irrigation	1/24/1977		147
2212	6	1		BRUCE S TERRILL		Domestic/Livestock	8/21/1972		200
2213	6	1		WILBURN L GAINES		Domestic/Livestock	8/21/1972		200
2214	6	1		G K LEWALLEN		Domestic/Livestock	8/21/1972		200
2215	6	1		GREAT SOUTHERN RANCH INC	54	Irrigation	2/26/1968		160
2216	6	1		CRAIG W RAY	54	Irrigation	2/26/1968		160
2217	6	1		O H FRAZIER & M B CASEY		Domestic/Livestock	2/5/1973		240
2218	6	1		SAMUEL M FRAZIER ET AL		Domestic/Livestock	7/10/1978		240
2219	6	1		JAMES F JOHNSON ET UX	13	Irrigation	12/31/1964		
2220	6	1		HAROLD PACK	12	Irrigation	5/31/1963		
2221	6	1		KENNETH & BETTY YVON LESLEY	18	Irrigation	12/31/1962		
2221	6	2		KENNETH & BETTY YVON LESLEY	82	Irrigation	11/4/1999		
2222	6	1		HARM & ZWAANTINA TE VELDE TRST	110	Irrigation	10/31/1962		
2223	6	1		JEFF BUSBY		Irrigation	8/15/1977		
2224	6	1		VALERIE JANE HICKIE		Domestic/Livestock	3/11/1974		280
2225	6	1		TY MURRAY	34	Irrigation	6/30/1966		
2226	6	1		T T FAIR ET UX	61	Irrigation	7/31/1960		
2227	6	1		CHARLIE S EVERETT & WIFE	60	Irrigation	11/18/1965		
2228	6	1		ERMA GAYNELLE RICHARDSON	60	Irrigation	2/26/1968		272
2229	6	1		W T CRUMLEY ET UX	44	Irrigation	5/31/1953		
2230	6	1		TY MURRAY	76	Irrigation	10/24/1966		200
2231	6	1		ESTATE OF C C WINTERS	42	Irrigation	10/24/1966		200
2232	6	1		CHARLES A & ROBERT S ELLIOTT	16	Irrigation	3/25/1968		172
2233	6	1		J W OGLE ET AL	18	Irrigation	7/31/1957		
2234	6	1		BRUCE E TODD	125	Irrigation	12/31/1963		
2235	6	1		7 M RANCH TRUST	8	Irrigation	4/30/1963		
2236	6	1		BRUCE E TODD	24	Irrigation	12/31/1961		
2237	6	1		MAX L GORDON & ELOISE GORDON	90	Irrigation	6/4/1958		181
2238	6	1		JON DAVID MAYFIELD TRUST	106.02	Irrigation	7/31/1955		60
2238	6	2		LYNDA KIKER MAYFIELD	89.98	Irrigation	7/31/1955		
2239	6	1		A H LINNE	32	Irrigation	6/27/1955		164
2240	6	1		A DWAIN MAYFIELD ET AL	137	Irrigation	10/13/1970		137
2241	6	1		WAYNE PITTMAN ET AL	33	Irrigation	12/22/1969		148
2242	6	1		MRS W K RICHARDSON	40	Irrigation	12/22/1969		148
2243	6	1		BETTY E ROBBINS ET AL	90	Irrigation	9/8/1958		188
2244	6	1		DONALD MCLEAN	27	Irrigation	2/2/1965		54
2245	6	1		DORIS S HEIZER	20	Irrigation	2/2/1965		54
2246	6	1		DON MITCHELL ET AL	152	Irrigation	3/30/1966		199
2247	6	1		BAR-TO-LO CORPORATION	35	Irrigation	4/8/1968		179
2247	6	2		BAR-TO-LO CORPORATION	50	Irrigation	7/13/1995		27

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2248	6	1		ALWINA LUINE HEIZER HANCOCK	62	Irrigation	9/30/1957		179
2249	6	1		THOMAS H & DOLORES C BENSON	19	Irrigation	4/8/1968		179
2250	6	1		JAMES ALLEN SHADDEN	4	Irrigation	7/31/1967		
2251	6	1		TOMMY W TRIMBLE JR	28	Irrigation	7/18/1963		
2252	6	1		J B PUTTY TRUSTEE	30	Irrigation	12/31/1963		
2253	6	1		J P CATTLE COMPANY		Domestic/Livestock	7/30/1973		270
2254	6	1		W E PUTTY	65	Irrigation	12/31/1955		
2255	6	1		WAYNE V DUNCAN ET UX	47.65	Irrigation	12/31/1962		
2255	6	2		ROBERT L BOYKIN ET AL	26.83	Irrigation	12/31/1962		
2255	6	3		GARY W DUNCAN ET AL	84.52	Irrigation	12/31/1962		
2258	6	1		ROBERT E SPOLEC ET UX	32	Irrigation	12/31/1966		
2259	6	1		F MELVIN JOHNSON	112	Irrigation	12/31/1965		
2260	6	1		F MELVIN & HELENE JOHNSON	56	Irrigation	7/31/1950		
2261	6	1		CECIL PARKS	8	Irrigation	12/31/1967		
2262	6	1		VERNON CLARK BEAIRD	30	Irrigation	12/31/1967		
2263	6	1		WILLIAM VAN ZANDT SLOAN & WIFE	65	Irrigation	12/31/1959		
2264	6	1		WILLIAM VAN ZANDT SLOAN & WIFE	45	Irrigation	12/31/1955		
2265	6	1		DEREL FILLINGIM	268	Irrigation	12/31/1955		
2266	6	1		KARL T BUTZ JR	18	Irrigation	12/31/1966		
2267	6	1		RONNIE W PARTAIN	0.2572	Irrigation	12/31/1947		
2267	6	2		MARGO JOY PARTAIN BATTERSHELL	0.7428	Irrigation	12/31/1947		
2268	6	1		BARRY L POLK ET UX	11	Irrigation	12/31/1963		
2269	6	1		MICHAEL J LOTT ET UX	4	Irrigation	12/31/1966		
2270	6	1		J N BURNS	24	Irrigation	5/31/1967		26
2271	6	1		ALBERT N PIKE	15	Irrigation	12/31/1950		
2271	6	2		EUGENIA PIKE GOODMAN		Irrigation	12/31/1950		
2272	6	1		KKW2 LTD	42	Irrigation	12/31/1966		
2273	6	1		W F LONG	98	Irrigation	11/6/1979	UPPER HOUSE, HOUSE & SHIPMA	528
2276	6	1		LOUIS A BEECHERL JR	90	Irrigation	12/31/1954	10 RESERVOIRS	3399
2276	6	2		LOUIS A BEECHERL JR	81	Irrigation	10/20/1969	10 RESERVOIRS	
2276	6	3		LOUIS A BEECHERL JR	155	Irrigation	10/20/1969	10 RESERVOIRS	
2277	6	1		THOMAS G PETERS ET UX	10	Irrigation	12/31/1951		
2278	6	1		WILLIAM E GIPSON	114	Irrigation	12/31/1966		
2279	6	1		JOHN DAVID BELL ET UX	9	Irrigation	12/31/1967		
2280	6	1		JOHN DAVID BELL ET UX	69	Irrigation	7/31/1955		
2281	6	1		RAY J MILLER	7	Irrigation	4/30/1960		
2282	6	1		LESTER M ALBERTHAL JR	253	Irrigation	12/31/1958		
2283	6	1		MARGARET D WHITE	8	Irrigation	12/31/1964		
2284	6	1		L C HOWARD JR ET UX	25	Irrigation	12/31/1939		
2284	6	2		E R HOWARD ET UX		Irrigation	12/31/1939		
2285	6	1		LEONARD C RADDE	35	Irrigation	12/31/1949		
2287	6	1		BILLY G AND IRIS S HODGES	7	Irrigation	12/31/1965		13
2288	6	1		SHANNON LAIRD HODGES ET AL	3.5	Irrigation	12/31/1965		
2289	6	1		TEXAS PARKS & WILDLIFE DEPT		Recreation	9/22/1969		360
2290	6	1		J L JENSON	16.1	Irrigation	12/31/1956		
2290	6	2		LINNIE B CROSLEY ET VIR	28.9	Irrigation	12/31/1956		
2291	6	1		CITY OF CLIFTON	600	Municipal	3/14/1963	EXEMPT	100
2291	6	2		CITY OF CLIFTON	7	Irrigation	12/31/1963		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2292	6	1		W O GLOFF	261	Irrigation	12/31/1949		
2293	6	1		PATRICK H WILSON ET UX	7	Irrigation	12/31/1905		
2294	6	1		RD JL & ML LUNDBERG	80	Irrigation	6/30/1946		
2295	6	1		REGINALD & NALLIE LINDBERG	49	Irrigation	6/30/1953		
2298	6	1		CHARLES E STEVENS	104	Irrigation	4/5/1965		
2299	6	1		D I BULLION	22	Irrigation	12/31/1960		
2300	6	1		WILLIAM J HIX ET AL	100	Irrigation	12/31/1967		
2301	6	1		ABIGAIL HALBERT KAMM	70	Irrigation	5/31/1958		
2302	6	1		STEVEN K CAPERTON ET UX	122	Irrigation	12/31/1966		
2303	6	1		THEODORE A NUGENT ET UX	30	Irrigation	6/30/1955		
2304	6	1		HUGH WHITFIELD DAVIS	3.132	Irrigation	6/30/1955		
2304	6	2		THEODORE A NUGENT ET UX	43.868	Irrigation	6/30/1955		
2305	6	1		TALBERT FARMS LLC	40	Irrigation	7/31/1963		
2306	6	1		LYNDA GAIL BRITTON POWERS	5	Irrigation	12/31/1899		
2307	6	1		SAMUEL N & TESSIE B CARROLL	23	Irrigation	12/31/1963		
2308	6	1		IRA H WESTERFIELD	10	Irrigation	7/31/1966		
2309	6	1		JERRY AND JOY CLEMMONS	10	Irrigation	12/31/1967		
2310	6	1		JIM HERING	16	Irrigation	12/31/1946		18
2311	6	1		W T HIX		Domestic/Livestock	5/16/1977		740
2312	6	1		ROBERT HALL	162	Irrigation	12/31/1950		55
2313	6	1		IRA H WESTERFIELD	14	Irrigation	7/31/1985		5
2314	6	1		RAINBOW LAKE INC		Recreation	12/31/1930		105
2315	6	1		CITY OF WACO	39100	Municipal	1/10/1929	LAKE WACO	104100
2315	6	2		CITY OF WACO		Industrial	1/10/1929	LAKE WACO	
2315	6	3		CITY OF WACO	19100	Municipal	4/16/1958	LAKE WACO	
2315	6	4		CITY OF WACO		Industrial	4/16/1958	LAKE WACO	
2315	6	5		CITY OF WACO	900	Irrigation	2/21/1979	LAKE WACO	
2315	6	6		CITY OF WACO	16802	Industrial	1/10/1929	LAKE WACO	
2316	6	1		C L SLIGH FARMS	193	Irrigation	10/30/1925		
2317	6	1		CHARLOTTE B JOHNSON ET AL	248	Irrigation	11/20/1918		
2318	6	1		FRANK W SIPAN ET AL	35	Irrigation	12/31/1957		
2579	6	1		JAMES GENE PLENTL ET UX	7.1	Irrigation	12/31/1942		
2579	6	2		JAMES LEE RICE ET UX	15.9	Irrigation	12/31/1942		
2580	6	1		JAMES I HARDY ET UX	8.73	Irrigation	12/31/1930		
2580	6	2		LESLIE HARDY	33.98	Irrigation	12/31/1930		
2580	6	3		JANICE MILES	30.29	Irrigation	12/31/1930		
2581	6	1		BONNIE TERRY	24.95	Irrigation	12/31/1930		
2581	6	2		ROBERT E TERRY	47.51	Irrigation	12/31/1930		
2581	6	3		FLOYD G SELF JR ET UX	47.56	Irrigation	12/31/1930		
2581	6	4		DANNY LEE TERRY	23.98	Irrigation	12/31/1930		
2585	6	1		LAZY H INC	119	Irrigation	12/31/1959		
2586	6	1		W A SPIVEY	86	Irrigation	12/31/1955		
2587	6	1		LESTER GIBSON AND FOY GIBSON	83	Irrigation	2/28/1955		
2588	6	1		FOY GIBSON	15	Irrigation	12/31/1911		
2589	6	1		LESTER GIBSON	26	Irrigation	12/31/1911		
2590	6	1		LESTER GIBSON AND FOY GIBSON	66	Irrigation	12/31/1911		
2592	6	1		LESTER GIBSON AND FOY GIBSON	94	Irrigation	12/31/1911		
2594	6	1		MORRIS L ELLIS ET UX	122	Irrigation	12/31/1911		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2596	6	1		VICKIE R MARLEY MCDANIEL ET AL	6	Irrigation	12/31/1966		
2597	6	1		PHILLIP L MORRIS	4.9	Irrigation	3/31/1964		
2597	6	2		LOLA E MORRIS	2.1	Irrigation	3/31/1964		
2599	6	1		STANLEY MERLIN MCANELLY	96	Irrigation	12/31/1930		
2600	6	1		ELSIE MILLICAN ET AL	203	Irrigation	12/31/1954		
2605	6	1		VICKI LEE WILLIAMS BROWN	65	Irrigation	12/31/1965		
2813	6	1		RUDOLPH CARL DROSCHE JR	153	Irrigation	7/22/1965		
2814	6	1		GRACE OLENA ADAMS	0	Storage	12/31/1953		3
2814	6	2		LARRY WAYNE ADAMS	118.6	Irrigation	12/31/1953		
2814	6	3		LARRY WAYNE ADAMS	83	Irrigation	12/31/1953		
2814	6	4		CHARLIE THOMAS	170	Irrigation	12/31/1953		
2815	6	1		NANCY PAGE ALLEN ET VIR	69	Irrigation	12/31/1968		
2816	6	1		JOE B COOPER III ET UX	36	Irrigation	12/31/1968		
2818	6	1		P D GUNTER	18	Irrigation	8/31/1950		
2819	6	1		J B GUNTER	32	Irrigation	8/31/1950		
2820	6	1		WILLIAM R & CAROLINE MILLER	46	Irrigation	12/31/1966		
2821	6	1		JUANITA M ANDERS ET VIR	29	Irrigation	12/31/1965		
2822	6	1		MCMINN RANCHES LTD	106	Irrigation	12/31/1965		
2823	6	1		J E TATUM	22	Irrigation	12/31/1957		
2824	6	1		MAX DERDEN	39.42	Irrigation	12/31/1963		
2824	6	2		CHARLES S THOMAS ET UX	50.58	Irrigation	12/31/1963		
2825	6	1		MONTE CARMICHAEL ET AL	80	Irrigation	3/31/1967		
2826	6	1		BURK DENMAN	46	Irrigation	7/31/1966		
2827	6	1		J A DENMAN	6	Irrigation	12/31/1957		
2828	6	1		J A DENMAN	24	Irrigation	12/31/1957		
2829	6	1		MARTIN L GEYE ET AL	56	Irrigation	3/31/1960		
2830	6	1		O J BLAKEY	87	Irrigation	8/31/1954		
2830	6	2		DON GROMATZKY	30	Irrigation	8/31/1954		
2831	6	1		GARY CROW	57	Irrigation	12/31/1960		
2832	6	1		ANN WEAVER ADAIR	47	Irrigation	12/31/1966		
2833	6	1		JOANNA HOFER	24	Irrigation	7/31/1966		
2834	6	1		WILLIE EYVONNE MANNING RAY	43	Irrigation	12/31/1961		
2835	6	1		WILLIAM MILTON NORTH	293.62	Irrigation	5/31/1958		
2836	6	1		NELSON SHAVE	87	Irrigation	12/31/1967		
2837	6	1		WADE N CARAWAY	135.92	Irrigation	5/31/1958		
2837	6	2		WADE N CARAWAY	47.46	Irrigation	5/31/1967		
2838	6	1		ED A ROSS ET AL	37	Irrigation	12/31/1961		
2839	6	1		ED A ROSS ET AL	40	Irrigation	12/31/1961		
2840	6	1		ED A ROSS ET AL		Storage	11/6/1978		13
2841	6	1		WALTER E & JOYCE SWINDLE	26.7	Irrigation	8/31/1965		
2842	6	1		BILLY JACK & PATSY TYUS	4.3	Irrigation	8/31/1965		
2843	6	1		WINDY HILL RANCH LTD	29	Irrigation	1/30/1967		59
2844	6	1		WINDY HILL RANCH LTD	29	Irrigation	1/30/1967		
2845	6	1		WINDY HILL RANCH LTD	27.5	Irrigation	6/10/1968		55
2846	6	1		GUY G HALL	27.5	Irrigation	6/10/1968		
2846	6	2		GUY G HALL	10.5	Irrigation	6/14/1971		
2847	6	1		G G HALL	13	Irrigation	12/31/1966		2.6
2848	6	1		M D STEPHEN	31.5	Irrigation	4/5/1971		

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Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2849	6	1		J & J DAIRY	28.93	Irrigation	4/5/1971		
2849	6	2		BYRON JONES ET AL	2.57	Irrigation	4/5/1971		
2850	6	1		J A HULSEY	29	Irrigation	12/31/1966		
2851	6	1		J W BARBEE	72	Irrigation	12/31/1945		164
2851	6	2		J W BARBEE	87	Irrigation	8/1/1966		
2852	6	1		DEAN H BOTTLINGER ET UX	149	Irrigation	12/31/1964		
2853	6	1		GAYLON D & CLARA JONES	52	Irrigation	12/31/1957		
2854	6	1		ROY L NEWSOM	25.2	Irrigation	12/31/1963		
2854	6	2		VERNON N NEWSOM		Irrigation	12/31/1963		
2854	6	3		CLETA J (MILLER) STAPP	18.8	Irrigation	12/31/1963		
2855	6	1		CHARLES S THOMAS ET UX	91	Irrigation	12/31/1946		
2856	6	1		JACK D GRAHAM	1	Irrigation	12/31/1954		
2857	6	1		J L ROBERSON JR ET AL	47.723	Irrigation	12/31/1955		
2857	6	2		J RALPH LEE	105.277	Irrigation	12/31/1955		
2858	6	1		J RALPH LEE ET UX	18	Irrigation	12/31/1967		
2859	6	1		LARRY A DUNN ET UX	98	Irrigation	12/31/1965		
2860	6	1		EARL KAVANAUGH	15	Irrigation	12/31/1936		
2860	6	2		ORENA KAVANAUGH		Irrigation	12/31/1936		
2860	6	3		MAURINE K WATTS		Irrigation	12/31/1936		
2861	6	1		ACY L WATSON	1	Irrigation	12/31/1967		5
2862	6	1		MEL ANDERS ET UX	15	Irrigation	10/31/1955		
2863	6	1		RIVERSIDE RANCH LP	43	Irrigation	12/31/1961		
2864	6	1		K A SPARKS ET AL	185	Irrigation	12/31/1934		
2865	6	1		RIVERSIDE RANCH LP	169	Irrigation	12/31/1934		
2866	6	1		RIVERSIDE RANCH LP	82	Irrigation	12/31/1939		
2867	6	1		KIRBY JACK WARREN ET AL	4	Irrigation	12/31/1889		
2868	6	1		ARVORD M ABERNETHY	50	Irrigation	12/31/1908		
2869	6	1		BETTY JEAN HARRIS TOOLEY	105	Irrigation	12/31/1962		
2870	6	1		CITY OF HAMILTON	614	Municipal	1/22/1923		614
2871	6	1		TRUST FOR SETH THOMAS MOORE JR	72	Irrigation	12/31/1944		15
2872	6	1		TRUST FOR SETH THOMAS MOORE JR	2.5	Industrial	12/31/1944	3 RESERVOIRS	15
2873	6	1		R F MANNING	20	Irrigation	12/31/1964		
2874	6	1		PAULA MEADE KUNETKA ET AL	85	Irrigation	12/31/1954		75
2875	6	1		LEONARD T WARLICK ET UX	54	Irrigation	12/31/1958		75
2876	6	1		CHARLES CRAIG JR	15	Irrigation	12/31/1963		
2877	6	1		JOHNNY O HARPER ET UX	126.54	Irrigation	12/31/1954		
2877	6	2		JAMES CHESEBROUGH ET UX	14.03	Irrigation	12/31/1954		
2877	6	3		JOSEPH H MCGOWEN ET UX	9.43	Irrigation	12/31/1954		
2878	6	1		O C & WILLIE NADINE MARSHALL	37	Irrigation	12/31/1957		
2879	6	1		PAUL F MCCLINTON	46	Irrigation	12/31/1960		12
2879	6	2		PAUL F MCCLINTON	93	Irrigation	12/31/1960		
2880	6	1		TEXAS STARDANCE HOLDINGS LP	19	Irrigation	12/31/1945		
2881	6	1		MOODY E COURTNEY	124	Irrigation	12/31/1963		
2882	6	1		TEXAS STARDANCE HOLDINGS LP	196	Irrigation	12/31/1950		
2883	6	1		DAVID C COURTNEY	5	Irrigation	12/31/1960		
2884	6	1		TEXAS STARDANCE HOLDINGS LP	200	Irrigation	12/31/1954		
2885	6	1		MOODY E COURTNEY	71	Irrigation	12/31/1966		
2886	6	1		W J ALEXANDER	10	Irrigation	12/31/1966		

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Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2887	6	1		JOHN F TAYLOR ET AL	30	Irrigation	7/31/1964		
2888	6	1		GEORGE T REYNOLDS III ET UX	2	Irrigation	12/31/1929		
2890	6	1		DON THOMAS ROGERS	8	Irrigation	12/31/1963		
2891	6	1		W F MORELAND BY PASS TRUST	57	Irrigation	8/31/1964		
2892	6	1		W N & MARY JANE WHISENHUNT	32	Irrigation	12/31/1957		
2893	6	1		SEABORN L ASHBY	10	Irrigation	8/1/1918		
2894	6	1		SAN PABLO CORPORATION	2	Irrigation	12/31/1965		
2895	6	1		WILLIAM TRAVIS LAXSON	29	Irrigation	12/31/1959		
2896	6	1		MARGARET CALLAWAY	124	Irrigation	12/31/1965		
2897	6	1		R H MELTON	8	Irrigation	12/31/1967		
2898	6	1		DONALD J MACKIE ET UX	8	Irrigation	12/31/1925		
2898	6	2		GLENNIS G EGGER	15	Irrigation	12/31/1925		
2899	6	1		TEXAS DEPT OF CRIMINAL JUSTICE	70	Irrigation	1/25/1971		
2900	6	1		CHARLES C POWELL	14	Irrigation	12/31/1964		
2901	6	1		MORSE FAMILY PARTNERSHIP LTD	100	Irrigation	12/31/1965		
2902	6	1		QUENTIN G MCCORKLE ET UX	18	Irrigation	12/31/1957		
2903	6	1		GLENROOK FARMS	530	Irrigation	11/8/1913		
2904	6	1		STERLIN J BARNARD	40	Irrigation	12/31/1939		
2905	6	1		DAN G DAVIDSON ESTATE	14	Irrigation	12/31/1967		
2906	6	1		THELMA R CARTER	36	Irrigation	8/6/1925		
2907	6	1		LEO LUEDTKE ET UX	237	Irrigation	12/31/1958		
2907	6	2		DENNIS CHARLES LUEDTKE ET AL	150	Irrigation	12/31/1958		
2908	6	1		DAN G DAVIDSON	22	Irrigation	12/31/1967		
2909	6	1		RUDOLF DROSCHE	26	Irrigation	7/22/1965		
2910	6	1		CARL DROSCHE	77	Irrigation	12/31/1963		
2911	6	1		GLENN DIPPEL ET AL	74	Irrigation	4/30/1963		
2911	6	2		JOHN SHAUD ET UX		Irrigation	4/30/1963		
2914	6	1		PAT & MABEL RUTH GRIMES	18	Irrigation	12/31/1928		
2915	6	1		ROBERT L MOORE	38	Irrigation	3/31/1959		
2921	6	1		W J & ANITA FAYE HOPPER	28	Irrigation	3/31/1967		
2922	6	1		EDNA HOPPER	9	Irrigation	6/30/1966		
2923	6	1		HENRY MARWITZ ET AL	12.54	Irrigation	12/31/1913		
2923	6	2		BILLY H ROBERTS ET UX	32.46	Irrigation	12/31/1913		
2924	6	1		JERRY W & BONNIE JEAN HOPPER	59	Irrigation	5/31/1966		3
2926	6	1		WILLIAM JACKSON WISDOM	13	Irrigation	5/31/1938		
2927	6	1		ELVIN L GENTRY ET UX	9	Irrigation	6/30/1950		
2928	6	1		GARY L LUNDBERG ET UX	13	Irrigation	7/31/1950		
2929	6	1		REGINALD & NONA FA WIEDEBUSCH	4	Irrigation	3/31/1970		
2930	6	1		CYRUS B CATHEY ESTATE	31	Irrigation	9/30/1962		
2931	6	1		RONNAL S BEASLEY ET UX	52	Irrigation	12/31/1965		
2932	6	1		JAMES BILLINGSLEY	6	Irrigation	5/31/1962		
2933	6	1		MARSHALL JOE HANNA	46	Irrigation	8/31/1954		
2934	6	1		ROBERT M SCOTT ET AL	66	Irrigation	11/30/1965		
2935	6	1		ESTATE OF JEAN WOODWARD WHALEY	38	Storage	4/30/1963		190
2936	6	1		U S DEPT OF THE ARMY	10000	Municipal	8/24/1953	LAKE BELTON	12000
2936	6	2		U S DEPT OF THE ARMY	2000	Municipal	8/23/1954		
2937	6	1		BARGE RANCH LTD	59	Irrigation	7/31/1963		
2938	6	1		CITY OF TEMPLE	15804	Municipal	10/30/1915		500

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Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2938	6	2		CITY OF TEMPLE		Industrial	10/30/1915		
2938	6	3		CITY OF TEMPLE	20000	Municipal	1/11/1957	BELTON RESERVOIR	
2939	6	1		BRAZOS RIVER AUTHORITY	38800	Industrial	2/7/1949		
2940	6	1		EVELYN FRANCES BYLER ET AL	63	Irrigation	6/30/1965		
2941	6	1		SHALLOW FORD CONSTRUCTION CO	36	Irrigation	12/31/1966		
2942	6	1		PYLE BROTHERS INC	5.135	Irrigation	12/31/1915		
2942	6	2		VAUGHN T BAIRD	194.865	Irrigation	12/31/1915		
2943	6	1		CITY OF KILLEEN & KILLEEN WILLOWS INC	220	Irrigation	7/31/1978	3 RES	46
2943	6	2		CITY OF KILLEEN & KILLEEN WILLOWS INC		Recreation	7/31/1978		
2944	6	1		FRANKLIN LIMESTONE COMPANY	138	Mining	4/28/1975		28
2945	6	1		GLENN BAIRD	36	Irrigation	6/30/1966		
2946	6	1		J BARRY SIEBENLIST ET UX	24	Irrigation	5/20/1974		
2947	6	1		PHILLIP E POWELL ET UX	11	Irrigation	8/31/1952		
2948	6	1		CHESTER E DICKSON ET UX	278	Irrigation	7/31/1960		
2949	6	1		CHESTER E DICKSON ET UX	37	Irrigation	7/31/1960		
2950	6	1		DAVID R KRAUSS ET UX	25	Irrigation	8/31/1962		
2951	6	1		MICHAEL ANDREW MONTGOMERY ET AL	33.83	Irrigation	7/31/1963		
2952	6	1		CLOUD CONSTRUCTION CO INC	16	Irrigation	12/31/1962		37
2953	6	1		ROGER W HINDS ET UX	89.08	Irrigation	4/15/1984		
2953	6	2		CHARLES N VERHEYDEN ET UX	75.27	Irrigation	4/15/1984		
2953	6	3		DENNIS J LYNCH ET UX	69.65	Irrigation	4/15/1984		
2958	6	1		FOSSIL CREEK REALTY INC	2.63	Irrigation	9/27/1976		
2958	6	2		SAMUEL G TOUB	7.25	Irrigation	9/27/1976		
2958	6	3		W G BETTIS ET AL	0.12	Irrigation	9/27/1976		
2959	6	1		JOHN R & LYNN COATS	23	Irrigation	12/31/1950		
2960	6	1		NORTH MIDLAND DEVELOPMENT INC	46	Irrigation	12/31/1967		
2961	6	1		M K & RUTH NEAL PATTESON	54	Irrigation	5/31/1957		
2962	6	1		LEONARD J TROVERO SR	28	Irrigation	3/31/1925		
2963	6	1		FRANCES VIRGINIA NUCKLES ET AL	40.86	Irrigation	6/30/1957		45
2963	6	2		JOSEPH HENRY LANGFORD ET UX	7.14	Irrigation	6/30/1957		
2964	6	1		EARL BROOKS	1	Irrigation	5/31/1929		
2965	6	1		JIMMIE E BOULTINGHOUSE ET AL	34.25	Irrigation	6/30/1963		
2965	6	2		ROY LEE BOULTINGHOUSE	18.75	Irrigation	6/30/1963		
2966	6	1		MARVIN E & MARY BLANCHE WHITE	31	Irrigation	6/30/1963		4
2967	6	1		H Y JR & LOIS POLLARD PRICE	5	Irrigation	12/31/1963		40
2968	6	1		MARK J NASH JR		Recreation	1/7/1974		200
2969	6	1		BURRELL ROITCH	8	Irrigation	12/31/1946		
2970	6	1		FRED WILLIS ET UX	2.63	Irrigation	12/31/1946		
2970	6	2		CHARLES E BLANTON	51.17	Irrigation	12/31/1946		
2970	6	3		CITY OF LAMPASAS	6.2	Irrigation	12/31/1946		
2971	6	1		CITY OF LAMPASAS	3760	Municipal	6/23/1914		
2972	6	1		CITY OF LAMPASAS		Recreation	12/31/1956		20
2972	6	2		CITY OF LAMPASAS	228	Irrigation	12/31/1963		22
2973	6	1		MELVIN POTTS	6	Irrigation	3/31/1964		3
2974	6	1		E C O'NEAL JR	144	Irrigation	5/11/1913		
2975	6	1		RAY A & ELIZABETH K JONES	46	Irrigation	6/13/1914		
2976	6	1		RAY A JONES	48	Industrial	6/26/1914		
2977	6	1		CURTIS KIDD ET UX	42	Irrigation	5/7/1914		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
2978	6	1		GUNDERLAND PARK RANCH INC	54	Irrigation	12/31/1961		15
2979	6	1		JOHN T HIGGINS	95	Irrigation	12/31/1915		21
2980	6	1		JUDITH ANN LANSFORD ET AL	1	Irrigation	1/29/1926		
2981	6	1		DOROTHY N CAPPS	6.32	Irrigation	5/31/1963		
2981	6	2		JOE D BOYD	45.36	Irrigation	5/31/1963		
2981	6	3		WYLIE R CAPPS	6.32	Irrigation	5/31/1963		
2982	6	1		A J DEWAYNE KENDRICK	6	Irrigation	5/31/1963		
2983	6	1		LARRY L BROWN ET UX	7	Irrigation	5/31/1963		
2984	6	1		DOYLE & BARBARA J WALKER	18	Irrigation	5/31/1963		
2985	6	1		RAYMOND DWAYNE JONAS ET UX	18	Irrigation	5/31/1963		
2986	6	1		JAMES BUFORD BRIGGS	46.8	Irrigation	2/6/1919		
2987	6	1		ROBERT C HALLMARK ET AL	2	Irrigation	6/24/1914		
2988	6	1		JOE T & CAROLINE PARKS	3	Irrigation	6/23/1914		
2996	6	1		BRADLEY B WARE	100	Irrigation	4/1/1966		
2997	6	1		SUNTEX FULLER CORP	60.1	Irrigation	9/30/1963		
2997	6	2		CLIFFORD D FRIESEN ET UX	3.9	Irrigation	9/30/1963		
2998	6	1		CW DUNCAN JR TRUSTEE	157	Irrigation	12/31/1925		
2999	6	1		PAUL EUGENE BLUM	3	Irrigation	5/31/1947		
3000	6	1		JAMES L SHEPHERD	105	Irrigation	4/30/1957		
3001	6	1		EDD MELTON	12	Irrigation	12/31/1967		
3002	6	1		GENE & NELDA FAY RAY	150	Irrigation	12/31/1961		
3003	6	1		BENNIE M GIBBS	32	Irrigation	6/30/1967		
3004	6	1		ESTATE OF DR JAMIE W BARTON	50	Irrigation	8/2/1967		
3005	6	1		VAIL E & BETTY LOGSDON	5	Irrigation	6/30/1965		
3006	6	1		KARL B WAGNER ESTATE	48	Irrigation	4/30/1967		
3007	6	1		RIVER FARM LTD	48	Irrigation	12/31/1947		
3007	6	2		RIVER FARM LTD	192	Irrigation	9/20/1982		
3008	6	1		ELEANOR B TUTTLE	61	Irrigation	6/30/1950		
3009	6	1		JOSEPH LEWIS ET UX	81	Irrigation	12/31/1962		
3010	6	1		CLIFFORD D JONES	10	Irrigation	6/30/1955		
3011	6	1		LOYCE W RAY	16.55	Irrigation	12/31/1962		
3011	6	2		LAWANA ELLIS ET VIR	46.99	Irrigation	12/31/1962		
3011	6	3		MIKEL DUPES ET AL	0.46	Irrigation	12/31/1962		
3012	6	1		STAGECOACH INN PROPERTIES INC		Recreation	8/2/1976	1 ON-CHAN & 1 OFF-CHAN RES	9
3013	6	1		STAGECOACH MILL CREEK RESORTS INC	168	Irrigation	4/15/1965		10
3013	6	2		STAGECOACH MILL CREEK RESORTS INC	168	Irrigation	5/14/1999		
3014	6	1		EDWIN A BAILEY ESTATE	63	Irrigation	12/31/1883		6
3014	6	2		EDWIN A BAILEY ESTATE	2	Industrial	12/31/1883		
3015	6	1		PAUL T BOSTON	36	Irrigation	12/31/1963		
3355	1	1	3645	DAVID THOMAS BRIDGFORD	30	Irrigation	8/16/1976	2 RES	24
3364	6	1		MUSTANG CREEK RANCH	183	Irrigation	5/31/1963		70
3389	6	1		MOUNTAIN VALLEY COUNTRY CLUB		Recreation	6/11/1979		218
3410	6	1		UNITED FEDERAL SAVINGS & LOAN		Recreation	6/11/1979		24
3413	6	1		SAMUEL E CLONTS	182	Irrigation	8/31/1957		100
3413	6	2		MARION C PERDUE		Irrigation	8/31/1957		
3413	6	3		MABEL C WILSON		Irrigation	8/31/1957		
3414	6	1		CITY OF BENJAMIN	34	Municipal	1/2/1929		915
3440	6	1		LEAGUE RANCH	2000	Irrigation	6/13/1958	LAKE DAVIS	4477

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3440	6	2		LEAGUE RANCH	31	Irrigation	5/17/1965	LAKE CATHERINE	1750
3440	6	3		LEAGUE RANCH		Recreation	5/17/1965	LAKE CATHERINE	
3440	6	4		LEAGUE RANCH		Storage	5/15/1972	LAKE DAVIS/LAKE CATHERINE	1252
3441	6	1		CITY OF MUNDAY		Recreation	12/18/1939		150
3446	6	1		J J KEETER TRUST	4.5	Irrigation	9/2/1959		
3446	6	2		CLYDE STUTEVILLE	4.5	Irrigation	9/2/1959		
3447	6	1		R T WELLS JR	45	Irrigation	5/31/1964		
3448	6	1		GEORGE W WILKINSON	45	Irrigation	2/28/1966		2
3449	6	1		THROCKMORTON LAND & CATTLE CO		Domestic/Livestock	1/23/1950		705
3450	6	1		CITY OF THROCKMORTON	600	Municipal	11/20/1940		1675
3451	6	1		GEORGE W WILKINSON	26	Irrigation	8/31/1966		
3451	6	2		GEORGE W WILKINSON	27	Industrial	8/31/1966		
3452	6	1		CITY OF NEWCASTLE	250	Municipal	11/22/1966	WHISKEY CR RES & NEWCASTLE	801
3453	6	1		PITCOCK BROTHERS READY-MIX	100	Mining	12/19/1960		
3455	6	1		CHARLES D CROW & WANDA L CROW	76	Industrial	6/30/1967		
3455	6	2		CHARLES D CROW & WANDA L CROW	6	Industrial	6/20/1977		82
3455	6	3		CHARLES D CROW & WANDA L CROW		Irrigation	6/20/1977		
3456	6	1		RONALD D STEPHENS	59	Irrigation	12/31/1959		55
3457	6	1		LOUIS PITCOCK JR ET AL	60	Irrigation	12/8/1969		
3458	6	1		CITY OF GRAHAM	4000	Municipal	11/21/1927	LAKE EDDLEMAN	13386
3458	6	2		CITY OF GRAHAM	7000	Municipal	11/15/1954	LAKE GRAHAM	39000
3458	6	3		CITY OF GRAHAM	1000	Industrial	11/21/1927		
3458	6	4		CITY OF GRAHAM	7400	Industrial	11/15/1954		
3458	6	5		CITY OF GRAHAM	100	Irrigation	11/15/1954		
3458	6	6		CITY OF GRAHAM	500	Mining	11/15/1954		
3458	6	7		CITY OF GRAHAM		Storage	2/8/1982	SALT CREEK RESERVOIR	40
3459	6	1		ZACK BURKETT	12	Irrigation	8/31/1964		
3460	6	1		JANE H CRAVENS	76	Irrigation	8/20/1928		
3461	6	1		MRS T T CAMPBELL	27	Irrigation	3/31/1963		
3465	6	1		EASTLAND CO WSD	450	Municipal	10/28/1919	LAKE EASTLAND	1740
3465	6	2		EASTLAND CO WSD		Recreation	10/28/1919	LAKE EASTLAND	
3465	6	3		CITY OF EASTLAND	50	Industrial	10/28/1919		
3465	6	4		CITY OF EASTLAND	100	Irrigation	10/28/1919		
3466	6	1		CITY OF EASTLAND		Recreation	1/12/1976	RINGLING LAKE	144
3467	6	1		WAYNE HARGRAVE ET UX	12	Irrigation	12/31/1965		
3468	6	1		EBAA IRON INC	1000	Mining	12/15/1919	LAKE OLDEN	1607
3468	6	2		EASTLAND INDUSTRIAL FOUNDATION	607	Mining	12/15/1919		
3469	6	1		LARRY MORROW	21	Irrigation	8/21/1967		
3470	6	1		EASTLAND CO WSD	2437.5	Municipal	3/21/1952	LAKE LEON	28000
3470	6	2		EASTLAND CO WSD	1747.5	Municipal	3/25/1986	LAKE LEON	
3470	6	3		EASTLAND CO WSD	1265	Municipal	5/17/1931	LAKE LEON	
3470	6	4		EASTLAND CO WSD	350	Industrial	3/25/1986		
3470	6	5		EASTLAND CO WSD	500	Irrigation	3/25/1986		
3471	6	1		GLYNN A WILSON	50	Irrigation	10/11/1977	RESERVOIR 1	115
3471	6	2		GLYNN A WILSON	50	Irrigation	4/1/1991	RESERVOIR 2	125
3473	6	1		RONNIE LOVE	40	Irrigation	10/27/1969		
3474	6	1		JERRY P MEHAFFEY	30	Irrigation	4/28/1969		
3475	6	1		C M PIPPIN JR	8	Irrigation	5/26/1969		

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3476	6	1		GARTH PETTIT	51	Irrigation	4/30/1952		
3479	6	1		TEDDY J SNIDER ET UX	30	Irrigation	4/5/1966		35
3480	6	1		SAUL PULLMAN		Domestic/Livestock	10/31/1977		60
3481	6	1		WILL D BROWN ET UX	25	Irrigation	7/29/1968		40
3482	6	1		JOHNNY W & MARY C EAVES	13	Irrigation	7/31/1964		25
3483	6	1		MATTHEW STANLEY HOUSE	90	Irrigation	7/21/1969		244
3484	6	1		MURTICE C RODGERS	40	Irrigation	5/13/1970		
3485	6	1		H L PERRIN ET UX	148	Irrigation	1/2/1973		350
3485	6	2		H L PERRIN ET UX		Irrigation	4/6/1973		
3486	6	1		RONNIE N LOVE ET UX	150	Irrigation	10/20/1975	3 EXEMPT DAMS/RESERVOIRS	225
3486	6	2		RONNIE N LOVE ET UX	148	Irrigation	1/2/1973	1 RES	
3486	6	3		RONNIE N LOVE ET UX		Irrigation	4/6/1973		
3487	6	1		D B WARREN	40	Irrigation	2/19/1968		
3488	6	1		MAX BUSH ET UX	30	Irrigation	9/22/1969		
3489	6	1		THOMAS H BIRDSONG III	140	Irrigation	10/13/1969		323
3490	6	1		JOHN J HOLLAND	60	Irrigation	6/5/1967		60
3492	6	1		G D LINDLEY	52	Irrigation	8/21/1967		52
3493	6	1		EDDIE LINDLEY	35	Irrigation	4/27/1970		35
3494	6	1		MOODY B KOONCE	140	Irrigation	3/22/1971		
3495	6	1		MOODY B KOONCE	94	Irrigation	5/23/1967		
3496	6	1		NANNIE LEE THOMPSON	21	Irrigation	10/28/1968		
3497	6	1		HERRALD ABELS	50	Irrigation	7/28/1975		
3498	6	1		RAYMOND L GILDER	100	Irrigation	12/14/1970		189
3499	6	1		N L BOX	3	Irrigation	8/31/1951		25
3500	6	1		OBBCO RANCH CORPORATION	24	Irrigation	4/30/1966		
3501	6	1		HAROLD D HIGGINBOTTOM	65	Irrigation	3/22/1971		70
3502	6	1		DONALD K SETZLER	64	Irrigation	1/30/1978		
3503	6	1		HAROLD LEE MORRIS ET UX		Domestic/Livestock	2/28/1977		45
3504	6	1		ELMER RAY JOINER	20	Irrigation	4/8/1968		
3505	6	1		RONNIE P STEPHENS ET AL	36	Irrigation	7/22/1968		
3506	6	1		J V STEWART	3	Irrigation	3/31/1963		10
3511	6	1		A D MCCLELLAN	73	Irrigation	8/31/1966		
3512	6	1		JIMMY DALE JOHNSON	6	Irrigation	12/31/1963		
3514	6	1		GAINES OIL COMPANY	7	Irrigation	8/1/1966		
3515	6	1		ROBERT JESS HOFFMAN		Domestic/Livestock	5/1/1972		292
3516	6	1		RUBY JOHNSON		Domestic/Livestock	5/1/1972		292
3517	6	1		MERLE JO PARKS TRUSTEE	250	Irrigation	7/29/1968		266
3518	6	1		KELLER-HYDEN INC	110	Irrigation	8/8/1967		
3519	6	1		GARY D BEARD ET AL	25	Irrigation	6/15/1970		
3520	6	1		BEN HAMNER	40	Irrigation	9/11/1967		
3521	6	1		TRUETT & PATSY SPRUILL	40	Irrigation	5/5/1969		
3522	6	1		JAMES L HUGHES	7	Irrigation	7/31/1965		10
3523	6	1		ROBERT M & IMOGENE BURNS	20	Irrigation	6/9/1969		
3524	6	1		JULIA BETH COOK ET AL	25	Irrigation	12/8/1975		
3525	6	1		THOMAS H BIRDSONG III	10	Irrigation	10/13/1969		
3526	6	1		TROYAT UNDERWOOD	20	Irrigation	8/30/1976		20
3528	6	1		ROBERT EARL DENNIS	100	Irrigation	9/15/1969		121
3530	6	1		LOUIS SCHKADE ET AL	14	Irrigation	6/30/1967		

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3530	6	2		LOUIS SCHKADE ET AL	46	Irrigation	9/9/1969		
3531	6	1		JOHN R SCOTT ET UX	40	Irrigation	12/8/1975		
3532	6	1		JIMMY L BINGHAM ET AL	29	Irrigation	3/29/1971		29
3533	6	1		BOBBY L SKAGGS & GENE E SKAGGS	25	Irrigation	3/24/1969		
3534	6	1		JUNE M ROUNTREE TRUSTEE	24	Irrigation	7/31/1967		8
3535	6	1		JACK & THELMA LOU RILEY	8	Irrigation	10/26/1971		
3536	6	1		LYNDELL F COAN	31	Irrigation	4/26/1971		
3537	6	1		RODNEY C STEPHENS		Storage	12/17/1973		9
3538	6	1		WILLIAM T MORRIS ET UX	30	Irrigation	11/19/1973		
3539	6	1		ED GLOVER JR	75	Irrigation	3/17/1969		
3540	6	1		SPRUILL BROS DRILLING CO	1	Irrigation	4/25/1967		
3540	6	2		JAMES L FARLEY ET UX	89	Irrigation	4/25/1967	NORTH RESERVOIR & SOUTH RES	153
3540	6	3		JAMES L FARLEY ET UX	23	Irrigation	7/31/1967		
3541	6	1		SAM D & MARTHA L UPSHAW	45	Irrigation	5/6/1968		
3542	6	1		NABORS LAKE DEVELOPMENT CORP		Recreation	4/28/1976	NABORS LAKE	450
3543	6	1		PETER G FAGAN ET UX	28	Irrigation	5/4/1970		29
3544	6	1		JIM LAMPMAN ET AL	17	Irrigation	12/31/1964		
3546	6	1		E A WALKER	7.5	Irrigation	7/31/1965		11
3546	6	2		E A WALKER	1.5	Irrigation	4/26/1971		
3547	6	1		ELISABETH LEE SANDERS	70	Irrigation	4/1/1968		
3548	6	1		SEBORN E GOLDEN	166	Irrigation	5/17/1965		
3549	6	1		T A NOWLIN	42	Irrigation	5/20/1968		
3550	6	1		THOMAS A LEE JR ET UX	27.6	Irrigation	9/11/1967		
3551	6	1		BOBBY W STRAUB	30	Irrigation	4/5/1985		
3552	6	1		J V SKAGGS	80	Irrigation	6/7/1971		
3553	6	1		LEE ROY COTTON	53	Irrigation	6/13/1966		
3554	6	1		E J TERRY	25	Irrigation	6/30/1969		
3555	6	1		MARK C GRIFFIN ET UX	100	Irrigation	5/22/1978		
3556	6	1		GAYLE MCGINNIS	7.5	Irrigation	4/15/1968		
3557	6	1		LAKE PROCTOR IRRIGATION AUTHORITY	97.5	Irrigation	4/15/1968		
3558	6	1		STEVEN MARK BIGGS ET AL	12	Irrigation	7/31/1961		
3560	6	1		CHARLES BOB & DEALVA SNELL		Domestic/Livestock	12/8/1975		
3561	6	1		ROBERT S BUTLER		Domestic/Livestock	6/24/1974		267
3565	6	1		ROBERT S BUTLER		Domestic/Livestock	1/28/1974		236
3567	6	1		BYRON R GIBSON		Recreation	9/3/1974		81
3568	6	1		ALICE MAE JONES	50	Irrigation	9/17/1970		25
3569	6	1		MARGARET JANES	10	Irrigation	2/7/1972		
3572	6	1		A T GILCHREST	140	Irrigation	3/18/1968		
3573	6	1		G H BINGHAM DBA 4B FARMS	42.9	Irrigation	5/8/1972		
3573	6	2		MICHAEL BINGHAM	17.1	Irrigation	5/8/1972		
3575	6	1		BOBBY N HUDDLESTON	16	Irrigation	4/30/1955		
3575	6	2		BOBBY N HUDDLESTON	130	Irrigation	9/25/1972		130
3578	6	1		ORO PECANLANDS INC ET AL	700	Irrigation	11/11/1974		829
3579	6	1		T A NOWLIN	32	Irrigation	7/31/1969		50
3580	6	1		G E BINGHAM ET AL	70	Irrigation	4/24/1972		
3581	6	1		ELDON WADE BUTLER	65	Irrigation	1/5/1970		
3584	6	1		DINA BAXTER NEAL	30	Irrigation	12/31/1959		4
3585	6	1		WAYNE D GILLIAM	17	Irrigation	7/30/1973		17.39

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3585	6	2		WAYNE D GILLIAM	23	Irrigation	9/2/1980		
3586	6	1		GLENDA G HENRY	154	Irrigation	10/13/1970		960
3587	6	1		GEORGE E BINGHAM ET UX	95.61	Irrigation	10/13/1970		
3587	6	2		GEORGE E BINGHAM ET AL	99.32	Irrigation	10/13/1970		
3587	6	3		GEORGE E BINGHAM ET AL		Recreation	10/13/1970		
3588	6	1		BILLY J GRESSETT ET AL	29.24	Irrigation	10/13/1970		
3588	6	2		BILLY J GRESSETT ET AL		Recreation	10/13/1970		
3589	6	1		LOUIS G & BETTY HARELIK	185.19	Irrigation	10/13/1970		
3589	6	2		LOUIS G & BETTY HARELIK		Recreation	10/13/1970		
3590	6	1		CLINTON D GEYE	321.64	Irrigation	10/13/1970		
3590	6	2		CLINTON D GEYE		Recreation	10/13/1970		
3592	6	1		LEON Y NICHOLS	109	Irrigation	4/23/1967		
3593	6	1		VERA MULL	8	Irrigation	6/30/1965		25
3593	6	2		VERA MULL	17	Irrigation	6/30/1969		
3594	6	1		WOLFE PECANLANDS INC	16	Irrigation	2/22/1971		
3595	6	1		REX MCGINNIS	10	Irrigation	4/15/1956		4
3596	6	1		R C PINKARD	280	Irrigation	8/25/1969		400
3596	6	2		GENE E CAGLE ET UX		Irrigation	8/25/1969		
3596	6	3		BILLIE STEWART KINSEY		Irrigation	8/25/1969		
3597	6	1		J F REED		Recreation	2/7/1972		657
3598	6	1		JOE MCENTIRE & JOHN MCENTIRE		Recreation	2/7/1972		
3599	6	1		JOE J MCENTIRE		Recreation	2/7/1972		
3600	6	1		GARY HALL ET AL		Recreation	2/7/1972		
3601	6	1		H REESE WARD & DONALD L WARD		Recreation	2/7/1972		657
3601	6	2		H REESE WARD & DONALD L WARD		Domestic/Livestock	2/7/1972		
3602	6	1		DENNIS L & LAVORICE M SHELTON		Domestic/Livestock	5/28/1974		
3603	6	1		PAUL L RAINS		Domestic/Livestock	5/19/1975		
3604	6	1		LARRY C STEELE ET UX		Domestic/Livestock	8/10/1972		15
3604	6	2		LARRY C STEELE ET UX		Domestic/Livestock	5/19/1975		35
3605	6	1		GARY G & MARY LOU HALL		Domestic/Livestock	2/28/1972		41
3606	6	1		GARY G HALL ET UX	3	Irrigation	7/31/1963		
3607	6	1		T C MAZUREK JR		Domestic/Livestock	2/17/1975		
3608	6	1		NORMAN MOORE ET UX	21	Irrigation	10/26/1971		
3608	6	2		AVERY MOORE		Irrigation	10/26/1971		
3609	6	1		JOHN M HATHCOCK	50	Irrigation	10/18/1971		
3610	6	1		JOHN C TAYLOR ET UX	143	Irrigation	7/19/1971		193
3611	6	1		HUGH MONSELLE O'BRIEN	38	Irrigation	12/31/1969		
3612	6	1		FRED S DAVIS	93	Irrigation	5/31/1959		40
3613	6	1		HUGH MONSELLE O'BRIEN	95	Irrigation	5/17/1971		
3614	6	1		JAMES DONALD CHESTER	10	Irrigation	11/18/1965		10
3615	6	1		A E VINEYARD	48	Irrigation	6/16/1969		
3616	6	1		B J VINEYARD	12	Irrigation	6/16/1969		
3617	6	1		WALTER MAZUREK	3	Irrigation	4/29/1968		
3618	6	1		OBBCO RANCH CORPORATION	85	Irrigation	7/31/1967		
3618	6	2		OBBCO RANCH CORPORATION	9	Irrigation	5/6/1968		
3619	6	1		JFB FARMS A PARTNERSHIP	20	Irrigation	2/22/1971		30
3620	6	1		E J ALDERMAN	25	Irrigation	5/31/1967		
3620	6	2		E J ALDERMAN	72	Irrigation	9/11/1967		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
3622	6	1		CURTIS LESLEY & ROYCE LESLEY	50	Irrigation	6/28/1976		50
3623	6	1		TIMOTHY LEN MATTHEWS	26	Irrigation	4/23/1966		10
3624	6	1		PAULINE HALL	14	Irrigation	4/23/1966		
3626	6	1		WOLFE PECANLANDS INC	160	Irrigation	7/15/1963		
3627	6	1		DINAH KAY DENSMAN	13	Irrigation	1/15/1967		
3629	6	1		CAROLUS VOLLEMAN ET UX	48	Irrigation	9/8/1975		
3630	6	1		J H VAN ZANT	30	Irrigation	12/31/1929		
3631	6	1		J Z STARK	50	Irrigation	7/31/1966		
3632	6	1		RANDLE JOE EVANS	3	Irrigation	6/10/1967		
3633	6	1		DONALD DEE SALTER ET AL	61	Irrigation	5/31/1967		
3634	6	1		BEATRICE LOGGINS	31	Irrigation	7/31/1964		
3635	6	1		JOE RILEY	84	Irrigation	6/30/1952		
3636	1	1	3931	GEORGE CHASE	109	Irrigation	11/6/1978	HOG CREEK WATERSHED PROJEC	419
3636	1	2	3931	EVELYN WILIE MOODY	110	Irrigation	11/6/1978	HOG CREEK WATERSHED PROJECT	
3636	6	1		GAYLAND STEPHENS ET UX	40	Irrigation	7/31/1952		
3637	6	1		GORES INCORPORATED	450	Irrigation	12/31/1946		84
3638	6	1		J B GUNTER & P D GUNTER	40	Irrigation	12/31/1958		25
3639	6	1		GAIL W & MARY L YORK	35	Irrigation	7/31/1951		4.5
3640	6	1		SCOTT G SALTER	23	Irrigation	12/31/1963		4
3641	6	1		BERRY RAY BINGHAM		Domestic/Livestock	10/29/1973		
3642	6	1		CARL DWAIN HALL	9	Irrigation	7/31/1960		
3643	6	1		JOE PAUL MCCULLOUGH ET UX	69	Irrigation	4/30/1953		36
3644	6	1		BILL BLUE	1.35	Irrigation	7/5/1976		
3644	6	2		RODNEY STEPHENS	13.65	Irrigation	7/5/1976		15
3645	6	1		CLAYTON W MERCER	18	Irrigation	7/12/1971		18
3646	6	1		THOMAS E LUKER	7	Irrigation	6/30/1967		
3647	6	1		DONALD W MOORE	41	Irrigation	9/30/1954		126
3648	6	1		EVA F MOORE	49	Irrigation	8/31/1952		6
3649	6	1		CULLEN STEPHENS	130	Irrigation	6/30/1950		
3650	6	1		GUY E MOORE	34	Irrigation	7/31/1964		7.5
3651	6	1		JOHN R MOORE ET UX	107	Irrigation	7/31/1961		
3651	6	2		JOE D MOORE	15	Irrigation	7/31/1961		
3652	6	1		O A DICKEY	8	Irrigation	7/31/1964		
3653	6	1		LARRY WAYNE ADAMS	851.4	Irrigation	8/31/1963		
3654	6	1		CAROLYN RINEHART HAYES	32.67	Irrigation	7/31/1963		
3654	6	2		CAROLYN RINEHART HAYES ET VIR	32.66	Irrigation	7/31/1963		
3654	6	3		KENNETH RAY RINEHART	32.67	Irrigation	7/31/1963		
3655	6	1		ARBIE N BOYD ET UX	22	Irrigation	12/31/1957		
3655	6	2		GARY K BOYD		Irrigation	12/31/1957		
3656	6	1		MARTIN W & JUANITA SEIDER	36	Irrigation	7/31/1966		
3657	6	1		LEO C HAGGARD ET UX	56	Irrigation	7/31/1965		
3658	6	1		H L WILLINGHAM ESTATE	7	Irrigation	3/31/1963		
3659	6	1		ERW INC	200	Municipal	7/20/1925	LAKE EANES	1000
3659	6	2		ERW INC	200	Irrigation	3/29/1976	LAKE EANES	
3660	6	1		BELVE BEAN	58	Irrigation	7/31/1952		
3660	6	2		BELVE BEAN	11	Industrial	7/31/1961		
3661	6	1		C H MCCALL ET UX	187	Irrigation	6/30/1964		
3662	6	1		JIMMY E GORE	2.77	Irrigation	12/18/1947		

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3662	6	2		DORIS S GORE	166.45	Irrigation	4/22/1975		4800
3662	6	3		JIMMY E GORE ET AL	291.46	Irrigation	4/22/1975		4800
3662	6	4		KENNETH D HARVICK ET AL	139.32	Irrigation	4/22/1975		
3663	6	1		R E BASHAM JR	67	Irrigation	4/30/1949		36
3701	6	1		COUNTY OF KENT		Storage	10/1/1925		296
3702	6	1		DON H MURPHY		Recreation	11/24/1969		850
3716	6	1		CAROL SUE REED	134	Irrigation	12/31/1958		2
3717	6	1		BALDRIDGE FAMILY LAND	420	Irrigation	8/31/1951		
3718	6	1		OCCIDENTAL PERMIAN LTD	3525	Mining	3/5/1958		
3718	6	2		OCCIDENTAL PERMIAN LTD	2375	Mining	7/22/1969		
3720	6	1		BILLIE JOE MCCOMBS	44	Irrigation	10/5/1963		185
3721	1	1	3969	MCTAN CORPORATION		Irrigation	3/12/1979		128
3721	1	2	3969	MCTAN CORPORATION		Recreation	3/12/1979		
3721	6	1		BRUCE & PATSY K COX	100	Irrigation	2/28/1965		176
3721	6	2		BRUCE & PATSY K COX	26	Industrial	3/31/1966		
3724	6	1		FRANCES DAVIS	1016	Irrigation	8/31/1955		
3725	6	1		OLIN E TEAGUE VETERANS CENTER		Recreation	1/24/1977		96
3726	6	1		MOLLIE H BROOKS ET AL	5	Irrigation	7/31/1960		12
3726	6	2		MOLLIE H BROOKS ET AL	5	Irrigation	11/6/1969		
3727	6	1		B R LAUTERBORN	72	Irrigation	10/11/1977		201
3727	6	2		DOYR CORNELISON ET UX		Irrigation	10/11/1977		
3727	6	3		ROBERT L OGDEN ET UX		Irrigation	10/11/1977		
3728	6	1		PATRICK J ATKINSON JR ET UX		Recreation	6/5/1978		246
3728	6	2		LARRY J HOWELL ET UX		Recreation	6/5/1978		
3728	6	3		JERRY D GRIFFITH ET UX		Recreation	6/5/1978		
3729	6	1		JOE GLASER	100	Industrial	9/27/1976		387
3730	6	1		JOE P (JR) & HENRIETTA CALLAN	21	Irrigation	3/1/1967		0.187
3731	6	1		REUBEN FLOYD CLARK	29	Irrigation	12/31/1962		
3732	6	1		SAN GABRIEL RIVER RANCH INC		Recreation	5/17/1976		26
3733	6	1		GEORGETOWN BUILDERS INC		Recreation	9/17/1970		40
3733	6	2		GEORGETOWN BUILDERS INC		Recreation	11/22/1976		4
3734	6	1		GEORGETOWN COUNTRY CLUB	45	Irrigation	12/31/1941		10
3736	6	1		HENRY GRADY RYLANDER	1	Irrigation	6/30/1961		
3737	6	1		ALAMO CONCRETE PRODUCTS LTD	300	Mining	5/4/1970		
3738	6	1		CITY OF GEORGETOWN		Recreation	12/6/1976		11
3739	6	1		GENE H BINGHAM ET AL	240	Mining	3/1/1964		
3740	6	1		WENDELL F GIBSON	20	Irrigation	5/1/1963		
3741	6	1		LINDA ANN SMITH	10.9	Irrigation	5/1/1964		
3741	6	2		THEODORE & MARY KALLUS REV LIVING TRUST	17.1	Irrigation	5/1/1964		
3742	6	1		MAXINE HARRIS	16.85	Irrigation	5/1/1964		
3742	6	2		R SCOTT POPE ET UX	7.15	Irrigation	5/1/1964		
3743	6	1		J L ENTERPRISES LLP	32	Irrigation	3/31/1954		
3744	6	1		T D VAUGHAN	110.3	Irrigation	9/30/1952		
3745	6	1		BEN W KURIO (BWK PARTNERSHIP)	33	Irrigation	12/31/1963		
3746	6	1		CHARLENE M SEFCIK	12	Irrigation	12/31/1957		
3747	6	1		JIMMY F BYERS	284	Irrigation	7/31/1966		
3748	6	1		A C STEARNS ESTATE	203	Industrial	12/31/1945		
3749	6	1		W T PEARSON JR	110	Irrigation	4/30/1967		

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3750	6	1		T R COFFIELD	125	Irrigation	6/30/1943		
3751	6	1		BERTHA S JOHNSON	30	Irrigation	8/18/1922		
3752	6	1		CITY OF TAYLOR		Recreation	5/17/1976		26
3753	6	1		THE ESTATE OF JOHN V STILES	1	Irrigation	7/1/1963		0.5
3754	6	1		CITY OF THORNDALE	60	Municipal	6/20/1961		
3755	6	1		W A & JACK WINTERROWD	50	Irrigation	4/30/1963		263
3756	6	1		LESTER W STILES	3	Irrigation	7/1/1953		
3757	6	1		CITY OF THORNDALE	100	Municipal	9/15/1966		469
3757	6	2		CITY OF THORNDALE	150	Municipal	9/20/1982		
3758	6	1		ALCOA INC	18000	Industrial	12/12/1951	LAKE ALCOA	
3759	6	1		JAMES FERGUSON ET UX	300	Irrigation	8/29/1977		50
3760	6	1		CLIFFORD L GUSTAFSON ET UX	41.5	Irrigation	7/17/1925		
3761	1	1	4047	ROBERT W NORRIS	400	Irrigation	5/27/1980		
3761	6	1		CITY OF CAMERON	2792	Municipal	3/20/1914		10
3762	1	1	4048	ELLIS G & JEAN M MARSHALL	100	Irrigation	5/27/1980		
3762	6	1		B & B MINNOW FARM		Industrial	2/12/1973		
3763	1	1	4049	PAUL J MEYER ET AL	360.655	Irrigation	5/27/1980		20
3763	6	1		SHERWOOD PROPERTIES INC	40	Irrigation	7/31/1952		
3764	6	1		HAROLD B & OPAL B FISHER	45	Irrigation	7/1/1952		
3765	6	1		BRL RANCHES LP	148	Irrigation	7/28/1956		
3766	6	1		FORTY-FOUR FARMS LP	90	Irrigation	12/31/1952		2
3767	6	1		FIVE WELLS RANCH COMPANY	120	Irrigation	7/19/1971		358
3768	6	1		MICHAEL LLOYD ET UX	112	Industrial	2/28/1977		
3768	6	2		MICHAEL LLOYD ET UX	12.7	Irrigation	5/31/1965		
3768	6	3		MICHAEL LLOYD ET UX		Irrigation	2/28/1977		309
3769	6	1		LARRY WAYNE MCCLAREN	150	Irrigation	8/31/1956		
3770	6	1		COLVIN COBB ET AL	149	Irrigation	6/30/1959		
3771	6	1		ELLIOTT W ATKINSON ET AL	15	Irrigation	7/31/1962		
3772	6	1		V T WHITE	8	Irrigation	7/31/1966		
3773	6	1		ARLEDGE & SHANAHAN LP	1300	Irrigation	8/31/1956		11.56
3774	6	1		COLVIN COBB ET AL	30	Irrigation	6/30/1959		
3775	6	1		LLOYD E LEIFESTE ET UX	1200.25	Irrigation	4/10/1960		
3775	6	2		LLOYD E LEIFESTE ET UX	500	Irrigation	9/29/2000		
3775	6	3		JESSE ROBERTSON	66.75	Irrigation	4/10/1960		
3808	1	1	4087	DON FRAZIER CLARK ET AL	808.84	Irrigation	12/3/1980		1271
3808	1	2	4087	DON FRAZIER CLARK ET AL	251.16	Irrigation	12/3/1980		
3809	1	1	4079	L P REED RANCH LTD	230	Irrigation	11/3/1980	6 EXEMPT RESERVOIRS	
3826	1	1	4122	UPPER LEON RIVER MWD		Irrigation	5/11/1981	RELEASED FROM LAKE PROCTOR	45
3844	1	1	4088	CUSTER D SWIFT ET AL	107.22	Irrigation	11/10/1980		421
3844	1	2	4088	WINNIE D ANDERSON	246	Irrigation	11/10/1980		
3844	1	3	4088	DONALD FEIST ET AL	48.78	Irrigation	11/10/1980		
3851	1	1	4180	WALNUT CREEK FARMS OF GRANBURY	2.99	Irrigation	12/12/1981		
3851	1	2	4180	MURRAY RANDLE	2.4	Irrigation	12/12/1981		
3851	1	3	4180	SAM C COWAN JR	1.56	Irrigation	12/12/1981		
3851	1	4	4180	GERALD E KIMMEL ET UX	10.05	Irrigation	12/12/1981		17
3880	1	1	4197	LYNDELL F COAN ET AL		Domestic/Livestock	3/22/1982		60
3902	1	1	4210	ESTATE OF PAUL L RAINS	30	Irrigation	5/3/1982		
3902	1	2	4210	GARY G HALL ET UX	20	Irrigation	5/3/1982		

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3902	1	3	4210	DENNIS L SHELTON	10	Irrigation	5/3/1982		
3913	1	1	4212	CAPITOL AGGREGATES LTD	118	Mining	5/3/1982		70
3913	1	2	4212	CAPITOL AGGREGATES LTD		Industrial	5/3/1982		
3934	1	1	4263	TROY MORRIS ET UX	25	Irrigation	11/8/1982		25
3936	1	1	4235	HOLY LAND & CATTLE	2600	Irrigation	8/30/1982		
3939	1	1	4257	KENNETH & BETTY YVON LESLEY	245	Irrigation	11/1/1982		725
3941	6	1		SELECTED LANDS CORP	300	Irrigation	7/1/1974		160
3941	6	2		SELECTED LANDS CORP		Recreation	7/1/1974		
3953	6	1		LAKE WINONA PROP OWNERS ASSN		Recreation	10/27/1975		
3956	6	1		LAKE HOLLYHILL OWNERS ASSN		Recreation	11/10/1975		
3971	1	1	4314	TONKAWA SPRINGS HOMEOWNERS ASSN INC		Recreation	1/31/1983		7.5
3971	1	2	4314	TONKAWA SPRINGS HOMEOWNERS ASSN INC		Domestic/Livestock	1/31/1983		
3999	6	1		MARVIN H MCMURREY JR ET AL	25	Irrigation	8/16/1956		
4000	1	1	4246	THOMAS E LOVELACE ET AL	20	Irrigation	9/20/1982		
4000	6	1		CURTIS MITCHELL	31	Irrigation	4/30/1963		
4001	6	1		JENNIE M & M F EWTON	40	Irrigation	5/31/1962		
4002	1	1	4241	JOSEPH B MORROW ET UX	32.9	Irrigation	9/20/1982		
4002	1	2	4241	TIPTON MALONE MURRELL	7.1	Irrigation	9/20/1982		
4003	1	1	4242	MIKE H BERRY ET UX	29.7	Irrigation	9/20/1982		
4003	6	1		MRS G C MOORE	41	Irrigation	9/30/1974		
4004	6	1		CITY OF GRAFORD	50	Municipal	2/1/1957		50
4004	6	2		CITY OF GRAFORD	5	Municipal	3/18/1932		
4005	6	1		W J RHODES ET AL	781	Irrigation	4/30/1932		250
4006	6	1		SAN ROC LLC	63	Irrigation	12/31/1958		
4007	6	1		MARY E RIPPETOE	50	Irrigation	6/7/1976		
4008	6	1		LAWRENCE M CAREY ET AL	46.94	Irrigation	7/1/1956		
4008	6	2		CHRISTMANN CORPORATION	63.052	Irrigation	7/1/1956		
4009	6	1		ERNEST E AMMONS	4.32	Irrigation	12/31/1962		
4009	6	2		CHRISTMANN CORPORATION	19.68	Irrigation	12/31/1962		
4010	6	1		CHARLES W & JEAN WELCH	33	Irrigation	12/31/1962		
4011	1	1	4282	HARVEST GUARD INC	1398.29	Irrigation	12/20/1982		
4011	1	2	4282	GERTRUDIS C ESTRADA ET UX (MARIA PAULA)	4.71	Irrigation	12/20/1982		
4011	6	1		JACKIE LEE CHASTAIN ET AL	8	Irrigation	7/31/1966		
4012	1	1	4280	BILLY G CURRY ET AL	440	Irrigation	12/13/1982		
4012	6	1		EARL W & ANITA GARDNER	236	Irrigation	9/30/1964		
4013	1	1	4276	ROBERT L MACHA ET AL	1200	Irrigation	11/29/1982		
4013	6	1		ROCKING W RANCH LP	900	Irrigation	11/14/1947	7 RESERVOIRS	646
4013	6	2		DALTON BEND RANCH LTD	429	Storage	11/14/1947		
4014	1	1	4270	WALSH RANCH LTD PARTNERSHIP	1851	Irrigation	9/22/1982		
4014	6	1		FRED HAGAMAN ET AL	500	Irrigation	4/12/1926		1158
4014	6	2		FRED HAGAMAN ET AL	100	Industrial	4/12/1926		
4015	1	1	4249	CHAMBERLIN FAMILY TRUST	350	Irrigation	9/20/1982		
4015	1	2	4249	CALVIN KRAEMER ET UX	350	Irrigation	9/20/1982		
4015	6	1		FRED HAGAMAN ET AL	27	Irrigation	12/31/1963		
4016	1	1	4283	KR SOD-BRAZOS LP	1742.45	Irrigation	12/20/1982		
4016	1	2	4283	KR SOD-BRAZOS LP	990	Irrigation	3/13/1984		
4016	1	3	4283	KR SOD-BRAZOS LP		Domestic/Livestock	12/20/1982	RES 1 (21 AF) & RES 3 (9 AF) ON BI	30
4016	1	4	4283	KR SOD-BRAZOS LP	1400	Irrigation	12/20/1982		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
4016	1	5	4283	HARVEST GUARD INC	756.55	Irrigation	12/20/1982		
4016	1	6	4283	TED HIGGINBOTTOM ET AL	551	Irrigation	12/20/1982	RES 2	13
4016	6	1		HUBERT H CAPPS	22	Irrigation	5/17/1971		
4017	1	1	4284	JERRY M MOORE	591.876	Irrigation	12/20/1982		
4017	1	2	4284	MELANIE M KOLBY	370.524	Irrigation	12/20/1982		
4017	6	1		LYNDAL D GARNER JR ET UX	40	Irrigation	11/19/1973		
4018	6	1		ROSS HODGES	40	Irrigation	11/19/1973		48
4019	6	1		CITY OF STRAWN	160	Municipal	4/19/1937		1200
4020	6	1		PERRY R HORTON ET AL	362	Irrigation	2/15/1963		
4021	6	1		R J CARAWAY	30	Irrigation	3/1/1971		164
4021	6	2		R J CARAWAY	41	Mining	3/1/1971		
4022	6	1		PENNY SPARKS	60	Irrigation	4/30/1963		
4023	1	1	4320	DON WEINACHT ET AL	600	Irrigation	2/7/1983		
4023	6	1		A D CRAWFORD	30	Irrigation	4/30/1964		30
4024	1	1	4322	LVGC INC	300	Irrigation	2/7/1983		15
4024	6	1		CITY OF GORDON	360	Municipal	6/4/1973		1023
4024	6	2		CITY OF GORDON	45	Municipal	5/22/1978		60
4025	6	1		TARRANT INVESTMENT CO INC	60	Municipal	10/15/1973		700
4025	6	2		TARRANT INVESTMENT CO INC	30	Mining	10/15/1973		
4025	6	3		TARRANT INVESTMENT CO INC		Recreation	10/15/1973		
4026	6	1		WINGSHOT LP	20	Municipal	10/15/1973		
4027	6	1		JACK R DAUGHERTY	80	Irrigation	1/20/1965		969
4028	6	1		HELEN H MCDANIEL	38	Irrigation	5/31/1933		30
4029	6	1		FAWCETT LIMITED	2	Irrigation	1/5/1970		26
4030	6	1		FAWCETT LIMITED		Recreation	2/7/1977		307
4031	6	1		PALO PINTO CO MWD 1	10000	Municipal	7/3/1962	LAKE PALO PINTO	44100
4031	6	2		PALO PINTO CO MWD 1	2500	Municipal	9/8/1964	LAKE PALO PINTO	24
4031	6	3		PALO PINTO CO MWD 1	6000	Industrial	7/3/1962	LAKE PALO PINTO	
4032	6	1		CHARLIE RAY COCKBURN	16	Irrigation	7/31/1965		
4033	6	1		JAMES R & JANICE MOORE	12	Industrial	6/26/1972		24
4034	6	1		HELEN H MCDANIEL	30	Irrigation	3/31/1955		15
4035	6	1		HELEN H MCDANIEL	5	Irrigation	12/31/1963		
4036	6	1		FAWCETT LIMITED	55	Irrigation	10/11/1977		139
4037	6	1		WILLIAM S SQUYRES ET AL	100	Irrigation	4/30/1965		
4038	6	1		HERMAN PETTY	150	Irrigation	5/31/1964		
4042	1	1	4321	T W WHALEY JR	700	Irrigation	10/3/1983		
4048	6	1		H D HOWARD	25	Irrigation	11/8/1976		
4048	6	2		H D HOWARD	35	Municipal	11/8/1976		
4048	6	3		H D HOWARD		Recreation	11/8/1976		
4049	6	1		FRED L THORMANN	12	Irrigation	4/30/1964		2
4050	6	1		ROBIN THORMANN ET AL	23	Irrigation	4/30/1964		2
4054	6	1		JESSE T CROWDER JR TRUST	4.31	Irrigation	7/31/1962		
4054	6	2		JOHN WESSLER ET AL	26.85	Irrigation	7/31/1962		
4054	6	3		T J WELLMAN	7.84	Irrigation	7/31/1962		
4055	6	1		JUSRYN COMPANY INC	42	Irrigation	7/31/1955		
4056	6	1		J M LEONARD TRUST	144	Irrigation	8/31/1967		1454
4057	6	1		MARY L & C W KILLOUGH	109	Irrigation	6/30/1962		
4058	6	1		OAK TRAIL OWNERS ASSOCIATION		Recreation	12/20/1976		24

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4059	6	1		HELEN T DURHAM ESTATE	35	Irrigation	12/31/1963		
4060	6	1		ESTATE OF E E DURHAM ET UX	248.438	Irrigation	7/31/1950		
4060	6	2		MAXIE OVERSTREET	74.344	Irrigation	7/31/1950		
4060	6	3		DURHAM OVERSTREET TRUST	146.609	Irrigation	7/31/1950		
4060	6	4		DURHAM OVERSTREET TRUST		Municipal	7/31/1950		
4060	6	5		DURHAM OVERSTREET TRUST		Industrial	7/31/1950		
4060	6	6		OVERSTREET FAMILY LP ET AL	146.609	Irrigation	7/31/1950		
4060	6	7		OVERSTREET FAMILY LP		Municipal	7/31/1950		
4060	6	8		OVERSTREET FAMILY LP		Industrial	7/31/1950		
4061	6	1		BURTON S BURKS SR ET AL	65	Irrigation	5/31/1956		
4062	6	1		MARK O THOMAS FAMILY IRREVOCABLE ASSET	383	Irrigation	12/31/1955	LAKE GRANBURY	
4063	1	1	4384	N S WATERMAN JR ET UX	270	Irrigation	7/11/1983		30
4063	6	1		GRANPEN ASSOCIATES LP	270.13	Irrigation	7/31/1963		
4063	6	2		ALAMO BUILDERS LP	4.42	Irrigation	7/31/1963		
4063	6	3		THE RESORT AT EAGLE MOUNTAIN LAKE LP	24.47	Irrigation	7/31/1963		
4063	6	4		JUSRYN COMPANY INC	48.98	Irrigation	7/31/1963		
4064	6	1		BURTON S BURKS ET UX	25	Irrigation	12/31/1963		
4065	6	1		ROBERT & C J WHITEHEAD	84	Irrigation	8/31/1963		
4066	6	1		COMANCHE HARBOR OWNERS ASSN		Recreation	12/20/1976		43
4067	6	1		COURTS K CLEVELAND JR	63	Irrigation	12/31/1956		
4068	6	1		LOU ANN LANGFORD	72	Irrigation	7/31/1967		
4069	6	1		WALKER MURRAY RANDLE	120	Irrigation	10/21/1974		
4070	6	1		LESLIE L MABERY	141	Irrigation	8/31/1956		
4071	6	1		R E MABERY	83	Irrigation	8/31/1956		
4072	6	1		LENMO INC	308	Irrigation	12/31/1956	OFF-CHANNEL RES	1
4072	6	2		LENMO INC	172	Irrigation	12/31/1963	FROM LAKE GRANBURY	
4072	6	3		LENMO INC	117	Irrigation	5/31/1962	FROM LAKE GRANBURY	
4073	6	1		JAMES R ROBINSON	42	Irrigation	8/19/1956		
4074	6	1		E F ALLISON	26	Irrigation	8/19/1956		
4075	6	1		THE R K HANGER TRUST		Recreation	7/5/1976		300
4076	1	1	4410	CULLEN V MANCUSO ET UX	93	Irrigation	11/7/1983		
4076	1	2	4410	JAMES BARNETT ET AL	157	Irrigation	11/7/1983		
4076	6	1		D J VAUGHN	15.49	Irrigation	7/10/1966		
4076	6	2		ROBIN K SNIDER ET AL	23.51	Irrigation	7/10/1966		
4077	6	1		D J BROWN ET UX	30	Irrigation	8/31/1964		
4078	1	1	4401	JOHN R WOODALL ET AL	825	Irrigation	9/26/1983		
4078	6	1		ROBERT & MARGARET KING INV INC	54	Irrigation	9/30/1957		
4079	6	1		JAMES ROBERT HILL	92	Irrigation	8/31/1964		20
4080	1	1	4398	GATHAN REISTINO	1500	Irrigation	7/19/1983		47
4080	6	1		J V & M G DURANT	112	Irrigation	7/2/1966		
4081	6	1		F L VAUGHN	160	Irrigation	7/2/1966		
4082	6	1		S B GRISSOM	203	Irrigation	7/31/1950		
4083	6	1		ROBERT L FOREE JR	45	Irrigation	9/30/1963		
4084	6	1		EARL R ALLISON	9.12	Irrigation	11/19/1973		25
4084	6	2		EARL R ALLISON	25	Other	11/19/1973		
4084	6	3		DANE ALLISON ET UX	15.88	Irrigation	11/19/1973		
4085	6	1		EARL R ALLISON	10.34	Irrigation	12/9/1974		
4085	6	2		DANE ALLISON ET UX	17.66	Irrigation	12/9/1974		

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4086	6	1		GARY & BEVERLY LEWELLEN	15	Irrigation	9/2/1975		2
4087	6	1		LELAND A HODGES ET AL	81	Irrigation	9/30/1965		360
4088	6	1		MILTON C & VIVIAN YOUNG	55	Irrigation	6/30/1966		2
4089	6	1		JACOB T & LAURA DAMERON	31	Irrigation	3/31/1963		
4090	6	1		RICHARD T LIETZ ESTATE	197	Irrigation	8/14/1967		332
4091	1	1	4419	RIVER CHASE SUBDIVISION II LTD		Domestic/Livestock	1/3/1984		11
4091	6	1		KENNETH LESLEY	360	Irrigation	1/20/1965		511
4092	6	1		ROBERT D ADAMS SR	6	Irrigation	7/31/1964		
4093	6	1		ERNEST H CANNON	94	Irrigation	12/31/1963		
4094	6	1		J B SANDERSON ET AL	16	Irrigation	6/30/1935		
4095	1	1	4430	SIDNEY KACIR	240	Irrigation	1/17/1984		
4095	1	2	4430	SIDNEY KACIR	308	Irrigation	8/16/1999		
4095	6	1		J C MCFALL	10	Irrigation	12/31/1949		
4096	6	1		CITY OF GLEN ROSE		Recreation	5/28/1974		2
4097	6	1		TXU ELECTRIC CO	23180	Industrial	4/25/1973	SQUAW CREEK RESERVOIR	151500
4098	6	1		BOB HARRIS OIL CO	258	Irrigation	7/31/1954		
4099	6	1		DOROTHY W LITTLE ET AL	5	Irrigation	8/31/1949		
4100	6	1		TRINITY MATERIALS INC	125	Mining	12/31/1959		
4101	6	1		TEXAS PARKS & WILDLIFE DEPT		Recreation	9/9/1969	CEDAR LAKE	1450
4102	6	1		STANDARD INVESTMENT CO	77	Irrigation	12/31/1963		
4102	6	2		STANDARD INVESTMENT CO		Industrial	12/31/1963		
4103	6	1		CYRIL WAGNER JR ET AL	186	Irrigation	12/31/1955		
4104	6	1		CHISHOLM TRAIL VENTURES LP	3811	Irrigation	12/31/1957		
4105	6	1		WESLEY RAY CARSON	8.04	Irrigation	1/31/1977		
4105	6	2		CREPE MYRTLE OF TEXAS INC	3.96	Irrigation	1/31/1977		
4106	6	1		CITY OF CLEBURNE	5760	Municipal	8/6/1962	LAKE PAT CLEBURNE	25600
4106	6	2		CITY OF CLEBURNE		Industrial	8/6/1962	LAKE PAT CLEBURNE	
4106	6	3		CITY OF CLEBURNE	240	Irrigation	3/29/1976	LAKE PAT CLEBURNE	
4106	6	4		CITY OF CLEBURNE		Municipal	8/30/2004	LAKE PAT CLEBURNE	
4106	6	5		CITY OF CLEBURNE		Industrial	8/30/2004	LAKE PAT CLEBURNE	
4106	6	6		CITY OF CLEBURNE		Irrigation	8/30/2004	LAKE PAT CLEBURNE	
4107	6	1		RIVERVIEW GOLF CLUB LP	231	Irrigation	12/31/1964		12
4108	6	1		HARRY V DULICK	15.19	Irrigation	6/30/1961		
4108	6	2		HARRY V DULICK	5	Industrial	6/30/1961		
4108	6	3		DSF LTD	11.815	Irrigation	6/30/1961		
4109	1	1	4436	BETTY KACIR WHEELER	400	Irrigation	2/28/1984		
4109	6	1		LOUIS & VIRGINIA GREGORY	10	Irrigation	5/8/1969		10
4110	6	1		LUCILLE C BUTLER	20	Irrigation	7/31/1966		
4111	6	1		PAUL C MURPHY JR	6	Irrigation	7/31/1953		15
4112	6	1		LOUIS & VIRGINIA GREGORY	12	Irrigation	3/23/1964		
4113	6	1		JAMES M WALKER	43	Irrigation	5/31/1964		140
4114	6	1		THOMAS BROTHERS GRASS LTD	300	Irrigation	7/31/1955		
4114	6	2		THOMAS BROTHERS GRASS LTD		Irrigation	7/31/1955	LAKE GRANBURY	
4114	6	3		THOMAS BROTHERS GRASS LTD		Irrigation	7/31/1955	LAKE GRANBURY	
4115	6	1		H & H FEEDLOT INC	45	Industrial	12/31/1958		127
4116	6	1		MARJORIE HAMBRIGHT	2	Irrigation	12/31/1926		
4117	6	1		BETTY BELL	1	Irrigation	12/31/1955		
4118	6	1		ZANNA H ANDERSON	8	Irrigation	12/31/1963		

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4119	6	1		ALFRED L CAREY ET UX	5	Irrigation	12/31/1963		5
4120	6	1		MAX D CARRIKER ESTATE ET AL	74	Irrigation	12/31/1937		15
4121	6	1		WILLARD L BURK	263	Irrigation	5/31/1936		26
4122	6	1		MAX D CARRIKER ESTATE	60	Irrigation	12/31/1962		22
4123	6	1		FREDDIE MAC STUART	17	Irrigation	2/29/1928		12
4124	1	1	4226	BRUCE E TODD	225	Irrigation	6/21/1982		180
4124	6	1		ALFRED S WALDROP ET AL	55	Irrigation	4/3/1926		
4126	6	1		BOYD H LAKEY	55	Irrigation	12/31/1949		20
4127	6	1		JAMES RANDOLPH SCOTT	120	Irrigation	4/30/1967		
4128	1	1	4451	FLOYD GUNN	102	Irrigation	5/8/1984		
4128	6	1		CITY OF SWEETWATER	2000	Municipal	10/8/1914	LAKE TRAMMEL	2500
4129	6	1		SWEETWATER COUNTRY CLUB INC	40	Irrigation	7/6/1916		892
4130	1	1	4450	UNITED STATES ARMY CORP ENG	5	Recreation	5/8/1984		5
4130	6	1		CITY OF SWEETWATER	2730	Municipal	10/17/1927	LAKE SWEETWATER	10000
4130	6	2		CITY OF SWEETWATER	960	Industrial	10/17/1927		
4130	6	3		CITY OF SWEETWATER	50	Irrigation	10/17/1927		
4132	6	1		HARRY C REAUGH & WIFE	212	Irrigation	12/31/1965		
4133	6	1		THOMAS HICKS ET UX	59.84	Irrigation	12/31/1964		
4133	6	2		KENNETH M FARRINGTON	165.16	Irrigation	12/31/1964		7
4134	6	1		BILLY DOAN	45	Irrigation	10/6/1969		
4135	1	1	4453	CITY OF CRAWFORD	55	Municipal	5/15/1983		230
4135	6	1		TIN CUP COUNTRY CLUB LP	28	Irrigation	5/2/1966		
4136	6	1		TLC INVESTMENTS LLC	338	Mining	7/22/1948		850
4136	6	2		TLC INVESTMENTS LLC	7	Industrial	7/22/1948		
4136	6	3		TLC INVESTMENTS LLC		Recreation	7/22/1948		
4137	6	1		TERRI THOMAS	54	Irrigation	7/13/1926		
4138	6	1		ROGER F BOYD ET UX	2	Irrigation	3/16/1964		
4139	6	1		CITY OF ABILENE		Municipal	8/3/1949	DIVERSION TO FT PHANTOM HILL	608
4140	1	1	4443	JOE D DUNCAN		Other	4/10/1984		
4140	6	1		RALPH BRIDWELL ET UX	10	Irrigation	12/31/1966		
4140	6	2		JAMES GRAY BRIDWELL	155	Irrigation	12/31/1966		
4141	6	1		DOLLY KEESEE	69	Irrigation	5/31/1967		
4142	6	1		CITY OF ABILENE	1675	Municipal	1/23/1918	LAKE ABILENE	11868
4143	6	1		KICKAPOO LAND CO	50	Recreation	12/18/1972		66
4144	6	1		FIRST CHOICE FEEDERS LP	73	Industrial	12/31/1964		120
4145	1	1	4454	JOHN W NIGLIAZZO ET UX	448	Irrigation	5/15/1984		
4145	6	1		BILL JAY ET AL	168	Industrial	12/31/1964		150
4146	6	1		J H TAYLOR GAS COMPANY	4	Irrigation	5/31/1948		6
4147	6	1		LEE ARTHUR PRESSWOOD	14	Irrigation	5/31/1963		
4148	6	1		RILEY G MAXWELL CO	3.48	Irrigation	8/31/1964		
4148	6	2		A L RHODES	0.01	Irrigation	8/31/1964		
4148	6	3		EDWARD DUSTY RHODES	1.51	Irrigation	8/31/1964		
4149	6	1		NOEL W PETRE	42	Irrigation	4/30/1963		
4150	6	1		CITY OF ABILENE	3880	Municipal	10/10/1927	LAKE KIRBY	8500
4150	6	2		CITY OF ABILENE		Industrial	10/10/1927	LAKE KIRBY	
4150	6	3		CITY OF ABILENE		Irrigation	10/10/1927		
4151	6	1		AEP TEXAS NORTH COMPANY	2500	Industrial	10/12/1928	UPPER LYTLE LAKE	
4152	6	1		LYTLE LAKE WCID	230	Municipal	6/10/1914	LYTLE LAKE	1184

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4152	6	2		LYTLE LAKE WCID	360	Industrial	11/21/1967	LYTLE LAKE	
4152	6	3		LYTLE LAKE WCID		Recreation	11/21/1967	LYTLE LAKE	
4153	6	1		CITY OF ABILENE		Industrial	6/10/1914		62
4153	6	2		CITY OF ABILENE		Recreation	6/10/1914		
4154	6	1		AEP TEXAS NORTH COMPANY		Industrial	5/12/1921	CEDAR CREEK	10
4155	6	1		RAYMOND MCNUTT	6	Irrigation	12/31/1959		
4156	6	1		ROY ELTON ROBBINS & WIFE	5	Irrigation	5/31/1964		
4157	6	1		H C WELCH	70	Irrigation	12/31/1967		
4158	6	1		ROY J GRIFFITH	75	Irrigation	11/30/1944		175
4158	6	2		ROY J GRIFFITH		Irrigation	11/30/1944		
4159	6	1		J C GRIFFITH	42	Irrigation	12/31/1938		80
4160	6	1		WOODROW W GRIFFITH		Recreation	10/15/1974		40
4161	6	1		CITY OF ABILENE	25690	Municipal	3/25/1937	FORT PHANTOM HILL RES	73960
4161	6	2		CITY OF ABILENE	4000	Industrial	3/25/1937	FORT PHANTOM HILL RES	
4161	6	3		CITY OF ABILENE	1000	Irrigation	3/25/1937	FORT PHANTOM HILL RES	
4162	6	1		JAMES H ICE	179	Irrigation	12/31/1959		
4163	6	1		PATRICIA A COOK ET AL	44	Irrigation	12/31/1959		
4164	6	1		J N MONTGOMERY & WIFE	32	Irrigation	12/31/1966		
4165	6	1		CITY OF ABILENE	3000	Municipal	9/3/1954		
4166	1	1	4470	SAMUEL W JONES ET UX	120	Irrigation	7/31/1984		
4166	1	2	4470	SAMUEL W JONES ET UX		Irrigation	7/31/1984		
4166	6	1		IRLENE M SMITH ET AL	32	Irrigation	12/31/1965		
4167	6	1		GEOCHEMICAL SURVEYS	40	Mining	8/28/1967		6
4168	6	1		ZOHN MILAM	15	Irrigation	5/31/1956		
4169	6	1		RICHARD SCHKADE	62	Irrigation	10/19/1970		
4169	6	2		RICHARD SCHKADE	5	Mining	10/19/1970		0.1
4170	6	1		J M ALEXANDER RANCH CO LTD	200	Irrigation	7/31/1962		
4171	1	1	4482	35/45 INVESTORS LP		Recreation	8/14/1984	EXEMPT RESERVOIR	19
4171	6	1		MARY LOIS WILSON	310	Irrigation	12/31/1918		
4172	6	1		VIOLET H FRAZIER	92	Irrigation	7/31/1963		
4173	6	1		VIOLET H FRAZIER	40	Irrigation	7/31/1965		
4174	6	1		MARILOU DOUTHIT RYDL		Recreation	10/2/1918		375
4174	6	2		ADRON STALEY		Recreation	10/2/1918		375
4174	6	3		C G VICKERS ET AL		Recreation	10/2/1918		375
4175	6	1		H R STASNEY & SONS LTD	21	Municipal	7/1/1926		108
4175	6	2		H R STASNEY & SONS LTD	63	Mining	7/1/1926		
4176	6	1		JOSEPH ELMER COX	28.8	Irrigation	12/31/1962		
4176	6	2		KIRK MERRITT ET UX	91.2	Irrigation	12/31/1962		1
4177	6	1		W B GRIFFITH ET AL	95	Irrigation	12/31/1955		18
4178	6	1		EMILEE G GOFF ET AL	78	Irrigation	12/31/1955		30
4179	6	1		CITY OF STAMFORD	10000	Municipal	6/8/1949	LAKE STAMFORD	59810
4179	6	2		CITY OF STAMFORD		Industrial	6/8/1949	LAKE STAMFORD	
4179	6	3		CITY OF STAMFORD		Storage	6/8/1949	COLLEGE LAKE	190
4179	6	4		CITY OF STAMFORD		Municipal	4/4/2000	DETENTION POND	705
4179	6	5		CITY OF STAMFORD		Industrial	4/4/2000	DETENTION POND	
4180	6	1		CITY OF HAMLIN	300	Municipal	3/3/1939		1900
4181	6	1		CITY OF ANSON	542	Municipal	4/18/1950	ANSON NORTH LAKE	2500
4182	6	1		CITY OF ANSON		Recreation	3/3/1975	CITY LAKE	560

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
4183	6	1		MARSHALL D O'DELL	150	Irrigation	5/8/1978		7
4184	6	1		HASKELL COUNTY COUNTRY CLUB	7	Irrigation	7/25/1977	2 RES: 75 AF & 15 AF	75
4184	6	2		HASKELL COUNTY COUNTRY CLUB		Recreation	7/25/1977	2 RES: 75 AF & 15 AF	
4185	6	1		ERNEST D FINCHER	10	Irrigation	7/14/1975		10
4186	6	1		RAYMOND C TAYLOR ET AL	43	Irrigation	9/16/1966		60
4187	6	1		GEORGE E CLARK EXEMPT INVESTMENT TRUST	300	Irrigation	12/31/1952		
4188	6	1		T C HARRIS JR	40	Irrigation	12/31/1914		
4189	6	1		GEORGE E CLARK EXEMPT INVESTMENT TRUST	69	Irrigation	8/31/1958		
4190	6	1		BRECKENRIDGE PARTNERSHIP LTD	70	Irrigation	8/31/1958		
4191	6	1		MICHELLE SMITH	33.3803	Irrigation	5/31/1964		
4191	6	2		WILLIAM RANDOLPH SMITH	47.53	Irrigation	5/31/1964		
4191	6	3		DAVID IVAN BANDY ET AL	96.4122	Irrigation	5/31/1964		
4191	6	4		KILLION PARTNERS LTD	17.6775	Irrigation	5/31/1964		
4192	6	1		MRS W R POWERS ESTATE	30	Irrigation	12/31/1915		
4193	6	1		MONTY CHRIS CLEVELAND		Domestic/Livestock	4/13/1920		165
4194	6	1		CITY OF WOODSON		Storage	3/14/1963		1003
4194	6	2		STEPHENS REGIONAL SPECIAL UTILITY DIST	60	Municipal	3/14/1963		
4195	6	1		GILBERT E BRANDENBERGER ET UX	22	Irrigation	6/30/1962		
4196	6	1		ICBT BRAZOS BEND LLC	18	Irrigation	5/20/1967		
4197	6	1		J W SULLIVAN	20	Irrigation	12/31/1955		
4198	6	1		MONTY CHRIS CLEVELAND		Domestic/Livestock	2/16/1920		430
4199	6	1		OWEN D WOODWARD	98	Irrigation	12/31/1924		3
4200	6	1		CHARLES EZZELL ET UX		Domestic/Livestock	11/15/1976		200
4201	6	1		CITY OF BAIRD		Domestic/Livestock	6/19/1914	T P LAKE	390
4202	6	1		CITY OF BAIRD	550	Municipal	7/6/1949	BAIRD LAKE	2070
4203	6	1		A E DYER JR	24	Irrigation	7/31/1963	2 RES; 2.5 AF & 5 AF	7.5
4204	6	1		MARTHA W GEORGE ET AL	16	Irrigation	7/31/1963		
4205	6	1		EUGENE LEE FINLEY	50	Irrigation	12/31/1946		
4206	6	1		TERRY T POSEY ET UX	40	Irrigation	9/8/1927		13
4207	6	1		CITY OF MORAN	90	Municipal	4/2/1923	MORAN CITY LAKE & UNNAMED RE	181
4208	6	1		CITY OF ALBANY	600	Municipal	3/25/1941	MCCARTY LAKE	2600
4209	6	1		DAMSON OIL CORP ET AL	50	Industrial	3/3/1925	LAKE DELAFOSSE	773
4210	6	1		JAMES R GREEN	35	Irrigation	5/31/1965		72
4211	6	1		CITY OF CISCO	1971	Municipal	4/16/1920	LAKE CISCO	45000
4211	6	2		CITY OF CISCO	56	Industrial	9/5/1978		
4212	1	1	4528	CARL MOODY ET AL	300	Irrigation	1/3/1985		
4212	6	1		CITY OF CISCO	1000	Municipal	11/8/1954		110
4213	6	1		WEST CENTRAL TEXAS MWD	56000	Municipal	5/28/1957	HUBBARD CREEK LAKE	317750
4213	6	2		WEST CENTRAL TEXAS MWD		Industrial	5/28/1957		
4213	6	3		WEST CENTRAL TEXAS MWD		Irrigation	8/14/1972		
4213	6	4		WEST CENTRAL TEXAS MWD		Mining	5/28/1957		
4213	6	5		WEST CENTRAL TEXAS MWD		Domestic/Livestock	8/14/1972		
4214	6	1		CITY OF BRECKENRIDGE	2100	Municipal	4/26/1946	LAKE DANIEL	11400
4215	6	1		T C FAMBRO & SONS	6	Irrigation	7/31/1947		7
4216	6	1		SARAH SATTERWHITE	30	Irrigation	4/30/1966		
4217	6	1		SWANSON MULESHOE RANCH LTD	218	Mining	4/28/1975	GRAND LAKE	375
4218	1	1	4520	THE SILVER QUAIL COMPANY	172	Irrigation	11/27/1984		
4218	6	1		JACK T ROBERTSON JR	32	Irrigation	6/30/1955		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
4219	6	1		ELLA PEARL ROBERTSON	22	Irrigation	12/31/1945		
4220	6	1		ELLA PEARL ROBERTSON	39	Irrigation	4/30/1964		
4221	6	1		ELLA PEARL ROBERTSON	42	Irrigation	8/31/1949		
4222	6	1		ELLA PEARL ROBERTSON	45	Irrigation	4/30/1961		
4223	6	1		BRECKENRIDGE GASOLINE CO	97	Industrial	6/1/1926		
4223	6	2		BRECKENRIDGE GASOLINE CO		Mining	6/1/1926		
4224	6	1		BRECKENRIDGE GASOLINE CO		Recreation	3/16/1920		454
4225	6	1		E E RILEY	30	Irrigation	12/31/1954		
4226	6	1		LAURA ELIZABETH STOKES ROACH	628	Irrigation	6/30/1961		
4227	6	1		C R BALDWIN JR	181	Irrigation	8/31/1946		
4242	6	1		WILLIAM T MORAN ESTATE		Recreation	10/6/1975		270
4244	6	1		DARRELL R HALL		Recreation	6/23/1975		290
4245	6	1		W T BRACEWELL		Recreation	4/14/1975		
4258	1	1	4567	CITY OF CLEBURNE	720	Municipal	5/21/1985		552
4264	1	1	4577	GEORGE BINGHAM ET AL	40	Irrigation	6/18/1985		
4266	1	1	4589	CITY OF ABILENE	4330	Irrigation	7/2/1985	7 HOLDING PONDS	1003.6
4266	1	2	4589	CITY OF ABILENE		Irrigation	7/2/1985	7 HOLDING PONDS	
4279	1	1	4591	WARRENS TURF NURSERY INC	52.2	Irrigation	7/9/1985		
4279	1	2	4591	HILLIARD RANCHES INC	606.47	Irrigation	7/9/1985		38
4279	1	3	4591	JAMES GREGORY WILSON ET AL	91.33	Irrigation	7/9/1985		
4315	6	1		CLIFFORD N AUTEN	30	Irrigation	12/31/1960		
4316	6	1		B W BOWERS & WIFE	75	Irrigation	12/31/1961		
4317	6	1		MARY ANN JENKINS ET AL	243	Irrigation	12/31/1963		
4318	6	1		CHS FARMS LTD	497	Irrigation	12/31/1921		
4318	6	2		JOHN MCPHERSON ET AL	150	Irrigation	12/31/1921		
4318	6	3		LAKEVIEW RECREATION ASSOCIATION INC	20	Irrigation	12/31/1921	2 RES	8.54
4318	6	4		SMITH BEND RANCH LTD	2153	Irrigation	12/31/1921		288
4318	6	5		SMITH BEND RANCH LTD		Municipal	12/31/1921		
4318	6	6		SMITH BEND RANCH LTD		Industrial	12/31/1921		
4319	6	1		BIRCH WILFONG	34	Irrigation	3/31/1962		
4320	6	1		WARREN D WHITLOW ET UX	84	Irrigation	7/31/1967		
4321	6	1		DAVID BALLEW	337	Irrigation	8/31/1963		
4322	6	1		RONALD LEE BURNETTE	175	Irrigation	6/30/1964		
4323	6	1		RONALD LEE BURNETTE	18	Irrigation	6/30/1956		
4323	6	2		KENNETH GAGE BURNETTE	155	Irrigation	6/30/1956		
4324	6	1		CHARLES L HARLESS ET UX	305	Irrigation	6/30/1965		12
4325	6	1		NELDA KATHRYN CARGILL	48	Irrigation	6/30/1967		
4326	6	1		DAN WELDON WILLIAMS	6	Irrigation	12/31/1959		
4327	6	1		DAN WELDON WILLIAMS	4	Irrigation	12/31/1959		
4328	6	1		GEORGE L MOORE	40	Irrigation	7/1/1964		
4329	6	1		THOMAS BROTHERS GRASS LTD	74	Industrial	12/31/1964		
4329	6	2		JIMMY LEWIS GIFFORD ET UX	856	Irrigation	12/31/1964		
4330	6	1		KARL LEE REDDELL & WIFE	16	Irrigation	12/31/1940		
4331	6	1		DIANA M WELLBORN ET AL	44	Irrigation	12/31/1940		
4332	6	1		KARL LEE REDDELL ET AL	32	Irrigation	12/31/1940		
4333	6	1		HILLSBORO COUNTRY CLUB	8	Irrigation	6/14/1976		18
4334	6	1		JOE R CUNNINGHAM ET UX	1	Irrigation	8/11/1964		50
4335	6	1		ALPHONS D URBANOVSKY	40	Irrigation	7/31/1964		

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4336	6	1		FAYE SMITH ROMINE	55	Irrigation	6/30/1953		
4336	6	2		KAYE SMITH BOYD	55	Irrigation	6/30/1953		
4337	6	1		NATALIE RISINGER	58	Irrigation	6/30/1966		
4338	6	1		JIM G DOLLINS SR	130	Irrigation	5/23/1963		
4339	6	1		BONNIE T GEORGE	100	Irrigation	5/23/1963		
4339	6	2		CHARLENE WALKER		Irrigation	5/23/1963		
4339	6	3		JEANNETTE & BILLY O ENGLISH		Irrigation	5/23/1963		
4340	6	1		CITY OF WACO	5600	Municipal	6/29/1914	LAKE BRAZOS	3537
4340	6	2		CITY OF WACO		Industrial	6/29/1914	LAKE BRAZOS	
4340	6	3		CITY OF WACO		Recreation	1/8/1968	LAKE BRAZOS	
4342	6	1		TRADINGHOUSE POWER CO LLC	12000	Industrial	8/21/1926	TRADINGHOUSE CREEK LAKE	37800
4342	6	2		TRADINGHOUSE POWER CO LLC	15000	Industrial	9/16/1966	TRADINGHOUSE CREEK LAKE	
4343	6	1		OAK LAKE CLUB		Recreation	2/12/1973		
4344	6	1		LOLA ROBINSON	1060	Irrigation	3/16/1918		
4345	6	1		LUMINANT GENERATION CO LLC	10000	Industrial	3/6/1951	LAKE CREEK	8500
4346	6	1		W J DUBE	200	Irrigation	8/28/1925		
4347	6	1		VANCE DUNNAM JR	12	Irrigation	11/2/1970	TRIB OF SOUTH FORK COW BAYO	200
4348	6	1		JOE RAY HATTER SR	70	Irrigation	1/6/1965	TRIB OF S FK COW	
4349	6	1		RDS LAND CO LLC	199	Irrigation	1/23/1978		
4350	6	1		JOHN P ESTES ESTATE TRUST ET AL	20	Irrigation	5/24/1966	NORTH COW BAYOU	44
4351	6	1		MONT HAMM	160	Irrigation	5/2/1955		80
4352	6	1		GOELZER CATTLE COMPANY		Recreation	1/25/1965		569
4353	6	1		DENNIS L BIRKES ET AL	40	Irrigation	6/21/1965		200
4354	6	1		JEAN W EPPERSON	50	Irrigation	6/21/1965		
4355	6	1		CITY OF MARLIN	4000	Municipal	4/9/1948	NEW MARLIN RES	3135
4355	6	2		CITY OF MARLIN	2000	Municipal	11/27/1956		
4355	6	3		CITY OF MARLIN		Recreation	11/1/1976	MARLIN CITY LAKE	791
4355	6	4		CITY OF MARLIN	2000	Industrial	11/27/1956		
4355	6	5		CITY OF MARLIN		Recreation	6/16/1986	BRUSHY CR RES	6560
4356	6	1		DAVID L ROBERTS ET UX	84	Irrigation	2/7/1967		512
4356	6	2		DAVID L ROBERTS ET UX		Recreation	2/7/1967		
4357	6	1		CAMP FIRE INC BLUEBONNET COUNCIL		Recreation	2/11/1965		195
4358	6	1		JOHN C ISAACS ET AL	991	Irrigation	5/3/1982		
4359	6	1		JOHN C ISAACS ET AL	991	Irrigation	10/22/1925		
4360	6	1		CITY OF ROSEBUD	224	Municipal	11/28/1961	CITY LAKE	408
4361	6	1		ELIOT FAMILY LIMITED PARTNERSHIP	184	Irrigation	12/31/1961		
4362	6	1		LEE J FAZZINO ET UX	363	Irrigation	6/30/1959		
4363	6	1		JOE REISTINO ESTATE	1068	Irrigation	9/19/1983		
4363	6	2		JOE REISTINO ESTATE	432	Irrigation	12/31/1951		
4364	6	1		CLIFF A SKILES JR	724	Irrigation	12/31/1958		6
4365	6	1		WESLEY E ANDERSON ET AL	976	Irrigation	12/31/1953		
4366	6	1		ELLEN WIESE BRIEN ET AL	275	Irrigation	6/30/1957		
4366	6	2		ELLEN WIESE BRIEN ET AL	125	Irrigation	10/31/1983		
4367	6	1		CLIFFORD A SKILES ET UX	46.83	Irrigation	12/31/1959		
4367	6	2		PLANTERS AND MERCHANTS STATE BANK	98.17	Irrigation	12/31/1959		
4368	6	1		GLORIA ELY HOLDEN	76	Irrigation	8/31/1956		
4369	6	1		GENE W BONORDEN	4	Irrigation	12/31/1965		4
4370	6	1		ONAH B PENN ET AL	297	Irrigation	12/31/1954		15

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4371	6	1		SAM F DESTEFANO	410	Irrigation	7/31/1956		
4371	6	2		SAM F DESTEFANO	290	Irrigation	2/7/1983		
4372	6	1		FORBIN INVESTMENTS N V	700	Irrigation	3/9/1981		120
4373	6	1		DRAYTON MCLANE JR		Recreation	2/24/1975		177
4373	6	2		DRAYTON MCLANE JR		Recreation	2/24/1975		156
4374	6	1		LAKE WOODROW INC		Recreation	6/26/1972		166
4375	6	1		FLOYD KEMPENSKI	2.3	Irrigation	12/31/1963		
4375	6	2		JOHN D KEMPENSKI ET UX	1.7	Irrigation	12/31/1963	2 RES EQUALLING 20 AF	20
4376	6	1		NELSON FAMILY FARMING TRUST	74	Irrigation	8/31/1963		
4377	6	1		GEORGE C GASSEN	20	Irrigation	12/31/1958	3 DAMS & RESERVOIRS	48
4378	6	1		ROBERT H BENBOW		Recreation	6/27/1977		166
4767	6	1		JAMES IRA DUFF	60	Irrigation	12/31/1961		
4987	6	1		CITY OF HUBBARD		Recreation	12/15/1975		
4988	6	1		ROSSON RANCHES INC		Recreation	7/6/1970		
4989	6	1		VELMA MASH ET AL	24	Irrigation	7/24/1972		
4990	6	1		F J MCCAULEY	8	Irrigation	8/11/1964		
4990	6	2		F J MCCAULEY		Recreation	8/11/1964		
4991	6	1		THE RUDMAN PARTNERSHIP ET AL	83	Irrigation	8/11/1964		
4991	6	2		THE RUDMAN PARTNERSHIP ET AL		Recreation	8/11/1964		
4996	6	1		CITY OF COOLIDGE	160	Municipal	11/27/1956	RESERVOIRS 1, 2, & 3	538
4996	6	2		CITY OF COOLIDGE	2	Industrial	11/30/1981	RESERVOIRS 1, 2, & 3	
4996	6	3		CITY OF COOLIDGE		Recreation	11/30/1981	RESERVOIRS 1, 2, & 3	
4999	6	1		CARL G LARAMORE	43	Irrigation	5/31/1961		96
4999	6	2		CARL G LARAMORE		Recreation	5/31/1961		
5000	1	1	5000	CITY OF MART	500	Municipal	9/3/1985	NEW LAKE MART	1640
5000	1	2	5000	CITY OF MART		Recreation	9/3/1985	NEW LAKE MART	
5000	6	1		JOHN MICHAEL PERCIFIELD ET AL	8	Irrigation	6/30/1966	SEE 08-4999 FOR 96-AF RES	
5000	6	2		JOHN MICHAEL PERCIFIELD ET AL		Recreation	6/30/1966	SEE 08-4999 FOR 96-AF RES	
5001	6	1		CITY OF ALVARADO	500	Municipal	8/29/1961	LAKE ALVARADO	4781
5001	6	2		CITY OF ALVARADO	300	Industrial	8/29/1961		
5002	6	1		DAN A PARKER ET UX	135	Irrigation	8/17/1970		
5004	6	1		GEORGE W MARTI ET AL	30	Irrigation	5/31/1965		65
5005	6	1		BILLIE LOUISE YOUNG	21	Irrigation	7/31/1963		
5006	6	1		ISLAND GROVE RANCH LTD	200	Irrigation	4/8/1975		239
5028	1	1	5028	O'GRADY SIX O RANCH & CATTLE CO LC		Recreation	11/8/1985		895
5053	1	1	5053	TEXAS MUNICIPAL POWER AGENCY		Mining	4/3/1986	6 RES. RESERVOIR DP-1	1420
5053	1	2	5053	TEXAS MUNICIPAL POWER AGENCY		Recreation	4/3/1986	RESERVOIR DP-1	
5053	1	3	5053	TEXAS MUNICIPAL POWER AGENCY		Other	4/3/1986	RESERVOIR DP-1	
5053	1	4	5053	TEXAS MUNICIPAL POWER AGENCY		Domestic/Livestock	4/3/1986	RESERVOIR DP-1	
5073	1	1	5073	THOMAS RANDOLPH SIMPSON	60	Irrigation	7/8/1986		
5076	1	1	5076	HAYNES CORPORATION	25	Irrigation	7/18/1986		
5077	1	1	5077	BILL F FULTON ET UX	600	Irrigation	7/21/1986		
5081	1	1	5081	BRAZOS COAL LIMITED		Recreation	8/6/1986	RES 4, RES 11, RES 12	106
5085	1	1	5085	CITY OF ROBINSON	3290	Municipal	8/14/1986		1550
5085	1	2	5085	CITY OF ROBINSON	3172	Municipal	8/14/1986		2197
5085	1	3	5085	CITY OF ROBINSON	1805	Municipal	8/14/1986		1290
5085	1	4	5085	CITY OF ROBINSON	4833	Municipal	8/14/1986		3000
5088	1	1	5088	TC & E REALTY INC	37	Irrigation	8/19/1986		

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5089	1	1	5089	TC & E REALTY INC	60	Irrigation	8/19/1986		
5094	1	1	5094	CITY OF WACO	20081	Municipal	9/12/1986	LAKE WACO ENLARGEMENT	87962
5094	1	2	5094	CITY OF WACO	688	Municipal	1/21/1988	LAKE WACO ENLARGEMENT	
5094	1	3	5094	CITY OF WACO		Recreation	9/12/1986	LAKE WACO ENLARGEMENT	
5106	1	1	5106	WALNUT CREEK MINING COMPANY		Mining	10/22/1986		95
5116	6	1		RED RIVER AUTHORITY		Other	9/20/1976	TRUSCOTT BRINE RES	107000
5117	1	1	5117	WALNUT CREEK MINING COMPANY		Other	12/31/1986	SPC 17 & SPC 3	126
5118	1	1	5118	KILLEEN SAVINGS & LOAN ASSN		Recreation	1/12/1987		3
5119	6	1		INEZ H BOYD ET AL	20	Irrigation	9/8/1969		
5132	1	1	5132	TEXAS MUNICIPAL POWER AGENCY		Industrial	5/13/1987	RESERVOIRS P-14, SP-7, SP-4, SP-	2157
5132	1	2	5132	TEXAS MUNICIPAL POWER AGENCY		Recreation	5/13/1987	RESERVOIRS P-14, SP-7, SP-4, SP-8, DITCH CD	
5132	1	3	5132	TEXAS MUNICIPAL POWER AGENCY		Other	5/13/1987	RESERVOIRS P-14, SP-7, SP-4, SP-8, DITCH CD	
5132	1	4	5132	TEXAS MUNICIPAL POWER AGENCY		Domestic/Livestock	5/13/1987	RESERVOIRS P-14, SP-7, SP-4, SP-8, DITCH CD	
5148	1	1	5148	ALTURA POWER LP	458	Industrial	7/23/1987		178
5155	6	1		BRAZOS RIVER AUTHORITY	230750	Municipal	4/6/1938	POSSUM KINGDOM LAKE	724739
5155	6	2		BRAZOS RIVER AUTHORITY		Industrial	4/6/1938	POSSUM KINGDOM LAKE	
5155	6	3		BRAZOS RIVER AUTHORITY		Irrigation	4/6/1938	POSSUM KINGDOM LAKE	
5155	6	4		BRAZOS RIVER AUTHORITY		Mining	4/6/1938	POSSUM KINGDOM LAKE	
5155	6	5		BRAZOS RIVER AUTHORITY		Hydropower	4/6/1938	POSSUM KINGDOM LAKE	
5155	6	6		BRAZOS RIVER AUTHORITY		Recreation	4/6/1938	POSSUM KINGDOM LAKE	
5156	6	1		BRAZOS RIVER AUTHORITY	64712	Municipal	2/13/1964	LAKE GRANBURY	155000
5156	6	2		BRAZOS RIVER AUTHORITY		Industrial	2/13/1964	LAKE GRANBURY	
5156	6	3		BRAZOS RIVER AUTHORITY		Irrigation	2/13/1964	LAKE GRANBURY	
5156	6	4		BRAZOS RIVER AUTHORITY		Mining	2/13/1964	LAKE GRANBURY	
5156	6	5		BRAZOS RIVER AUTHORITY		Recreation	2/13/1964	LAKE GRANBURY	
5157	6	1		BRAZOS RIVER AUTHORITY	18336	Municipal	8/30/1982	LAKE WHITNEY	50000
5157	6	2		BRAZOS RIVER AUTHORITY		Industrial	8/30/1982	LAKE WHITNEY	
5157	6	7		BRAZOS RIVER AUTHORITY		Recreation	8/30/1982	LAKE WHITNEY	
5158	6	1		BRAZOS RIVER AUTHORITY	13896	Municipal	10/25/1976	LAKE AQUILLA	52400
5158	6	2		BRAZOS RIVER AUTHORITY		Industrial	10/25/1976	LAKE AQUILLA	
5158	6	3		BRAZOS RIVER AUTHORITY		Mining	10/25/1976	LAKE AQUILLA	
5158	6	4		BRAZOS RIVER AUTHORITY		Recreation	10/25/1976	LAKE AQUILLA	
5159	6	1		BRAZOS RIVER AUTHORITY	19658	Municipal	12/16/1963	LAKE PROCTOR	59400
5159	6	2		BRAZOS RIVER AUTHORITY		Industrial	12/16/1963	LAKE PROCTOR	
5159	6	3		BRAZOS RIVER AUTHORITY		Irrigation	12/16/1963	LAKE PROCTOR	
5159	6	4		BRAZOS RIVER AUTHORITY		Mining	12/16/1963	LAKE PROCTOR	
5159	6	5		BRAZOS RIVER AUTHORITY		Recreation	12/16/1963	LAKE PROCTOR	
5160	1	1	5160	CAMP COOLEY LTD		Domestic/Livestock	10/2/1987	ARTESIAN & WOLF LAKES DAMS	923.2
5160	1	2	5160	CAMP COOLEY LTD	456	Irrigation	7/27/1999	ARTESIAN & WOLF LAKES DAMS	
5160	1	3	5160	CAMP COOLEY LTD	480	Storage	7/27/1999	ARTESIAN & WOLF LAKES DAMS	480
5160	6	1		BRAZOS RIVER AUTHORITY	100257	Municipal	12/16/1963	LAKE BELTON	457600
5160	6	2		BRAZOS RIVER AUTHORITY		Industrial	12/16/1963	LAKE BELTON	
5160	6	3		BRAZOS RIVER AUTHORITY		Irrigation	12/16/1963	LAKE BELTON	
5160	6	4		BRAZOS RIVER AUTHORITY		Mining	12/16/1963	LAKE BELTON	
5160	6	5		BRAZOS RIVER AUTHORITY		Recreation	12/16/1963	LAKE BELTON	
5161	1	1	5161	WILLIAM D CARROLL ET UX	54	Irrigation	11/13/1987		
5161	6	1		BRAZOS RIVER AUTHORITY	67768	Municipal	12/16/1963	LAKE STILLHOUSE HOLLOW	235700
5161	6	2		BRAZOS RIVER AUTHORITY		Industrial	12/16/1963	LAKE STILLHOUSE HOLLOW	

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
5161	6	3		BRAZOS RIVER AUTHORITY		Irrigation	12/16/1963	LAKE STILLHOUSE HOLLOW	
5161	6	4		BRAZOS RIVER AUTHORITY		Mining	12/16/1963	LAKE STILLHOUSE HOLLOW	
5161	6	5		BRAZOS RIVER AUTHORITY		Recreation	12/16/1963	LAKE STILLHOUSE HOLLOW	
5162	1	1	5162	CITY OF ASPERMONT	8	Irrigation	11/12/1987		1196
5162	6	1		BRAZOS RIVER AUTHORITY	13610	Municipal	2/12/1968	LAKE GEORGETOWN	37100
5162	6	2		BRAZOS RIVER AUTHORITY		Industrial	2/12/1968	LAKE GEORGETOWN	
5162	6	3		BRAZOS RIVER AUTHORITY		Irrigation	2/12/1968	LAKE GEORGETOWN	
5162	6	4		BRAZOS RIVER AUTHORITY		Mining	2/12/1968	LAKE GEORGETOWN	
5162	6	5		BRAZOS RIVER AUTHORITY		Recreation	2/12/1968	LAKE GEORGETOWN	
5163	6	1		BRAZOS RIVER AUTHORITY	19840	Municipal	2/12/1968	LAKE GRANGER	65500
5163	6	2		BRAZOS RIVER AUTHORITY		Industrial	2/12/1968	LAKE GRANGER	
5163	6	3		BRAZOS RIVER AUTHORITY		Irrigation	2/12/1968	LAKE GRANGER	
5163	6	4		BRAZOS RIVER AUTHORITY		Mining	2/12/1968	LAKE GRANGER	
5163	6	5		BRAZOS RIVER AUTHORITY		Recreation	2/12/1968	LAKE GRANGER	
5164	6	1		BRAZOS RIVER AUTHORITY	48000	Municipal	12/16/1963	LAKE SOMERVILLE	160110
5164	6	2		BRAZOS RIVER AUTHORITY		Industrial	12/16/1963	LAKE SOMERVILLE	
5164	6	3		BRAZOS RIVER AUTHORITY		Irrigation	12/16/1963	LAKE SOMERVILLE	
5164	6	4		BRAZOS RIVER AUTHORITY		Mining	12/16/1963	LAKE SOMERVILLE	
5164	6	5		BRAZOS RIVER AUTHORITY		Recreation	12/16/1963	LAKE SOMERVILLE	
5165	6	1		BRAZOS RIVER AUTHORITY	65074	Municipal	5/6/1974	LAKE LIMESTONE	225400
5165	6	2		BRAZOS RIVER AUTHORITY		Industrial	5/6/1974	LAKE LIMESTONE	
5165	6	3		BRAZOS RIVER AUTHORITY		Irrigation	5/6/1974	LAKE LIMESTONE	
5165	6	4		BRAZOS RIVER AUTHORITY		Mining	5/6/1974	LAKE LIMESTONE	
5165	6	5		BRAZOS RIVER AUTHORITY		Recreation	5/6/1974	LAKE LIMESTONE	
5188	1	1	5188	CITY OF TAYLOR		Recreation	7/20/1988		11.62
5226	1	1	5226	CITY OF TEMPLE		Recreation	3/28/1989		
5227	1	1	5227	FIVE WELLS RANCH COMPANY		Domestic/Livestock	3/30/1989		295
5255	1	1	5255	GLORIA JEAN DUKES	75	Irrigation	8/28/1989		
5268	6	1		CITY OF BRYAN	55708	Industrial	5/30/1972		15227
5268	6	2		CITY OF BRYAN		Recreation	5/30/1972		
5269	6	1		THE TRAVELERS INSURANCE CO	37.82	Irrigation	1/30/1978		
5269	6	2		R O LAWRENCE III ET UX	716.73	Irrigation	1/30/1978		
5269	6	3		WILLARD H ZUMWALT JR ET UX	180.45	Irrigation	1/30/1978		
5270	6	1		LEISURE LAKE INC		Recreation	6/1/1976		
5271	6	1		TEXAS A&M UNIVERSITY	1200	Irrigation	5/11/1954		64
5271	6	2		TEXAS A&M UNIVERSITY	420	Industrial	9/21/1970		
5272	6	1		ALCOA INC	14000	Industrial	12/12/1951	ALCOA LAKE	15650
5273	6	1		ROCKDALE COUNTRY CLUB	1	Irrigation	10/11/1977		2
5274	1	1	5274	J R GRIMSHAW ET UX	25	Irrigation	12/13/1989		
5274	6	1		JOHN MEKOLIK & WIFE	18	Irrigation	9/23/1974		
5275	6	1		LUDWIG M KIPP & WIFE	58	Irrigation	7/28/1969		
5276	6	1		GEORGE W SPRANKLE	2.25	Irrigation	6/26/1972		
5277	6	1		TOMMY BREDTHAUER ET AL	20	Irrigation	6/30/1959	RES 1, RES 2, RES 3	101
5278	6	1		K L NIXON		Recreation	11/16/1950		135.2
5279	6	1		BIRCH CREEK FOREST PROPERTIES		Recreation	12/2/1974	RES 1, RES 2, RES 3	15
5280	6	1		WALDO NIENSTEDT	20	Industrial	6/1/1981		4
5281	6	1		HARRY H BOWERS		Recreation	3/3/1980		60
5282	1	1	5282	CITATION 1994 INVEST LTD PART	235	Mining	2/2/1990		

TABLE G-1. Brazos River Basin Water Rights in Region G

Water Right Number	Type (6 = Certificate of Adjudication, 1 = Permit)	Sequence	Permit #	OwnerName	Annual Authorized Diversion (acft)	Use Type	Priority (yyyymmdd)	Reservoir Name	Reservoir Capacity (acft)
5282	6	1		RUSSELL F WIGGINS		Recreation	11/9/1981	EAST-WEST LAKE & LAKE NO 3	675
5283	6	1		BEAVER CREEK DEVELOPERS		Recreation	2/3/1975		113
5284	6	1		SEALY & ROBERT HUTCHINGS	30	Irrigation	1/9/1967	EXEMPT LAKE	
5285	6	1		WILLIAM J TERRELL ET AL	752	Irrigation	12/20/1982		
5286	6	1		JOYCE ANN FREDE	463.973	Irrigation	12/31/1956		
5286	6	2		JOYCE ANN FREDE	403.455	Irrigation	12/31/1956		
5286	6	3		WILLIE BALDOBINO ET UX	53.527	Irrigation	12/31/1956		
5286	6	4		WILLIE BALDOBINO ET UX	46.545	Irrigation	12/31/1956		
5287	6	1		BISTONE MUNICIPAL WSD	2887	Municipal	4/15/1957	LAKE MEXIA	9600
5287	6	2		BISTONE MUNICIPAL WSD	65	Industrial	4/15/1957		
5288	6	1		TEXAS PARKS & WILDLIFE DEPT	6	Irrigation	1/18/1939	FORT PARKER LAKE	3100
5288	6	2		TEXAS PARKS & WILDLIFE DEPT		Recreation	1/18/1939	FORT PARKER LAKE	
5289	6	1		CITY OF GROESBECK	2500	Municipal	6/13/1921		150
5290	1	1	5290	TEXAS DEPT OF CRIMINAL JUSTICE	250	Irrigation	4/3/1990		30
5290	1	2	5290	TEXAS DEPT OF CRIMINAL JUSTICE	598	Irrigation	4/3/1990		277
5290	6	1		ERNI LUNA ET AL	8	Irrigation	12/4/1972		
5294	6	1		D G BROWN		Recreation	12/31/1954	BROWNS LAKE	186.8
5295	1	1	5295	JAY D & DEBORAH MILLS	200	Irrigation	5/11/1990	RESERVOIR 1	175
5295	6	1		J G KENNEDY		Recreation	3/29/1976	KENNEDY LAKE	285
5297	6	1		CAMP COOLEY LTD		Recreation	4/3/1972	ANTELOPE LAKE	420
5298	6	1		TXU ELECTRIC CO	1378000	Industrial	7/1/1974	TWIN OAK RESERVOIR	30319
5300	6	1		DAVID PATE ET UX		Recreation	4/11/1955	KURY LAKE	290
5301	6	1		CAMP CREEK WATER CO		Recreation	6/14/1948	CAMP CREEK LAKE	8400
5305	6	1		JOHN E SMITH		Recreation	1/17/1977	OAKLAND LAKE	272
5306	6	1		SELECTED LANDS LTD NO 18		Recreation	4/28/1975	K RANCH LAKE	216
5307	6	1		TEXAS MUNICIPAL POWER AGENCY	6000	Industrial	12/15/1980	NAVASOTA RIVER INTAKE	17
5308	6	1		BRIARCREST COUNTRY CLUB INC	12	Irrigation	9/27/1976		12
5308	6	2		BRIARCREST COUNTRY CLUB INC		Recreation	9/27/1976		
5309	6	1		CITY OF BRYAN		Recreation	1/6/1975	COUNTRY CLUB LAKE	73
5310	6	1		CARTER LAKE HOME OWNERS CORP		Recreation	1/6/1969	CARTER LAKE	481
5311	6	1		TEXAS MUNICIPAL POWER AGENCY	9740	Industrial	2/22/1977	GIBBONS CREEK RES	32084
5312	6	1		TEXAS MUNICIPAL POWER AGENCY	200	Mining	5/24/1982	LAKE CARLOS	91.9
5312	6	2		TEXAS MUNICIPAL POWER AGENCY		Industrial	5/24/1982	LAKE CARLOS	
5312	6	3		TEXAS MUNICIPAL POWER AGENCY		Recreation	5/24/1982	LAKE CARLOS	
5312	6	4		TEXAS MUNICIPAL POWER AGENCY		Other	5/24/1982	LAKE CARLOS	
5312	6	5		TEXAS MUNICIPAL POWER AGENCY		Domestic/Livestock	5/24/1982	LAKE CARLOS	
5313	6	1		TEXAS MUNICIPAL POWER AGENCY		Recreation	8/9/1971	WALTRIP LAKE	519
5314	6	1		WOODLAKE PRESERVATION ASSOCIATION		Recreation	10/21/1974	FRIERSON LAKE	230
5315	6	1		NAVASOTA FISHING CLUB INC		Recreation	2/14/1972		
5316	6	1		CHAPPELL HILLS INC		Recreation	4/7/1980	RES 1, 2, 3, 4, 5	56
5326	1	1	5326	WALNUT CREEK MINING COMPANY		Industrial	10/24/1990	STRUCTURES SPC-4 & SPC-18	49.8
5329	1	1	5329	PEBBLE CREEK COUNTRY CLUB INC	325	Irrigation	11/16/1990		16
5329	1	2	5329	PEBBLE CREEK COUNTRY CLUB INC		Recreation	11/16/1990		16
5330	1	1	5330	CITY OF TEMPLE	187	Irrigation	11/19/1990	LAKE JIM THORNTON & MARVIN FI	210.5
5330	1	2	5330	CITY OF TEMPLE		Recreation	11/19/1990		
5345	1	1	5345	TAC REALTY INC		Recreation	2/8/1991		14.3
5346	1	1	5346	SPECIAL CAMPS FOR SPECIAL KIDS		Recreation	3/8/1991		90
5349	1	1	5349	BRAZOS FARM LTD	780	Irrigation	2/28/1991		

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5354	1	1	5354	TEXAS MUNICIPAL POWER AGENCY	200	Industrial	4/1/1991	SP-13 & SP-20	191.4
5357	1	1	5357	COLLEGE STATION, CITY OF		Recreation	4/11/1991	WOLF PEN CR	13.35
5367	6	1		CAMP COOLEY LTD		Recreation	2/25/1974		1298
5385	1	1	5385	NANTUCKET LTD		Recreation	9/19/1991		
5416	1	1	5416	JAMES DONALD CHESTER	10	Irrigation	4/15/1992		13
5419	6	1		DELBERT L GERSCH	11	Irrigation	7/31/1965		
5422	1	1	5422	ARKEMA INC	119	Other	6/10/1992		
5430	6	1		DORMAN SELL FARM INC	20	Irrigation	6/28/1971	1 RESERVOIR	275
5431	6	1		KERMIT BLUME	15	Irrigation	7/31/1958	1 RESERVOIR	159
5435	1	1	5435	PLAINS PETROLEUM OPERATING CO	235	Mining	11/5/1992		
5447	1	1	5447	PALO PINTO MWD 1	1153	Recreation	2/3/1993		1153
5458	1	1	5458	TEXAS MUNICIPAL POWER AGENCY	100	Industrial	4/5/1993	POND SP-50	253
5470	6	1		CLIFFORD A SKILES JR ET UX	514	Irrigation	11/22/1917		
5473	1	1	5473	TEXAS MUNICIPAL POWER AGENCY	10	Industrial	11/19/1993	POND SP-64	5.7
5482	1	1	5482	WALNUT CREEK MINING COMPANY		Other	6/29/1994	POND SPC-22	7.6
5533	1	1	5533	DEL WEBB TEXAS LP	26.1	Irrigation	7/11/1995	RES 1, RES 2, RES 3	45.4
5540	1	1	5540	ALCOA INC		Domestic/Livestock	10/9/1995	NORTH END LAKE	356.1
5540	1	2	5540	ALCOA INC		Other	10/9/1995	E-AREA END LAKE	7173.3
5551	1	1	5551	CITY OF CLIFTON	2004	Municipal	4/3/1996		2000
5566	1	1	5566	STEWART & MARY THOMPSON &TRUST	250	Irrigation	1/15/1997		7
5570	1	1	5570	DAVID MOODY TRUSTEE ET AL	365	Irrigation	1/17/1997		
5594	1	1	5594	BRADLEY B WARE	130	Irrigation	7/1/1997		
5603	1	1	5603	WILLIAM GAVRANOVIC JR	3500	Irrigation	10/10/1997		
5603	1	2	5603	WILLIAM GAVRANOVIC JR	850	Irrigation	10/10/1997		
5616	1	1	5616	PROTESTANT EPISCOPAL CHURCH COUNCIL TX		Recreation	9/30/1998		730.3
5619	1	1	5619	CITY OF STEPHENVILLE		Recreation	11/30/1998		2
5619	1	2	5619	CITY OF STEPHENVILLE		Recreation	11/30/1998		2
5628	1	1	5628	BLUEGREEN SOUTHWEST		Recreation	5/5/1999	RES NO 2, NORTH SITE RESERVOI	1773
5628	1	2	5628	BLUEGREEN SOUTHWEST		Recreation	5/5/1999	RES NO 1, SOUTH SITE RESERVOI	538
5658	1	1	5658	UNITED STATES ARMY CORPS OF ENGINEERS		Other	10/18/1999	MALLOW POND	10
5658	1	2	5658	UNITED STATES ARMY CORPS OF ENGINEERS		Other	10/18/1999	CEDAR ELM POND	30
5658	1	3	5658	UNITED STATES ARMY CORPS OF ENGINEERS		Other	10/18/1999	D'S POND	40
5658	1	4	5658	UNITED STATES ARMY CORPS OF ENGINEERS		Other	10/18/1999	FLIPPAN POND	30
5658	1	5	5658	UNITED STATES ARMY CORPS OF ENGINEERS		Other	10/18/1999	KITE POND	38
5658	1	6	5658	UNITED STATES ARMY CORPS OF ENGINEERS		Other	10/18/1999	ZGABAY POND	60
5658	1	7	5658	UNITED STATES ARMY CORPS OF ENGINEERS	1000	Other	10/18/1999	FLAG POND	900
5667	1	1	5667	NNP-TERAVISTA LP		Recreation	12/13/1999	12 ON-CHANNEL RESERVOIRS	90.64
5677	1	2	5677	LOWER COLORADO RIVER AUTHORITY		Municipal	2/2/2000		
5680	1	1	5680	RONNIE P STEPHENS ET UX		Irrigation	3/3/2000		3.3
5689	1	1	5689	LEE J FAZZINO ET UX	492	Irrigation	6/23/2000		
5690	1	1	5690	LEE J FAZZINO ET UX	414	Irrigation	6/23/2000		
5691	1	1	5691	LEE J FAZZINO ET UX	200	Irrigation	6/23/2000		
5692	1	1	5692	ZEBRA INVESTMENTS INC	67	Mining	7/19/2000		
5715	1	1	5715	LOWER COLORADO RIVER AUTHORITY	882	Municipal	10/30/2000	LOMETA RESERVOIR	
5715	1	2	5715	LOWER COLORADO RIVER AUTHORITY		Storage	10/30/2000	LOMETA RESERVOIR	554.6
5729	1	1	5729	MICHAEL HORTON ET UX	60	Irrigation	2/7/2001		
5729	1	2	5729	MICHAEL HORTON ET UX		Domestic/Livestock	2/7/2001		48
5730	1	1	5730	BRAZOS RIVER AUTHORITY	25000	Municipal	3/7/1938	LAKES TRAVIS & BUCHANAN	

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5730	1	2	5730	BRAZOS RIVER AUTHORITY		Industrial	3/7/1938	LAKES TRAVIS & BUCHANAN	
5730	1	3	5730	BRAZOS RIVER AUTHORITY		Irrigation	3/7/1938	LAKES TRAVIS & BUCHANAN	
5738	1	1	5738	TEXAS MUNICIPAL POWER AGENCY ET AL		Recreation	2/5/2001	POND B1P-5	207.95
5741	1	1	5741	TEXAS MUNICIPAL POWER AGENCY		Recreation	5/24/2001	POND A1P-1	631.2
5741	1	2	5741	TEXAS MUNICIPAL POWER AGENCY		Recreation	5/24/2001	POND B1P-6	571.3
5744	1	1	5744	SOMERVELL COUNTY WATER DISTRICT	5000	Municipal	6/27/2001	PALUXY RIVER RESERVOIR	35.2
5744	1	2	5744	SOMERVELL COUNTY WATER DISTRICT		Industrial	6/27/2001	PALUXY RIVER RESERVOIR	
5744	1	3	5744	SOMERVELL COUNTY WATER DISTRICT		Irrigation	6/27/2001	PALUXY RIVER RESERVOIR	
5744	1	4	5744	SOMERVELL COUNTY WATER DISTRICT		Recreation	6/27/2001	PALUXY RIVER RESERVOIR	
5744	1	5	5744	SOMERVELL COUNTY WATER DISTRICT		Municipal	6/27/2001	WHEELER BRANCH RESERVOIR	4118
5744	1	6	5744	SOMERVELL COUNTY WATER DISTRICT		Industrial	6/27/2001	WHEELER BRANCH RESERVOIR	
5744	1	7	5744	SOMERVELL COUNTY WATER DISTRICT		Irrigation	6/27/2001	WHEELER BRANCH RESERVOIR	
5744	1	8	5744	SOMERVELL COUNTY WATER DISTRICT		Recreation	6/27/2001	WHEELER BRANCH RESERVOIR	
5748	1	1	5748	CITY OF NAVASOTA	430	Irrigation	2/28/2003		0.2521
5752	1	1	5752	WILLIAM GAVRANOVIC ET UX	1200	Irrigation	10/18/2001		
5752	1	2	5752	WILLIAM GAVRANOVIC ET UX		Irrigation	10/18/2001		
5752	1	3	5752	WILLIAM GAVRANOVIC ET UX		Irrigation	10/18/2001		
5752	1	4	5752	WILLIAM GAVRANOVIC ET UX		Irrigation	10/18/2001	OFF-CHANNEL RES	367.26
5752	1	5	5752	WILLIAM GAVRANOVIC ET UX	1260	Irrigation	10/18/2001		
5753	1	1	5753	BAR W RANCH	100	Irrigation	10/15/2001		83.5
5755	1	1	5755	RIVER PLACE PROPERTY OWNERS ASSN INC		Recreation	12/4/2001		132.65
5770	1	1	5770	TXU MINING COMPANY LP	685	Mining	4/3/2002		
5770	1	2	5770	TXU MINING COMPANY LP		Mining	4/3/2002		
5770	1	3	5770	TXU MINING COMPANY LP		Mining	4/3/2002		
5770	1	4	5770	TXU MINING COMPANY LP		Mining	4/3/2002		
5771	1	1	5771	BUHARI INC	2	Irrigation	4/12/2002		20.8
5771	1	2	5771	BURL G HARRIS	18	Irrigation	4/12/2002		
5788	1	1	5788	SMILING MALLARD DEVELOPMENT LTD		Recreation	9/30/2002	LAKE ARAPAHO	436
5791	1	1	5791	EDWARD D JOHNSON ET UX	40	Irrigation	11/14/2002	RES 1 AND RES 2	89.3
5802	1	1	5802	CITY OF ALBANY	50	Irrigation	4/10/2003		5
5802	1	2	5802	CITY OF ALBANY		Recreation	4/10/2003		
5803	1	1	5803	ALCOA INC	650	Industrial	7/24/2003	POND 026	936
5803	1	2	5803	ALCOA INC		Irrigation	7/24/2003	C AREA RESERVOIR	13492
5803	1	3	5803	ALCOA INC		Mining	7/24/2003		
5803	1	4	5803	ALCOA INC		Domestic/Livestock	7/24/2003		
5816	1	1	5816	ALCOA INC	650	Industrial	10/23/2003	RESERVOIR F	506
5816	1	2	5816	ALCOA INC		Irrigation	10/23/2003	RESERVOIR FG-1	462
5816	1	3	5816	ALCOA INC		Mining	10/23/2003	RESERVOIR FG-2	1669
5816	1	4	5816	ALCOA INC		Domestic/Livestock	10/23/2003	RESERVOIR G	1743
5858	1	1	5858	TEXAS MUNICIPAL POWER AGENCY		Recreation	10/21/2004	26 ON-CHANNEL RESERVOIRS	3515.4
5858	1	2	5858	TEXAS MUNICIPAL POWER AGENCY		Other	10/21/2004	26 ON-CHANNEL RESERVOIRS	
5882	1	1	5882	KIMBERLIN PK TRST/CHARLOTTE J PARKS TRST		Recreation	4/18/2005		1282
5882	1	2	5882	KIMBERLIN PK TRST/CHARLOTTE J PARKS TRST		Other	4/18/2005		
5882	1	3	5882	KIMBERLIN PK TRST/CHARLOTTE J PARKS TRST		Domestic/Livestock	4/18/2005		
5899	1	1	5899	CITY OF MERIDIAN	1336	Municipal	9/8/2005		
12023	1	1	12023	KIM R SMITH LOGGING INC		Domestic/Livestock	7/20/2006		
12023	1	2	12023	KIM R SMITH LOGGING INC		Recreation	7/20/2006		

TABLE G-2. Summary of Surface Water Availability

Owner	Water_Right	Authorized Permitted Diversion	2020 Minimum Annual Diversion / Supply Reliability	2070 Minimum Annual Diversion / Supply Reliability	County	Use
"A. B. COPELAND, JR."	C2201_1	197	0	0	Erath	Irrigation
JACK BERRY	C2205_1	150	0	0	Erath	Irrigation
H. W. NORTHCUTT	C2206_1	60	0	0	Erath	Irrigation
"ELVIS RAY STONE SR, ET AL"	C2207_1	23	0	0	Erath	Irrigation
B R FANNING	C2208_1	40	0	0	Erath	Irrigation
JOHN MOCEK ET UX	C2208_2	20	0	0	McLennan	Irrigation
H. B. LANE	C2209_1	3	0	0	Erath	Irrigation
RAYMOND L. JARRATT	C2210_1	92	0	0	Erath	Irrigation
J. T. HICKS	C2211_1	85	0	0	Erath	Irrigation
GREAT SOUTHERN RANCH INC	C2215_1	54	0	0	Erath	Irrigation
CRAIG W. RAY	C2216_1	54	0	0	Erath	Irrigation
"JAMES F JOHNSON, ET UX"	C2219_1	13	0	0	Erath	Irrigation
HAROLD PACK	C2220_1	12	0	0	Erath	Irrigation
KENNETH & BETTY YVON LESLEY	C2221_1	18	0	0	Erath	Irrigation
HARM & ZWAANTINA TE VELDE TRST	C2222_1	110	0	0	Erath	Irrigation
TY MURRAY	C2225_1	34	0	0	Erath	Irrigation
T T FAIR ET UX	C2226_1	61	0	0	Erath	Irrigation
CHARLIE S EVERETT & WIFE	C2227_1	60	0	0	Erath	Irrigation
SWAN E RICHARDSON JR	C2228_1	60	0	0	Erath	Irrigation
J B MCCONNELL	C2229_1	44	0	0	Erath	Irrigation
TY MURRAY	C2230_1	76	0	0	Erath	Irrigation
ESTATE OF C C WINTERS	C2231_1	42	0	0	Erath	Irrigation
CHARLES A & ROBERT S ELLIOTT	C2232_1	16	0	0	Erath	Irrigation
J W OGLE ET AL	C2233_1	18	0	0	Erath	Irrigation
BRUCE E TODD	C2234_1	125	0	0	Erath	Irrigation
7 M RANCH TRUST	C2235_1	8	0	0	Erath	Irrigation
BRUCE E TODD	C2236_1	24	0	0	Erath	Irrigation
MAX L GORDON & ELOISE GORDON	C2237_1	90	0	0	Erath	Irrigation
JON DAVID MAYFIELD TRUST	C2238_1	130	0	0	Erath	Irrigation
A. H. LINNE	C2239_1	32	0	0	Erath	Irrigation
A DWAIN MAYFIELD ET AL	C2240_1	137	0	0	Erath	Irrigation
"WAYNE PITTMAN, ET AL"	C2241_1	33	0	0	Erath	Irrigation
MRS W K RICHARDSON	C2242_1	40	0	0	Erath	Irrigation
BEN E. ROBBINS	C2243_1	90	0	0	Erath	Irrigation
DONALD MCLEAN	C2244_1	27	0	0	Erath	Irrigation
DORIS S HEIZER	C2245_1	20	0	0	Erath	Irrigation
DON MITCHELL ET AL	C2246_1	152	0	0	Erath	Irrigation
BAR-TO-LO CORPORATION	C2247_1	35	0	0	Erath	Irrigation
ALWINA LUINE HEIZER HANCOCK	C2248_1	62	0	0	Erath	Irrigation
THOMAS H. & DOLORES C. BENSON	C2249_1	19	0	0	Erath	Irrigation
OTEY SHADDEN	C2250_1	4	0	0	Erath	Irrigation
WANDA TRIMBLE	C2251_1	28	0	0	Erath	Irrigation
J B PUTTY TRUSTEE	C2252_1	30	0	0	Erath	Irrigation
W E PUTTY	C2254_1	65	0	0	Hamilton	Irrigation
WAYNE V DUNCAN ET UX	C2255_1	47.7	0	0	Erath	Irrigation
ROBERT L BOYKIN ET AL	C2255_2	26.8	0	0	Erath	Irrigation
GARY W DUNCAN ET AL	C2255_3	84.5	0	0	Erath	Irrigation
RANDOLPH M ROTEN	C2258_1	32	0	0	Hamilton	Irrigation
F MELVIN JOHNSON	C2259_1	112	0	0	Hamilton	Irrigation
F. MELVIN & HELENE JOHNSON	C2260_1	56	0	0	Hamilton	Irrigation
CECIL PARKS	C2261_1	8	0	0	Hamilton	Irrigation
VERNON CLARK BEAIRD	C2262_1	30	0	0	Hamilton	Irrigation
WILLIAM VAN ZANDT SLOAN & WIFE	C2263_1	65	0	0	Hamilton	Irrigation
WILLIAM VAN ZANDT SLOAN & WIFE	C2264_1	45	0	0	Hamilton	Irrigation
DEREL FILLINGIM	C2265_1	268	0	0	Hamilton	Irrigation
KARL T BUTZ JR	C2266_1	18	0	0	Bosque	Irrigation
RONNIE W PARTAIN	C2267_1	0.3	0	0	Erath	Irrigation
MARGO JOY PARTAIN BATTERSHELL	C2267_2	0.7	0	0	Erath	Irrigation
"BARRY L. POLK, ET UX"	C2268_1	11	0	0	Erath	Irrigation
MICHAEL J LOTT ET UX	C2269_1	4	0	0	Bosque	Irrigation
J. N. BURNS	C2270_1	24	0	0	Bosque	Irrigation
ALBERT N PIKE & EUGENIA PIKE GOODM	C2271_1	15	0	0	Bosque	Irrigation
DAVID H. MONNICH	C2272_1	42	0	0	Bosque	Irrigation
W.F.LONG	C2273_1	98	0	0	Somervell	Irrigation
W.F.LONG	C2273_2	6.86	0	0	Somervell	Irrigation
LOUIS A BEECHERL JR	C2276_1	81	81	81	Bosque	Irrigation
LOUIS A BEECHERL JR	C2276_4	155	0	0	Bosque	Irrigation

TABLE G-2. Summary of Surface Water Availability

LOUIS A BEECHERL JR	C2276_5	95.5	0	0	Bosque	Irrigation
LOUIS A BEECHERL JR	C2276_6	0.34	1	0	Bosque	Irrigation
LOUIS A BEECHERL JR	C2276_8	90	0	0	Bosque	Irrigation
"THOMAS G PETERS, ET UX"	C2277_1	10	0	0	Bosque	Irrigation
WILLIAM E. GIPSON	C2278_1	114	0	0	Bosque	Irrigation
LOUISE P L HAMPE ET AL	C2279_1	9	0	0	Bosque	Irrigation
JOHN DAVID BELL ET UX	C2280_1	69	0	0	Bosque	Irrigation
RAY J MILLER	C2281_1	7	0	0	Bosque	Irrigation
LESTER M ALBERTHAL JR	C2282_1	253	0	0	Bosque	Irrigation
MARGARET D WHITE	C2283_1	8	0	0	Bosque	Irrigation
L C AND ISABELLE C HOWARD	C2284_1	25	0	0	Bosque	Irrigation
LEONARD C RADDE	C2285_1	35	0	0	Bosque	Irrigation
BILLY G AND IRIS S HODGES	C2287_1	7	0	0	Hamilton	Irrigation
SHANNON LAIRD HODGES ET AL	C2288_1	3.5	0	0	Hamilton	Irrigation
J. L. JENSON	C2290_1	16.1	0	0	Bosque	Irrigation
JAMES CROSLEY ET UX	C2290_2	28.9	0	0	Bosque	Irrigation
CITY OF CLIFTON	C2291_1	7	0	0	Bosque	Irrigation
CLIFTON	C2291_2	600	0	0	Bosque	Municipal
W. O. GLOFF	C2292_1	261	0	0	Bosque	Irrigation
ESTHER K WIEDERAENDERS	C2293_1	7	7	7	Bosque	Irrigation
"R.D.,J.L.,&M.L. LUNDBERG"	C2294_1	80	0	0	Bosque	Irrigation
REGINALD & NALLIE LINDBERG	C2295_1	49	0	0	Bosque	Irrigation
CHARLES E. STEVENS	C2298_1	104	0	0	Hamilton	Irrigation
D. I. BULLION	C2299_1	22	0	0	Bosque	Irrigation
WILLIAM J. HIX ET AL	C2300_1	100	0	0	Bosque	Irrigation
ABIGAIL HALBERT KAMM	C2301_1	70	0	0	McLennan	Irrigation
STEVEN K CAPERTON ET UX	C2302_1	122	0	0	McLennan	Irrigation
"WALTER WARREN FAIR, ET UX"	C2303_1	30	0	0	McLennan	Irrigation
HUGH WHITFIELD DAVIS	C2304_1	3.1	0	0	McLennan	Irrigation
WALTER WARREN FAIR ET UX	C2304_2	43.9	0	0	McLennan	Irrigation
BERTRAND A TALBERT	C2305_1	40	0	0	McLennan	Irrigation
HARRY A. & ATHALIA P. BRITTON	C2306_1	5	5	5	McLennan	Irrigation
SAMUEL N. & TESSIE B. CARROLL	C2307_1	23	0	0	McLennan	Irrigation
IRA H WESTERFIELD	C2308_1	10	0	0	McLennan	Irrigation
JERRY AND JOY CLEMMONS	C2309_1	10	0	0	McLennan	Irrigation
JIM HERING	C2310_1	16	0	0	McLennan	Irrigation
ROBERT HALL	C2312_1	162	0	0	McLennan	Irrigation
IRA H. WESTERFIELD	C2313_1	14	0	0	McLennan	Irrigation
WACO	C2315_1	39100	39,100	39,100	McLennan	Municipal
WACO	C2315_2	19100	19,100	19,100	McLennan	Municipal
CITY OF WACO	C2315_3	900	900	900	McLennan	Irrigation
WACO	C2315_5	411.11	317	421	McLennan	Municipal
C. L. SLIGH FARMS	C2316_1	193	0	0	McLennan	Irrigation
CHARLOTTE B JOHNSON ET AL	C2317_1	248	87	0	McLennan	Irrigation
FRANK W SIPAN ET AL	C2318_1	35	0	0	McLennan	Irrigation
RUDOLPH CARL DROSCHE JR	C2813_1	153	0	0	Coryell	Irrigation
ESTATE OF WAYNE ADAMS; GRACE OLEN	C2814_1	83	0	0	Comanche	Irrigation
ESTATE OF WAYNE ADAMS; GRACE OLEN	C2814_2	170	0	0	Comanche	Irrigation
NANCY PAGE ALLEN ET VIR	C2815_1	69	0	0	Comanche	Irrigation
E W CANTRELL ET UX	C2816_1	36	0	0	Comanche	Irrigation
P D GUNTER	C2818_1	18	0	0	Comanche	Irrigation
J B GUNTER	C2819_1	32	0	0	Comanche	Irrigation
WILLIAM R & CAROLINE MILLER	C2820_1	46	0	0	Comanche	Irrigation
ERICH & META SEIDER	C2821_1	29	0	0	Comanche	Irrigation
JUANITA MARTHA ANDERS	C2822_1	106	0	0	Comanche	Irrigation
J E TATUM	C2823_1	22	0	0	Comanche	Irrigation
MAX DERDEN & CHARLES S THOMAS ET	C2824_1	90	0	0	Comanche	Irrigation
MONTE CARMICHAEL ET AL	C2825_1	80	0	0	Comanche	Irrigation
BURK DENMAN	C2826_1	46	0	0	Comanche	Irrigation
J A DENMAN	C2827_1	6	0	0	Comanche	Irrigation
J A DENMAN	C2828_1	24	0	0	Comanche	Irrigation
MARTIN L GEYE ET AL	C2829_1	56	0	0	Comanche	Irrigation
RICKIE STEPHENS	C2830_1	87	0	0	Comanche	Irrigation
DON GROMATZKY	C2830_2	30	0	0	Hamilton	Irrigation
GARY CROW	C2831_1	57	0	0	Comanche	Irrigation
ANN WEAVER ADAIR	C2832_1	47	0	0	Comanche	Irrigation
CHARLIE BRANDT SHOCKLEY	C2833_1	24	0	0	Comanche	Irrigation
WILLIE EYVONNE MANNING RAY	C2834_1	43	0	0	Comanche	Irrigation
HARTENSE NORTH	C2835_1	294	0	0	Hamilton	Irrigation
NELSON SHAVE	C2836_1	87	0	0	Comanche	Irrigation
WADE N CARAWAY	C2837_1	136.4	0	0	Hamilton	Irrigation
WADE N CARAWAY	C2837_2	47	0	0	Hamilton	Irrigation

TABLE G-2. Summary of Surface Water Availability

ED A ROSS ET AL	C2838_1	37	0	0	Hamilton	Irrigation
ED A ROSS ET AL	C2839_1	40	0	0	Hamilton	Irrigation
WALTER E & JOYCE SWINDLE	C2841_1	26.7	0	0	Erath	Irrigation
BILLY JACK & PATSY TYUS	C2842_1	4.3	0	0	Erath	Irrigation
DEBORAH VINES	C2843_1	29	0	0	Erath	Irrigation
BOBBY JOHN FOSTER	C2844_1	29	0	0	Erath	Irrigation
BOBBY JOHN FOSTER	C2845_1	27.5	0	0	Erath	Irrigation
GUY G HALL	C2846_1	27.5	0	0	Erath	Irrigation
GUY G HALL	C2846_2	10.5	0	0	Erath	Irrigation
G G HALL	C2847_1	13	0	0	Erath	Irrigation
M D STEPHEN	C2848_1	31.5	0	0	Erath	Irrigation
J & J DAIRY & BYRON JONES ET AL	C2849_1	31.5	0	0	Erath	Irrigation
J A HULSEY	C2850_1	29	0	0	Erath	Irrigation
J A HULSEY	C2850_2	11.27	0	0	Erath	Irrigation
J W BARBEE	C2851_1	72	0	0	Comanche	Irrigation
J W BARBEE	C2851_2	87	0	0	Comanche	Irrigation
DEAN H BOTTLINGER ET UX	C2852_1	149	0	0	Comanche	Irrigation
GAYLON D & CLARA JONES	C2853_1	52	0	0	Comanche	Irrigation
ERNEST L NEWSOM	C2854_1	44	0	0	Hamilton	Irrigation
LARRY WAYNE ADAMS	C2855_1	91	0	0	Hamilton	Irrigation
JACK D GRAHAM	C2856_1	1	0	0	Hamilton	Irrigation
J L ROBERSON JR ET AL	C2857_1	153	0	0	Hamilton	Irrigation
J L ROBERSON JR ET AL	C2858_1	18	0	0	Hamilton	Irrigation
LARRY A DUNN ET UX	C2859_1	98	0	0	Hamilton	Irrigation
EARL& ORENA KAVANAUGH & MAURINE K	C2860_1	15	0	0	Hamilton	Irrigation
ACY L WATSON	C2861_1	1	0	0	Hamilton	Irrigation
TOM J THOMPSON	C2862_1	15	0	0	Hamilton	Irrigation
RIVERSIDE ACQUISITIONS LLC	C2863_1	43	0	0	Hamilton	Irrigation
K A SPARKS ET AL	C2864_1	185	0	0	Hamilton	Irrigation
RIVERSIDE ACQUISITIONS LLC	C2865_1	169	0	0	Hamilton	Irrigation
RIVERSIDE ACQUISITIONS LLC	C2866_1	82	0	0	Hamilton	Irrigation
GERALDINE D WARREN ET AL	C2867_1	4	4	4	Hamilton	Irrigation
ARVORD M ABERNETHY	C2868_1	50	50	43	Hamilton	Irrigation
BETTY JEAN HARRIS TOOLEY	C2869_1	105	0	0	Hamilton	Irrigation
HAMILTON	C2870_1	614	0	0	Hamilton	Municipal
"SETH THOMAS MOORE, SR., ET AL"	C2871_1	72	0	0	Hamilton	Irrigation
SETH MOORE	C2872_1	2.5	0	0	Hamilton	Manufacturing
R F MANNING	C2873_1	20	0	0	Hamilton	Irrigation
HARRIET MEAD HAVENS	C2874_1	85	0	0	Hamilton	Irrigation
LEONARD T WARLICK ET UX	C2875_1	54	0	0	Hamilton	Irrigation
CHARLES CRAIG JR	C2876_1	15	0	0	Hamilton	Irrigation
THOMAS E MURDOCK ESTATE	C2877_1	150	0	0	Hamilton	Irrigation
O C & WILLIE NADINE MARSHALL	C2878_1	37	0	0	Hamilton	Irrigation
O C & WILLIE NADINE MARSHALL	C2878_2	18.65	0	0	Hamilton	Irrigation
PAUL F MCCLINTON	C2879_1	46	0	0	Hamilton	Irrigation
PAUL F MCCLINTON	C2879_2	93	0	0	Hamilton	Irrigation
BILLY R FISHER ET UX	C2880_1	19	0	0	Hamilton	Irrigation
MOODY E COURTNEY	C2881_1	124	0	0	Hamilton	Irrigation
JOHN C COURTNEY ET UX	C2882_1	196	0	0	Hamilton	Irrigation
DAVID C COURTNEY	C2883_1	5	0	0	Hamilton	Irrigation
JOHN C COURTNEY ET UX	C2884_1	200	0	0	Hamilton	Irrigation
MOODY E COURTNEY	C2885_1	71	0	0	Hamilton	Irrigation
W J ALEXANDER	C2886_1	10	0	0	Coryell	Irrigation
JOE TRUETT LIGHTSEY ET AL	C2887_1	30	0	0	Coryell	Irrigation
GEORGE T REYNOLDS III ET UX	C2888_1	2	0	0	Coryell	Irrigation
DON THOMAS ROGERS	C2890_1	8	0	0	Coryell	Irrigation
W F MORELAND BY PASS TRUST	C2891_1	57	0	0	Coryell	Irrigation
W N & MARY JANE WHISENHUNT	C2892_1	32	0	0	Coryell	Irrigation
SEABORN L ASHBY	C2893_1	10	0	0	Coryell	Irrigation
SAN PABLO CORPORATION	C2894_1	2	0	0	Coryell	Irrigation
WILLIAM TRAVIS LAXSON	C2895_1	29	0	0	Coryell	Irrigation
WILLIAM TRAVIS LAXSON	C2895_2	14.42	0	0	Coryell	Irrigation
MARGARET CALLAWAY	C2896_1	124	0	0	Coryell	Irrigation
R H MELTON	C2897_1	8	0	0	Coryell	Irrigation
DONALD J MACKIE ET UX& GLENNIS G EC	C2898_1	23	0	0	Coryell	Irrigation
CHARLES C POWELL	C2900_1	14	0	0	Coryell	Irrigation
JACK & MINNIE MORSE	C2901_1	100	0	0	Coryell	Irrigation
QUENTIN G MCCORKLE ET UX	C2902_1	18	0	0	Coryell	Irrigation
GLENROOK FARMS	C2903_1	530	530	530	Coryell	Irrigation
STERLIN J BARNARD	C2904_1	40	0	0	Coryell	Irrigation
DAN G DAVIDSON ESTATE	C2905_1	14	0	0	Coryell	Irrigation
THELMA R CARTER	C2906_1	36	0	0	Coryell	Irrigation

TABLE G-2. Summary of Surface Water Availability

LEO LUEDTKE ET UX	C2907_1	237	0	0	Coryell	Irrigation
DENNIS CHARLES LUEDTKE ET AL	C2907_2	150	0	0	Coryell	Irrigation
DAN G DAVIDSON	C2908_1	22	0	0	Coryell	Irrigation
RUDOLF DROSCHE	C2909_1	26	0	0	Coryell	Irrigation
CARL DROSCHE	C2910_1	77	0	0	Coryell	Irrigation
GLENN DIPPEL ET AL& JOHN SHAUD ET U	C2911_1	74	0	0	Coryell	Irrigation
PAT & MABEL RUTH GRIMES	C2914_1	18	0	0	Coryell	Irrigation
ROBERT L MOORE	C2915_1	38	0	0	Bell	Irrigation
W J & ANITA FAYE HOPPER	C2921_1	28	0	0	Hamilton	Irrigation
LEE R HOPPER	C2922_1	9	0	0	Hamilton	Irrigation
HENRY MARWITZ ET AL	C2923_1	12.5	0	0	Hamilton	Irrigation
BILLY H ROBERTS ET UX	C2923_2	32.5	0	0	Hamilton	Irrigation
JERRY W & BONNIE JEAN HOPPER	C2924_1	59	0	0	Hamilton	Irrigation
WILLIAM JACKSON WISDOM	C2926_1	13	0	0	Hamilton	Irrigation
ELVIN L GENTRY ET UX	C2927_1	9	0	0	Hamilton	Irrigation
GARY L LUNDBERG ET UX	C2928_1	13	0	0	Hamilton	Irrigation
REGINALD & NONA FA WIEDEBUSCH	C2929_1	4	0	0	Hamilton	Irrigation
CYRUS B CATHEY ESTATE	C2930_1	31	0	0	Hamilton	Irrigation
RONNAL S BEASLEY ET UX	C2931_1	52	0	0	Hamilton	Irrigation
JAMES BILLINGSLEY	C2932_1	6	0	0	Hamilton	Irrigation
MARSHALL JOE HANNA	C2933_1	46	0	0	Coryell	Irrigation
ROBERT M SCOTT ET AL	C2934_1	66	0	0	Coryell	Irrigation
JEAN ARMOR WHALEY	C2935_1	38	0	0	Coryell	Irrigation
JEAN ARMOR WHALEY	C2935_2	19	0	0	Coryell	Irrigation
FORT HOOD	C2936_1	10000	0	0	Bell	Municipal
FORT HOOD	C2936_2	2000	0	0	Bell	Municipal
VERNON & BETTY ANN BARGE	C2937_1	59	0	0	Bell	Irrigation
TEMPLE	C2938_1	9957	1,706	1,869	Bell	Municipal
TEMPLE	C2938_2	5847	0	0	Bell	Municipal
"EVELYN FRANCES BYLER, ET AL"	C2940_1	63	0	0	Bell	Irrigation
SHALLOW FORD CONSTRUCTION CO	C2941_1	36	0	0	Bell	Irrigation
PYLE BROTHERS INC&VAUGHN T BAIRD	C2942_1	200	200	200	Bell	Irrigation
CITY OF KILLEEN & Killeen Willows, Inc.	C2943_1	20	0	0	Bell	Irrigation
FRANKLIN LIMESTONE COMPANY	C2944_1	138	0	0	Bell	Mining
GLENN BAIRD	C2945_1	36	0	0	Bell	Irrigation
J BARRY SIEBENLIST ET UX	C2946_1	24	0	0	Bell	Irrigation
PETER GROTHAUS ET UX	C2947_1	11	0	0	Bell	Irrigation
"CHESTER E. DICKSON, ET UX"	C2948_1	278	0	0	Bell	Irrigation
"CHESTER E. DICKSON, ET UX"	C2949_1	37	0	0	Bell	Irrigation
DAVID R KRAUSS ET UX	C2950_1	25	0	0	Bell	Irrigation
ALFRED F NAGEL ET UX	C2951_1	35	0	0	Bell	Irrigation
CLOUD CONSTRUCTION CO INC	C2952_1	16	0	0	Bell	Irrigation
ROGER W HINDS ET UX	C2953_1	89	0	0	Bell	Irrigation
CHARLES N VERHEYDEN ET UX	C2953_2	75.3	0	0	Bell	Irrigation
DENNIS J LYNCH ET UX	C2953_3	69.7	0	0	Bell	Irrigation
HOMER MCCASLAND	C2954_1	285	0	0	MILL	D&L
MARTIN P SHELTON ET AL	C2955_1	150	0	0	MILL	Irrigation
HOWARD K MOORE	C2957_1	65	0	0	MILL	Irrigation
FOSSIL CREEK REALTY INC	C2958_1	2.63	0	0	Lampasas	Irrigation
SAMUEL G TOUB	C2958_2	7.25	0	0	Lampasas	Irrigation
W G BETTIS ET AL	C2958_3	0.12	0	0	Lampasas	Irrigation
JOHN R & LYNN COATS	C2959_1	23	0	0	Lampasas	Irrigation
ALBERT S & WINIFRED L BAKER	C2960_1	46	0	0	Lampasas	Irrigation
M K & RUTH NEAL PATTESON	C2961_1	54	0	0	Lampasas	Irrigation
"LEONARD J TROVERO, SR"	C2962_1	28	4	4	Lampasas	Irrigation
FRANCES VIRGINIA NUCKLES ET AL	C2963_1	48	0	0	Lampasas	Irrigation
EARL BROOKS	C2964_1	1	0	0	Lampasas	Irrigation
JIMMIE E BOULTINGHOUSE ET AL	C2965_1	34.3	0	0	Lampasas	Irrigation
ROY LEE BOULTINGHOUSE	C2965_2	18.8	0	0	Lampasas	Irrigation
MARVIN E & MARY BLANCHE WHITE	C2966_1	31	0	0	Lampasas	Irrigation
H Y JR & LOIS POLLARD PRICE	C2967_1	5	0	0	Lampasas	Irrigation
BURRELL ROITCH	C2969_1	8	0	0	Lampasas	Irrigation
FRED WILLIS ET UX	C2970_1	2.6	0	0	Lampasas	Irrigation
CHARLES E BLANTON	C2970_2	51.2	0	0	Lampasas	Irrigation
CITY OF LAMPASAS	C2970_3	6.2	0	0	Lampasas	Irrigation
LAMPASAS	C2971_1	3760	0	0	Lampasas	Municipal
CITY OF LAMPASAS	C2972_2	228	0	0	Lampasas	Irrigation
MELVIN POTTS	C2973_1	6	0	0	Lampasas	Irrigation
E C O'NEAL JR	C2974_1	144	6	6	Lampasas	Irrigation
RAY A & ELIZABETH K JONES	C2975_1	46	46	46	Lampasas	Irrigation
RAY A JONES	C2976_1	48	48	48	Lampasas	Manufacturing
CURTIS KIDD ET UX	C2977_1	42	42	42	Lampasas	Irrigation

TABLE G-2. Summary of Surface Water Availability

"GUNDERLAND PARK RANCH, INC"	C2978_1	54	0	0	Lampasas	Irrigation
JOHN T HIGGINS	C2979_1	95	0	0	Lampasas	Irrigation
ROBERT L GUYLER	C2980_1	1	0	0	Lampasas	Irrigation
DOROTHY N CAPPS	C2981_1	6.3	0	0	Lampasas	Irrigation
JOE D BOYD	C2981_2	45.4	0	0	Lampasas	Irrigation
WYLIE R CAPPS	C2981_3	6.3	0	0	Lampasas	Irrigation
A J DEWAYNE KENDRICK	C2982_1	6	0	0	Lampasas	Irrigation
RALPH D & ROBBIE BURROW	C2983_1	7	0	0	Lampasas	Irrigation
DOYLE & BARBARA J WALKER	C2984_1	18	0	0	Lampasas	Irrigation
R B & FRANCES M PORTER	C2985_1	18	0	0	Lampasas	Irrigation
JAMES BUFORD BRIGGS	C2986_1	46.8	0	0	Lampasas	Irrigation
ROBERT C HALLMARK ET AL	C2987_1	2	2	2	Lampasas	Irrigation
JOE T & CAROLINE PARKS	C2988_1	3	3	3	Lampasas	Irrigation
0	C2996_3	100	0	0	Bell	Irrigation
WINThrockmortonP ALDRICH ET UX	C2997_1	64	0	0	Bell	Irrigation
GRA'DELLE DUNCAN	C2998_1	157	155	157	Bell	Irrigation
LAVALLA R BLUM	C2999_1	3	0	0	Bell	Irrigation
JAMES L SHEPHERD	C3000_1	105	0	0	Bell	Irrigation
EDD MELTON	C3001_1	12	0	0	Bell	Irrigation
GENE & NELDA FAY RAY	C3002_1	150	0	0	Bell	Irrigation
BENNIE M GIBBS	C3003_1	32	0	0	Bell	Irrigation
ESTATE OF DR JAMIE W BARTON	C3004_1	50	0	0	Bell	Irrigation
VAIL E & BETTY LOGSDON	C3005_1	5	0	0	Bell	Irrigation
KARL B WAGNER ESTATE	C3006_1	48	0	0	Bell	Irrigation
RIVER FARM LTD	C3007_1	48	0	0	Bell	Irrigation
RIVER FARM LTD	C3007_2	192	0	0	Bell	Irrigation
ELEANOR B TUTTLE	C3008_1	61	0	0	Bell	Irrigation
JOSEPH LEWIS ET UX	C3009_1	81	0	0	Bell	Irrigation
CLIFFORD D JONES	C3010_1	10	0	0	Bell	Irrigation
W J RAY ET UX	C3011_1	16.6	0	0	Bell	Irrigation
LAWANA ELLIS ET VIR	C3011_2	47	0	0	Bell	Irrigation
MIKEL DUPES ET AL	C3011_3	0.5	0	0	Bell	Irrigation
MILL CREEK GOLF & COUNTRY CLUB	C3013_1	168	0	0	Bell	Irrigation
EDWIN A BAILEY ESTATE	C3014_1	63	0	0	Bell	Irrigation
PAUL T BOSTON	C3015_1	36	0	0	Bell	Irrigation
SAMUEL E CLONTS, ET AL	C3413_1	182	0	0	Knox	Irrigation
Knox COUNTY-OTHER	C3414_1	34	34	34	Knox	Municipal
LEAGUE RANCH	C3440_1	2000	0	0	Knox	Irrigation
LEAGUE RANCH	C3440_2	31	31	31	Knox	Irrigation
J J KEETER TRUST & CLYDE STUTEVILLE	C3446_1	9	8	8	Throckmor	Irrigation
R T WELLS JR	C3447_1	45	0	0	Young	Irrigation
GEORGE W WILKINSON	C3448_1	45	0	0	Young	Irrigation
ThrockmortonCKMORTON	C3450_1	600	0	0	Throckmor	Municipal
GEORGE W WILKINSON	C3451_1	26	0	0	Young	Irrigation
GEORGE W WILKINSON	C3451_2	27	0	0	Young	Manufacturing
NEWCASTLE	C3452_1	250	0	0	Young	Municipal
PITCOCK BROTHERS READY-MIX	C3453_1	100	0	0	Young	Mining
ROBERT O ANDREWS FAMILY TRUST	C3454_1	64	0	0	Young	Irrigation
CHARLES D CROW & WANDA L CROW	C3455_1	76	0	0	Young	Manufacturing
CHARLES D CROW & WANDA L CROW	C3455_2	6	0	0	Young	Manufacturing
RONALD D STEPHENS	C3456_1	59	0	0	Young	Irrigation
LOUIS PITCOCK JR ET AL	C3457_1	60	0	0	Young	Irrigation
GRAHAM	C3458_1	4000	0	0	Young	Municipal
CITY OF GRAHAM	C3458_2	1000	0	0	Young	Manufacturing
GRAHAM	C3458_3	7000	0	0	Young	Municipal
CITY OF GRAHAM	C3458_4	7400	0	0	Young	Manufacturing
CITY OF GRAHAM	C3458_5	100	0	0	Young	Irrigation
CITY OF GRAHAM	C3458_6	500	0	0	Young	Mining
ZACK BURKETT	C3459_1	12	0	0	Young	Irrigation
EAFCO LIMITED PARTNERSHIP	C3460_1	76	0	0	Young	Irrigation
MRS T T CAMPBELL	C3461_1	27	0	0	Young	Irrigation
EASTLAND CO WSD	C3465_1	450	0	0	Eastland	Municipal
CITY OF EASTLAND	C3465_2	50	0	0	Eastland	Manufacturing
CITY OF EASTLAND	C3465_3	100	0	0	Eastland	Irrigation
WAYNE HARGRAVE, ET UX	C3467_1	12	0	0	Eastland	Irrigation
EASTLAND INDUSTRIAL FOUNDATION	C3468_1	1607	0	0	Eastland	Mining
LARRY MORROW	C3469_1	21	0	0	Eastland	Irrigation
EASTLAND CO WSD	C3470_1	810	0	0	Eastland	Municipal
EASTLAND CO WSD	C3470_2	455	0	0	Eastland	Municipal
EASTLAND CO WSD	C3470_3	1560	0	0	Eastland	Municipal
EASTLAND CO WSD	C3470_4	877.5	0	0	Eastland	Municipal
EASTLAND CO WSD	C3470_5	1118	0	0	Eastland	Municipal

TABLE G-2. Summary of Surface Water Availability

EASTLAND CO WSD	C3470_6	629.5	0	0	Eastland	Municipal
EASTLAND CO WSD	C3470_7	350	0	0	Eastland	Manufacturing
EASTLAND CO WSD	C3470_8	500	0	0	Eastland	Municipal
RONNIE LOVE	C3473_1	40	0	0	Eastland	Municipal
JERRY P MEHAFFEY	C3474_1	30	0	0	Eastland	Irrigation
C M PIPPIN JR	C3475_1	8	0	0	Eastland	Irrigation
GARTH PETTIT	C3476_1	51	0	0	Comanche	Irrigation
TEDDY J SNIDER ET UX	C3479_1	30	0	0	Eastland	Irrigation
WILL D BROWN ET UX	C3481_1	25	0	0	Eastland	Irrigation
JOHNNY W & MARY C EAVES	C3482_1	13	0	0	Eastland	Irrigation
D B WARREN	C3483_1	90	0	0	Eastland	Irrigation
MURTICE C RODGERS	C3484_1	40	0	0	Eastland	Irrigation
D B WARREN	C3487_1	40	0	0	Eastland	Irrigation
HELEN L DICKSON	C3488_1	30	0	0	Eastland	Irrigation
THOMAS H BIRDSONG, III	C3489_1	140	0	0	Eastland	Irrigation
JOHN J HOLLAND	C3490_1	60	0	0	Comanche	Irrigation
G D LINDLEY	C3492_1	52	0	0	Comanche	Irrigation
EDDIE LINDLEY	C3493_1	35	0	0	Comanche	Irrigation
MOODY B KOONCE	C3494_1	140	0	0	Comanche	Irrigation
MOODY B KOONCE	C3495_1	94	0	0	Comanche	Irrigation
NANNIE LEE THOMPSON	C3496_1	21	0	0	Comanche	Irrigation
HERRALD ABELS	C3497_1	50	0	0	Comanche	Irrigation
RAYMOND L GILDER	C3498_1	100	0	0	Comanche	Irrigation
N L BOX	C3499_1	3	0	0	Comanche	Irrigation
OBBCO RANCH CORPORATION	C3500_1	24	0	0	Comanche	Irrigation
HAROLD D HIGGINBOTTOM	C3501_1	65	0	0	Comanche	Irrigation
ELMER RAY JOINER	C3504_1	20	0	0	Comanche	Irrigation
WAYNE MOORE ET UX	C3505_1	36	0	0	Comanche	Irrigation
J V STEWART	C3506_1	3	3	0	Erath	Irrigation
A D MCCLELLAN	C3511_1	73	0	0	Comanche	Irrigation
JIMMY DALE JOHNSON	C3512_1	6	0	0	Comanche	Irrigation
GAINES OIL COMPANY	C3514_1	7	0	0	Erath	Irrigation
MERLE JO PARKS TRUSTEE	C3517_1	250	0	0	Erath	Irrigation
KELLER-HYDEN INC	C3518_1	110	0	0	Erath	Irrigation
GARY D BEARD ET AL	C3519_1	25	0	0	Erath	Irrigation
BEN HAMNER	C3520_1	40	0	0	Eastland	Irrigation
TRUETT & PATSY S PRUILL	C3521_1	40	0	0	Eastland	Irrigation
JAMES L HUGHES	C3522_1	7	0	0	Eastland	Irrigation
ROBERT M & IMOGENE BURNS	C3523_1	20	0	0	Eastland	Irrigation
THOMAS H BIRDSONG III	C3525_1	10	0	0	Eastland	Irrigation
MARGRETTE JEAN MOON	C3528_1	121	0	0	Comanche	Irrigation
MARGRETTE JEAN MOON	C3528_2	67.25	0	0	Comanche	Irrigation
LOUIS SCHKADE ET AL	C3530_1	14	0	0	Comanche	Irrigation
LOUIS SCHKADE ET AL	C3530_2	7.84	0	0	Comanche	Irrigation
LOUIS SCHKADE ET AL	C3530_3	46	0	0	Comanche	Irrigation
LOUIS SCHKADE ET AL	C3530_4	29.05	0	0	Comanche	Irrigation
JIMMY L BINGHAM ET AL	C3532_1	29	0	0	Comanche	Irrigation
BOBBY L SKAGGS & GENE E SKAGGS	C3533_1	25	0	0	Comanche	Irrigation
JUNE M.ROUNTRE E, TRUSTEE	C3534_1	24	0	0	Comanche	Irrigation
JACK & THELMA LOU RILEY	C3535_1	8	0	0	Comanche	Irrigation
LYNDELL F COAN	C3536_1	31	0	0	Comanche	Irrigation
ED GLOVER JR	C3539_1	75	0	0	Comanche	Irrigation
SPRUILL BROTHERS DRILLING CO	C3540_1	90	0	0	Comanche	Irrigation
SPRUILL BROTHERS DRILLING CO	C3540_2	51.5	0	0	Comanche	Irrigation
SPRUILL BROTHERS DRILLING CO	C3540_3	43.62	0	0	Comanche	Irrigation
SAM D & MARTHA L UPSHAW	C3541_1	45	0	0	Comanche	Irrigation
HELEN SUE WILSON	C3543_1	28	0	0	Comanche	Irrigation
JIM LAMPMAN ET AL	C3544_1	17	0	0	Comanche	Irrigation
E A WALKER	C3546_1	7.5	0	0	Comanche	Irrigation
E A WALKER	C3546_2	1.5	0	0	Comanche	Irrigation
A G LEE	C3547_1	70	0	0	Comanche	Irrigation
SEBORN E GOLDEN	C3548_1	166	0	0	Comanche	Irrigation
T A NOWLIN	C3549_1	42	0	0	Comanche	Irrigation
THOMAS A LEE JR ET UX	C3550_1	60	0	0	Comanche	Irrigation
J V SKAGGS	C3552_1	80	0	0	Comanche	Irrigation
LEE ROY COTTON	C3553_1	53	0	0	Comanche	Irrigation
E J TERRY	C3554_1	25	0	0	Comanche	Irrigation
GAYLE MCGINNIS	C3556_1	7.5	0	0	Comanche	Irrigation
LAKE PROCTOR IRR AUTH	C3557_1	97.5	0	0	Comanche	Irrigation
STEVEN MARK BIGGS ET AL	C3558_1	12	0	0	Comanche	Irrigation
ALICE MAE JONES	C3568_1	50	0	0	Comanche	Irrigation
HEARSHEL JANES	C3569_1	10	0	0	Comanche	Irrigation

TABLE G-2. Summary of Surface Water Availability

A T GILCHREST	C3572_1	140	0	0	Comanche	Irrigation
BOBBY N HUDDLESTON	C3575_1	16	0	0	Comanche	Irrigation
T.A. NOWLIN COPP	C3579_1	32	0	0	Comanche	Irrigation
ELDON WADE BUTLER	C3581_1	65	0	0	Comanche	Irrigation
JULIA JO BAXTER MART	C3584_1	93.33	0	0	Comanche	Irrigation
WAYNE D GILLIAM	C3585_1	23	0	0	Comanche	Irrigation
DON P CHESTER ET UX	C3586_1	154	0	0	Comanche	Irrigation
GEORGE E BINGHAM ET AL	C3587_1	195	0	0	Comanche	Irrigation
BILLY J. GRESSETT, ET AL	C3588_1	29	0	0	Comanche	Irrigation
LOUIS G & BETTY HARELIK	C3589_1	185	0	0	Comanche	Irrigation
CLIFTON D & FRANKIE GEYE	C3590_1	322	0	0	Comanche	Irrigation
LEON Y NICHOLS	C3592_1	109	0	0	Comanche	Irrigation
VERA MULL	C3593_1	8	0	0	Comanche	Irrigation
VERA MULL	C3593_2	17	0	0	Comanche	Irrigation
WOLFE PECANLANDS INC	C3594_1	16	0	0	Comanche	Irrigation
REX MCGINNIS	C3595_1	10	0	0	Comanche	Irrigation
R C PINKARD	C3596_1	280	0	0	Comanche	Irrigation
BOBBIE G WILSON	C3606_1	3	0	0	Comanche	Irrigation
NORMAN MOORE ET UX	C3608_1	21	0	0	Comanche	Irrigation
JOHN M HATHCOCK	C3609_1	50	0	0	Comanche	Irrigation
JOHN O SIMPSON	C3610_1	143	0	0	Comanche	Irrigation
HUGH MONSELLE O'BRIEN	C3611_1	38	0	0	Comanche	Irrigation
FRED S DAVIS	C3612_1	93	0	0	Comanche	Irrigation
HUGH MONSELLE O'BRIEN	C3613_1	95	0	0	Comanche	Irrigation
DON P CHESTER	C3614_1	10	0	0	Comanche	Irrigation
A E VINEYARD	C3615_1	48	0	0	Comanche	Irrigation
B J VINEYARD	C3616_1	12	0	0	Comanche	Irrigation
WALTER MAZUREK	C3617_1	3	0	0	Comanche	Irrigation
OBBCO RANCH CORPORATION	C3618_1	47	0	0	Comanche	Irrigation
OBBCO RANCH CORPORATION	C3618_2	78.47	0	0	Comanche	Irrigation
OBBCO RANCH CORPORATION	C3618_3	9	0	0	Comanche	Irrigation
OBBCO RANCH CORPORATION	C3618_4	8.11	0	0	Comanche	Irrigation
JFB FARMS A PARTNERSHIP	C3619_1	20	0	0	Comanche	Irrigation
E J ALDERMAN	C3620_1	25	0	0	Comanche	Irrigation
E J ALDERMAN	C3620_2	72	0	0	Comanche	Irrigation
MRS MERLE MATTHEWS	C3623_1	26	0	0	Comanche	Irrigation
MRS MERLE MATTHEWS	C3623_2	18.4	0	0	Comanche	Irrigation
PAULINE HALL	C3624_1	14	0	0	Comanche	Irrigation
PAULINE HALL	C3624_2	10.59	0	0	Comanche	Irrigation
WOLFE PECANLANDS INC	C3626_1	160	0	0	Comanche	Irrigation
DINAH KAY DENSMAN ET AL	C3627_1	13	0	0	Comanche	Irrigation
BOBBY & LINDA SIKES	C3629_1	48	0	0	Erath	Irrigation
J H VAN ZANT	C3630_1	30	0	0	Comanche	Irrigation
J Z STARK	C3631_1	50	0	0	Comanche	Irrigation
RANDLE JOE EVANS	C3632_1	3	0	0	Comanche	Irrigation
DONALD DEE SALTER ET AL	C3633_1	61	0	0	Comanche	Irrigation
BEATRICE LOGGINS	C3634_1	31	0	0	Comanche	Irrigation
JOE RILEY	C3635_1	84	0	0	Comanche	Irrigation
GAYLAND STEPHENS ET UX	C3636_1	40	0	0	Comanche	Irrigation
GORES INCORPORATED	C3637_1	450	0	0	Comanche	Irrigation
GORES INCORPORATED	C3637_2	170.82	0	0	Comanche	Irrigation
J B GUNTER & P D GUNTER	C3638_1	40	0	0	Comanche	Irrigation
GAIL W & MARY L YORK	C3639_1	35	0	0	Comanche	Irrigation
SCOTT G. SALTER	C3640_1	23	0	0	Comanche	Irrigation
CARL DWAIN HALL	C3642_1	9	0	0	Comanche	Irrigation
JOHN PAUL MCCULLOUGH ET UX	C3643_1	69	0	0	Comanche	Irrigation
BILL BLUE	C3644_1	15	0	0	Comanche	Irrigation
MARK & SHERRI GUNTER	C3645_1	18	0	0	Comanche	Irrigation
THOMAS E LUKER	C3646_1	7	0	0	Comanche	Irrigation
DONALD W MOORE	C3647_1	41	0	0	Comanche	Irrigation
EVA F MOORE	C3648_1	49	0	0	Comanche	Irrigation
EVA F MOORE	C3648_2	19.39	0	0	Comanche	Irrigation
CULLEN STEPHENS	C3649_1	130	0	0	Comanche	Irrigation
GUY E MOORE	C3650_1	34	0	0	Comanche	Irrigation
JOHN R MOORE ET UX	C3651_1	107	0	0	Comanche	Irrigation
JOE D MOORE	C3651_2	15	0	0	Comanche	Irrigation
O A DICKEY	C3652_1	8	0	0	Comanche	Irrigation
LARRY WAYNE ADAMS	C3653_1	12	0	0	Comanche	Irrigation
ESTATE OF WAYNE ADAMS; GRACE OLEN	C3653_2	700	0	0	Comanche	Irrigation
GRACE OLENA ADAMS	C3653_3	258	0	0	Comanche	Irrigation
CAROLYN HAYES TRUSTEE	C3654_1	65.3	0	0	Comanche	Irrigation
CAROLYN RINEHART HAYES	C3654_2	32.7	0	0	Comanche	Irrigation

TABLE G-2. Summary of Surface Water Availability

ARBIE N BOYD ET UX & GARY K BOYD	C3655_1	22	0	0	Comanche	Irrigation
MARTIN W & JUANITA SEIDER	C3656_1	36	0	0	Comanche	Irrigation
LEO C HAGGARD ET UX	C3657_1	56	0	0	Comanche	Irrigation
H L WILLINGHAM ESTATE	C3658_1	7	0	0	Comanche	Irrigation
COMANCHE COUNTY-OTHER	C3659_1	200	0	0	Comanche	Municipal
ERW INC ET AL	C3659_2	200	0	0	Comanche	Irrigation
BELVE BEAN	C3660_1	58	0	0	Comanche	Irrigation
BELVE BEAN	C3660_2	11	0	0	Comanche	Manufacturing
C H MCCALL ET UX	C3661_1	187	0	0	Comanche	Irrigation
"JIMMY E GORE, ET AL"	C3662_1	600	0	0	Comanche	Irrigation
R E BASHAM JR	C3663_1	67	0	0	Comanche	Irrigation
CAROL SUE REED	C3716_1	134	0	0	Kent	Irrigation
BALDRIDGE FAMILY LAND TX PARTN	C3717_1	420	0	0	Kent	Irrigation
TEXACO INC	C3718_1	3525	0	0	Kent	Mining
TEXACO INC	C3718_2	2375	0	0	Kent	Mining
SUN EXPLORATION&PROD CO ET AL	C3719_1	165	0	0	Fisher	Mining
BILLIE JOE MCCOMBS	C3720_1	44	0	0	Fisher	Irrigation
BRUCE & PATSY K COX	C3721_1	100	0	0	Fisher	Irrigation
BRUCE & PATSY K COX	C3721_2	26	0	0	Fisher	Manufacturing
SUN EXPLORATION&PRODUCTION CO	C3722_1	565	0	0	Stonewall	Mining
DON W DAVIS	C3724_1	1016	0	0	Haskell	Irrigation
MOLLIE H BROOKS ET AL	C3726_1	5	0	0	Bell	Irrigation
MOLLIE H BROOKS ET AL	C3726_2	5	0	0	Bell	Irrigation
"B R LAUTERBORN, HERMAN NEUSCH"	C3727_1	72	0	0	Milam	Irrigation
JOE GLASER	C3729_1	100	0	0	Milam	Manufacturing
JOE P (JR) & HENRIETTA CALLAN	C3730_1	21	0	0	Williamson	Irrigation
REUBEN FLOYD CLARK	C3731_1	29	0	0	Williamson	Irrigation
GEORGETOWN COUNTRY CLUB	C3734_1	45	0	0	Williamson	Irrigation
HENRY GRADY RYLANDER	C3736_1	1	0	0	Williamson	Irrigation
GENE H BINGHAM ET AL	C3739_1	240	0	0	Williamson	Mining
WENDELL F. GIBSON	C3740_1	20	0	0	Williamson	Irrigation
LINDA ANN SMITH	C3741_1	10.9	0	0	Williamson	Irrigation
TED KALLUS ET UX	C3741_2	17.1	0	0	Williamson	Irrigation
MAXINE HARRIS	C3742_1	16.9	0	0	Williamson	Irrigation
R SCOTT POPE ET UX	C3742_2	7.2	0	0	Williamson	Irrigation
JL ENTERPRISES LLP	C3743_1	32	0	0	Williamson	Irrigation
T. D. VAUGHAN	C3744_1	110	0	0	Williamson	Irrigation
BEN W KURIO (BWK PARTNERSHIP)	C3745_1	33	0	0	Williamson	Irrigation
CHARLENE M SEFCIK	C3746_1	12	0	0	Williamson	Irrigation
JIMMY F. BYERS	C3747_1	284	0	0	Williamson	Irrigation
A C STEARNS ESTATE	C3748_1	203	0	0	Williamson	Manufacturing
W T PEARSON JR	C3749_1	110	0	0	Milam	Irrigation
T.R. COFFIELD	C3750_1	125	0	0	Milam	Irrigation
BERTHA S. JOHNSON	C3751_1	30	30	30	Williamson	Irrigation
THE ESTATE OF JOHN V STILES	C3753_1	1	1	1	Williamson	Irrigation
THORNDALE	C3754_1	60	0	0	Williamson	Municipal
W.A. & JACK WINTERROWD	C3755_1	29	0	0	Williamson	Irrigation
W.A. & JACK WINTERROWD	C3755_2	21	21	21	Williamson	Irrigation
LESTER W. STILES	C3756_1	3	0	0	Williamson	Irrigation
THORNDALE	C3757_1	100	100	100	Williamson	Municipal
DONNY LINDNER ET UX	C3759_1	300	0	0	Milam	Irrigation
DONNY LINDNER ET UX	C3759_2	126.49	0	0	Milam	Irrigation
CLIFFORD L GUSTAFSON ET UX	C3760_1	41.5	42	42	Milam	Irrigation
CAMERON	C3761_1	2792	2,792	2,792	Milam	Municipal
ESTATE OF HUBERT L MCCLAREN	C3763_1	40	0	0	Milam	Irrigation
HAROLD B & OPAL B FISHER	C3764_1	45	0	0	Milam	Irrigation
LARRY WAYNE MCCLAREN ET AL	C3765_1	148	0	0	Milam	Irrigation
LINDA ETHRIDGE GROTHE	C3766_1	90	0	0	Milam	Irrigation
FIVE WELLS RANCH COMPANY	C3767_1	120	0	0	Bell	Irrigation
MICHAEL LLOYD ET UX	C3768_1	12.7	0	0	Milam	Irrigation
MICHAEL LLOYD ET UX	C3768_2	112	0	0	Milam	Manufacturing
LARRY WAYNE MCCLAREN	C3769_1	150	0	0	Milam	Irrigation
JANE SMOOT	C3770_1	149	0	0	Milam	Irrigation
"ELLIOTT W. ATKINSON, ET AL"	C3771_1	15	0	0	Milam	Irrigation
V.T. WHITE	C3772_1	8	0	0	Milam	Irrigation
ARLEDGE & SHANAHAN LP	C3773_1	1300	0	0	Milam	Irrigation
ARLEDGE & SHANAHAN LP	C3773_2	250.61	0	0	Milam	Irrigation
JANE SMOOT	C3774_1	30	0	0	Milam	Irrigation
LLOYD E LEIFESTE ET UX	C3775_1	577.66	0	0	Milam	Irrigation
VERONICA ROESSLER ET AL	C3775_2	622.59	0	0	Milam	Irrigation
Robertson (Fee)	C3775_3	66.75	0	0	Milam	Irrigation
LLOYD E LEIFESTE ET UX	C3775_4	500	0	0	Milam	Irrigation

MARVIN H MCMURREY JR ETAL	C3999_1	25	0	0	Palo Pinto	Irrigation
CURTIS MITCHELL	C4000_1	31	0	0	Palo Pinto	Irrigation
JENNIE M & M F EWTON	C4001_1	40	0	0	Palo Pinto	Irrigation
MRS G C MOORE	C4003_1	41	0	0	Palo Pinto	Irrigation
GRAFORD	C4004_1	5	0	0	Palo Pinto	Municipal
GRAFORD	C4004_2	50	0	0	Palo Pinto	Municipal
W. J. RHODES ETAL	C4005_1	781	0	0	Palo Pinto	Irrigation
"SAN ROC, LLC"	C4006_1	63	0	0	Palo Pinto	Irrigation
MARY E. RIPPETOE	C4007_1	50	0	0	Palo Pinto	Irrigation
W. A. CAREY	C4008_1	110	0	0	Palo Pinto	Irrigation
ERNEST E. AMMONS	C4009_1	24	0	0	Palo Pinto	Irrigation
CHARLES W. & JEAN WELCH	C4010_1	33	0	0	Palo Pinto	Irrigation
"JACKIE LEE CHASTAIN, ET AL"	C4011_1	8	0	0	Palo Pinto	Irrigation
EARL W. & ANITA GARDNER	C4012_8	236	0	0	Palo Pinto	Irrigation
ROCKING W RANCH LP	C4013_2	200.45	0	0	Palo Pinto	Irrigation
ROCKING W RANCH LP	C4013_3	197.39	0	0	Palo Pinto	Irrigation
ROCKING W RANCH LP	C4013_4	191.58	0	0	Palo Pinto	Irrigation
FRED HAGAMAN ET AL	C4014_1	500	0	0	Eastland	Irrigation
FRED HAGAMAN ET AL	C4014_2	100	0	0	Eastland	Manufacturing
FRED HAGAMAN ET AL	C4015_1	27	0	0	Eastland	Irrigation
HUBERT H CAPPS	C4016_1	22	0	0	Eastland	Irrigation
LYNDAL D GARNER JR ET UX	C4017_1	40	0	0	Eastland	Irrigation
ROSS HODGES	C4018_1	40	0	0	Eastland	Irrigation
STRAWN	C4019_1	160	160	160	Palo Pinto	Municipal
PERRY R. HORTON ETAL	C4020_1	362	0	0	Palo Pinto	Irrigation
R. J. CARAWAY	C4021_1	30	0	0	Palo Pinto	Irrigation
R. J. CARAWAY	C4021_2	41	0	0	Palo Pinto	Mining
PENNY SPARKS	C4022_1	60	0	0	Palo Pinto	Irrigation
A. D. CRAWFORD	C4023_1	30	0	0	Eastland	Irrigation
PALO PINTO COUNTY-OTHER	C4024_1	115	0	0	Palo Pinto	Municipal
PALO PINTO COUNTY-OTHER	C4024_2	45	0	0	Palo Pinto	Municipal
PALO PINTO COUNTY-OTHER	C4024_3	245	0	0	Palo Pinto	Municipal
ERATH COUNTY-OTHER	C4025_1	60	0	0	Erath	Municipal
TARRANT INVESTMENT CO INC	C4025_2	30	0	0	Erath	Mining
ERATH COUNTY-OTHER	C4026_1	20	0	0	Erath	Municipal
JACK R DAUGHERTY	C4027_1	80	0	0	Palo Pinto	Irrigation
J L MCDANIEL	C4028_1	38	0	0	Erath	Irrigation
"EARL WADDELL, INC."	C4029_1	2	0	0	Palo Pinto	Irrigation
PALO PINTO CO MWD 1	C4031_1	5200	1,861	0	Palo Pinto	Municipal
PALO PINTO CO MWD 1	C4031_2	2800	0	0	Palo Pinto	Municipal
PALO PINTO CO MWD 1	C4031_3	1300	0	0	Palo Pinto	Municipal
PALO PINTO CO MWD 1	C4031_4	700	0	0	Palo Pinto	Municipal
PALO PINTO CO MWD 1	C4031_5	3480	0	0	Palo Pinto	Steam-Electric
CHARLIE RAY COCKBURN	C4032_1	16	0	0	Palo Pinto	Municipal
J L MCDANIEL	C4034_1	30	0	0	Erath	Irrigation
J. E. MCDANIEL	C4035_1	5	0	0	Palo Pinto	Irrigation
"EARL WADDELL, INC."	C4036_1	55	0	0	Palo Pinto	Irrigation
ROY E SQUYRES ET AL	C4037_1	100	0	0	Palo Pinto	Irrigation
HERMAN PETTY	C4038_1	150	0	0	Palo Pinto	Irrigation
H D HOWARD	C4048_1	25	0	0	Hood	Irrigation
HOOD COUNTY-OTHER	C4048_2	35	0	0	Hood	Municipal
FRED L THORMANN	C4049_1	12	0	0	Hood	Irrigation
FRED L THORMANN	C4050_1	23	0	0	Hood	Irrigation
JESSE T CROWDER JR TRUST	C4054_1	12.15	0	0	Hood	Irrigation
JOHN WESSLER ET AL	C4054_2	26.85	0	0	Hood	Irrigation
MCI LAND COMPANY	C4055_1	42	0	0	Hood	Irrigation
"BANK ONE TEXAS NA, TRUSTEE"	C4056_1	144	0	0	Hood	Irrigation
MARY L & C W KILLOUGH	C4057_1	109	0	0	Hood	Irrigation
HELEN T DURHAM ESTATE	C4059_1	35	0	0	Hood	Irrigation
LORENE DURHAM ESTATE ET AL	C4060_1	616	0	0	Hood	Irrigation
BURTON S BURKS SR ET AL	C4061_1	65	0	0	Hood	Irrigation
THOMAS FAMILY TRUST	C4062_1	383	0	0	Hood	Irrigation
FRED GRIMES ET AL	C4063_1	348	0	0	Hood	Irrigation
BURTON S BURKS JR	C4064_1	25	0	0	Hood	Irrigation
ROBERT & C J WHITEHEAD	C4065_1	84	0	0	Hood	Irrigation
COURTS K CLEVELAND JR	C4067_1	63	0	0	Hood	Irrigation
COLLIE W OLIVER	C4068_1	72	0	0	Hood	Irrigation
WALKER MURRAY RANDLE	C4069_1	120	0	0	Hood	Irrigation
LESLIE L. MABERY	C4070_1	141	0	0	Hood	Irrigation
R E MABERY	C4071_1	83	0	0	Hood	Irrigation
JAMES E ANTHONY ET AL	C4072_1	308	0	0	Hood	Irrigation
JAMES E ANTHONY ET AL	C4072_2	172	0	0	Hood	Irrigation

JAMES E ANTHONY ET AL	C4072_3	117	0	0	Hood	Irrigation
JAMES R. ROBINSON	C4073_1	42	0	0	Hood	Irrigation
E. F. ALLISON	C4074_1	26	0	0	Hood	Irrigation
D. J. VAUGHN	C4076_1	15.5	0	0	Hood	Irrigation
ROBIN K SNIDER ET AL	C4076_2	23.5	0	0	Hood	Irrigation
D. J. BROWN	C4077_1	30	0	0	Hood	Irrigation
ROBERT & MARGARET KING INV INC	C4078_1	54	0	0	Hood	Irrigation
JAMES ROBERT HILL	C4079_1	92	0	0	Hood	Irrigation
J V & M G DURANT	C4080_1	112	0	0	Somervell	Irrigation
F. L. VAUGHN	C4081_1	160	0	0	Somervell	Irrigation
S. B. GRISSOM	C4082_1	203	0	0	Somervell	Irrigation
ROBERT L FOREE JR	C4083_1	45	0	0	Hood	Irrigation
EARL R ALLISON	C4084_1	25	0	0	Erath	Irrigation
EARL R ALLISON	C4084_2	1.39	0	0	Erath	NIF
EARL R ALLISON	C4085_1	10.3	0	0	Erath	Irrigation
DANE ALLISON ET UX	C4085_2	17.7	0	0	Erath	Irrigation
GARY & BEVERLY LEWELLEN	C4086_1	15	0	0	Erath	Irrigation
LELAND A HODGES ET AL	C4087_1	81	0	1	Hood	Irrigation
MILTON C. & VIVIAN YoungG	C4088_1	55	0	0	Hood	Irrigation
JACOB T. & LAURA DAMERON	C4089_1	31	0	0	Erath	Irrigation
RICHARD T. LIETZ ESTATE	C4090_1	197	0	0	Erath	Irrigation
KENNETH LESLEY	C4091_1	360	0	0	Erath	Irrigation
"ROBERT D. ADAMS, SR."	C4092_1	6	0	0	Erath	Irrigation
ERNEST H CANNON	C4093_1	94	0	0	Hood	Irrigation
J B SANDERSON ET AL	C4094_1	16	0	0	Somervell	Irrigation
J. C. MCFALL	C4095_1	10	0	0	Somervell	Irrigation
TEXAS UTILITIES ELECTRIC CO	C4097_1	23180	0	0	Somervell	Steam-Electric
BOB HARRIS OIL CO	C4098_1	258	0	0	Somervell	Irrigation
DOROTHY W. LITTLE ETAL	C4099_1	5	0	0	Somervell	Irrigation
LAFARGE CORPORATION	C4100_1	125	0	0	Johnson	Mining
STANDARD INVESTMENT CO.	C4102_1	77	0	0	Johnson	Irrigation
"CYRIL WAGNER, JR., ETAL"	C4103_1	186	0	0	Bosque	Irrigation
PERRY R BASS INC	C4104_1	3811	0	0	Bosque	Irrigation
WESLEY RAY CARSON	C4105_1	8	0	0	Johnson	Irrigation
CREPE MYRTLE OF TEXAS INC	C4105_2	4	0	0	Johnson	Irrigation
CLEBURNE	C4106_1	5760	0	0	Johnson	Municipal
CITY OF CLEBURNE	C4106_3	240	0	0	Johnson	Irrigation
RIVERVIEW INC	C4107_1	231	0	0	Johnson	Irrigation
RIVERVIEW INC	C4107_2	96.53	0	0	Johnson	Irrigation
HARRY V DULICK	C4108_1	27	0	0	Bosque	Irrigation
HARRY V DULICK	C4108_2	5	0	0	Bosque	Manufacturing
LOUIS & VIRGINIA GREGORY	C4109_1	10	0	0	Bosque	Irrigation
LUCILLE C BUTLER	C4110_1	20	0	0	Bosque	Irrigation
"PAUL C. MURPHY, JR."	C4111_1	6	0	0	Bosque	Irrigation
LOUIS & VIRGINIA GREGORY	C4112_1	12	0	0	Bosque	Irrigation
JAMES M. WALKER	C4113_1	43	43	43	Bosque	Irrigation
THOMAS BROTHERS GRASS LTD	C4114_1	300	0	0	Hood	Irrigation
H & H FEEDLOT INC	C4115_1	45	0	0	Nolan	Manufacturing
MARJORIE HAMBRIGHT	C4116_1	2	0	0	Fisher	Irrigation
DR HELEN F YEATS	C4117_1	1	0	0	Fisher	Irrigation
ZANNA H ANDERSON	C4118_1	8	0	0	Fisher	Irrigation
ALFRED L. CAREY ET UX	C4119_1	5	0	0	Fisher	Irrigation
MAX D. CARRIKER ESTATE ETAL	C4120_1	74	0	0	Fisher	Irrigation
WILLARD L. BURK	C4121_1	263	0	0	Fisher	Irrigation
MAX D. CARRIKER ESTATE	C4122_1	60	0	0	Fisher	Irrigation
FREDDIE MAC STUART	C4123_1	17	17	17	Fisher	Irrigation
"ALFRED S. WALDROP, ETAL"	C4124_1	55	0	0	Fisher	Irrigation
BOYD H. LAKEY	C4126_1	55	0	0	Fisher	Irrigation
JAMES RANDOLPH SCOTT	C4127_1	120	0	0	Jones	Irrigation
SWEETWATER	C4128_1	2000	0	0	Nolan	Municipal
SWEETWATER	C4128_2	7000	0	0	Nolan	Municipal
"SWEETWATER COUNTRY CLUB, INC"	C4129_1	40	40	40	Nolan	Irrigation
SWEETWATER	C4130_1	2730	0	0	Nolan	Municipal
CITY OF SWEETWATER	C4130_2	960	0	0	Nolan	Manufacturing
CITY OF SWEETWATER	C4130_3	50	0	0	Nolan	Irrigation
HARRY C. REAUGH & WIFE	C4132_1	212	0	0	Jones	Irrigation
JAMES FARRINGTON ET AL	C4133_1	225	0	0	Jones	Irrigation
BILLY DOAN	C4134_1	45	0	0	Taylor	Irrigation
HUGH T. LILLY	C4135_1	28	0	0	Taylor	Irrigation
NELSON PUETT	C4136_1	338	0	0	Jones	Mining
NELSON PUETT	C4136_2	7	0	0	Jones	Manufacturing
ROSS S BRADFORD ET UX	C4137_1	54	0	0	Jones	Irrigation

THOMAS J MARSHALL & WIFE	C4138_1	2	0	0	Jones	Irrigation
RALPH BRIDWELL ET UX	C4140_1	165	0	0	Jones	Irrigation
DOLLY KEESEE	C4141_1	69	0	0	Jones	Irrigation
ABILENE	C4142_1	1675	1,675	0	Taylor	Municipal
BILL JAY ET AL	C4144_1	73	0	0	Taylor	Manufacturing
"BILL JAY, ET AL"	C4145_1	168	0	0	Taylor	Manufacturing
J H TAYLOR GAS COMPANY	C4146_1	4	0	0	Taylor	Irrigation
LEE ARTHUR PRESSWOOD	C4147_1	14	0	0	Taylor	Irrigation
RILEY G MAXWELL CO ET AL	C4148_1	5	0	0	Taylor	Irrigation
NOEL W. PETRE	C4149_1	42	0	0	Jones	Irrigation
ABILENE	C4150_1	3765	0	0	Taylor	Municipal
ABILENE	C4150_2	115	0	0	Taylor	Irrigation
CLYDE	C4151_1	2500	0	0	Jones	Steam-Electric
TAYLOR COUNTY-OTHER	C4152_1	230	230	230	Taylor	Municipal
RAYMOND MCNUTT	C4155_1	6	0	0	Taylor	Irrigation
ROY ELTON ROBBINS & WIFE	C4156_1	5	0	0	Taylor	Irrigation
H C WELCH	C4157_1	70	0	0	Taylor	Irrigation
ROY J. GRIFFITH	C4158_1	75	0	0	Taylor	Irrigation
J. C. GRIFFITH	C4159_1	42	0	0	Taylor	Irrigation
ABILENE	C4161_1	25690	0	0	Jones	Municipal
ABILENE	C4161_2	5008.22	0	0	Jones	Municipal
ABILENE	C4161_3	2217.14	0	0	Jones	Irrigation
JAMES H. ICE	C4162_1	179	0	0	Jones	Irrigation
BILLY MAC COOK	C4163_1	44	0	0	Jones	Irrigation
J. N. MONTGOMERY & WIFE	C4164_1	32	0	0	Jones	Irrigation
IRLENE M SMITH ET AL	C4166_1	32	0	0	Jones	Irrigation
GEOCHEMICAL SURVEYS	C4167_1	40	0	0	Jones	Mining
ZOHN MILAM	C4168_1	15	0	0	Young	Irrigation
RICHARD SCHKADE	C4169_1	62	0	0	Shackelfor	Irrigation
RICHARD SCHKADE	C4169_2	5	0	0	Shackelfor	Mining
J M ALEXANDER RANCH CO LTD	C4170_1	200	0	0	Jones	Irrigation
MARY LOIS WILSON	C4171_1	310	0	0	Jones	Irrigation
VIOLET H FRAZIER	C4172_1	92	0	0	Jones	Irrigation
VIOLET H FRAZIER	C4173_1	40	0	0	Jones	Irrigation
H R STASNEY & SONS LTD	C4175_1	21	0	0	Shackelfor	D&L
H R STASNEY & SONS LTD	C4175_2	1.63	2	2	Shackelfor	D&L
H R STASNEY & SONS LTD	C4175_3	63	0	0	Shackelfor	Mining
H R STASNEY & SONS LTD	C4175_4	4.99	5	5	Shackelfor	Mining
JOSEPH ELMER COX	C4176_1	120	0	0	Haskell	Irrigation
W. B. GRIFFITH ETAL	C4177_1	95	0	0	Haskell	Irrigation
EMILEE G. GOFF ETAL	C4178_1	78	0	0	Haskell	Irrigation
STAMFORD	C4179_1	10000	0	0	Haskell	Municipal
HAMLIN	C4180_1	300	300	300	Jones	Municipal
ANSON	C4181_1	542	0	0	Jones	Municipal
HASKELL COUNTY COUNTRY CLUB	C4184_1	7	0	0	Haskell	Irrigation
ERNEST D. FINCHER	C4185_1	10	0	0	Shackelfor	Irrigation
RAYMOND C TAYLOR ET AL	C4186_1	20	0	0	Shackelfor	Irrigation
RAYMOND C TAYLOR ET AL	C4186_2	3.45	0	0	Shackelfor	Irrigation
BRECKENRIDGE PARTNERSHIP LTD	C4187_1	300	0	0	Stephens	Irrigation
T C HARRIS JR	C4188_1	40	0	0	Stephens	Irrigation
BRECKENRIDGE PARTNERSHIP LTD	C4189_1	69	0	0	Stephens	Irrigation
BRECKENRIDGE PARTNERSHIP LTD	C4190_1	70	0	0	Stephens	Irrigation
M RAY PUCKETT EST ET AL	C4191_1	98.59	0	0	Stephens	Irrigation
M RAY PUCKETT EST ET AL	C4191_2	96.41	0	0	Stephens	Irrigation
MRS. W. R. POWERS ESTATE	C4192_1	30	0	0	Stephens	Irrigation
ThrockmortonCKMORTON COUNTY-OTHER	C4194_1	60	60	60	Throckmor	Municipal
GILBERT E BRANDENBERGER ET UX	C4195_1	22	0	0	Stephens	Irrigation
JOE DAVIS	C4196_1	18	0	0	Stephens	Irrigation
J W SULLIVAN	C4197_1	20	0	0	Stephens	Irrigation
OWEN D WOODWARD	C4199_1	98	0	0	Stephens	Irrigation
OWEN D WOODWARD	C4199_2	70.17	0	0	Stephens	Irrigation
BAIRD	C4202_1	550	0	0	Callahan	Municipal
"A. E. DYER, JR."	C4203_1	24	0	0	Callahan	Irrigation
KENNETH M GEORGE & WIFE	C4204_1	16	0	0	Callahan	Irrigation
EUGENE LEE FINLEY	C4205_1	50	0	0	Callahan	Irrigation
TERRY T POSEY ET UX	C4206_1	40	0	0	Fisher	Irrigation
SHACKELFORD COUNTY-OTHER	C4207_1	90	90	90	Shackelfor	Municipal
ALBANY	C4208_1	600	89	89	Shackelfor	Municipal
DAMSON OIL CORP ET AL	C4209_1	50	50	50	Shackelfor	Manufacturing
JAMES R. GREEN	C4210_1	35	0	0	Shackelfor	Irrigation
CISCO	C4211_1	1971	0	0	Eastland	Municipal
CITY OF CISCO	C4211_3	56	0	0	Eastland	Manufacturing

TABLE G-2. Summary of Surface Water Availability

CISCO	C4212_1	1000	0	0	Eastland	Municipal
WEST CENTRAL TEXAS MWD	C4213_1	21008	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_2	17362	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_3	1882	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_4	2061	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_5	2487	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_6	2000	0	0	Stephens	D&L
WEST CENTRAL TEXAS MWD	C4213_7	1200	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_8	6000	0	0	Stephens	Municipal
WEST CENTRAL TEXAS MWD	C4213_9	2000	0	0	Stephens	Municipal
BRECKENRIDGE	C4214_1	2100	0	0	Stephens	Municipal
T. C. FAMBRO & SONS	C4215_1	6	0	0	Stephens	Irrigation
SARAH SATTERWHITE	C4216_1	30	0	0	Stephens	Irrigation
SWANSON MULESHOE RANCH LTD	C4217_1	218	0	0	Stephens	Mining
JACK T ROBERTSON JR	C4218_1	32	0	0	Stephens	Irrigation
ELLA PEARL ROBERTSON	C4219_1	22	0	0	Stephens	Irrigation
ELLA PEARL ROBERTSON	C4220_1	39	0	0	Stephens	Irrigation
ELLA PEARL ROBERTSON	C4221_1	42	0	0	Stephens	Irrigation
ELLA PEARL ROBERTSON	C4222_1	45	0	0	Stephens	Irrigation
BRECKENRIDGE GASOLINE CO	C4223_1	97	0	0	Stephens	Manufacturing
E E RILEY	C4225_1	30	0	0	Young	Irrigation
SAMUEL JOHN ROACH	C4226_1	628	0	0	Young	Irrigation
"C. R. BALDWIN, JR."	C4227_1	181	0	0	Young	Irrigation
CHESLEY J AUTEN	C4315_1	30	0	0	Hill	Irrigation
B W & SARA J. BOWERS	C4316_1	75	0	0	Hill	Irrigation
MARY ANN JENKINS ET AL	C4317_1	243	0	0	Bosque	Irrigation
JOHN MCPHERSON ET AL	C4318_1	647	0	0	Bosque	Irrigation
ED HUDDLESTON & JOHN MCPHERSON E	C4318_2	2820	0	0	Bosque	Irrigation
BIRCH WILFONG	C4319_1	34	0	0	Hill	Irrigation
HERMAN L HORN	C4320_1	84	0	0	Hill	Irrigation
WALTON K BALLEW	C4321_1	337	0	0	Hill	Irrigation
ALTHIA B G BURNETTE	C4322_1	175	0	0	Hill	Irrigation
DOCK L BURNETTE	C4323_1	173	0	0	Hill	Irrigation
VANESSA A GILPIN	C4324_1	305	0	0	Hill	Irrigation
NELDA KATHRYN CARGILL	C4325_1	48	0	0	McLennan	Irrigation
DAN WELDON WILLIAMS	C4326_1	6	0	0	McLennan	Irrigation
DAN WELDON WILLIAMS	C4327_1	4	0	0	McLennan	Irrigation
GEORGE L MOORE	C4328_1	40	0	0	McLennan	Irrigation
THOMAS BOTHERS GRASS LTD	C4329_1	74	0	0	McLennan	Manufacturing
THOMAS BOTHERS GRASS LTD	C4329_2	856	0	0	McLennan	Irrigation
KARL LEE & ELSIE MAE REDDELL	C4330_1	16	0	0	McLennan	Irrigation
DIANA M WELLBORN ET AL	C4331_1	44	0	0	McLennan	Irrigation
KARL LEE REDDELL ET AL	C4332_1	32	0	0	McLennan	Irrigation
HILLSBORO COUNTRY CLUB	C4333_1	8	8	8	Hill	Irrigation
"GEORGE W. MCNIEL, ET AL"	C4334_1	1	1	1	Hill	Irrigation
ALPHONS D URBANOVSKY	C4335_1	40	0	0	Hill	Irrigation
FAYE SMITH ROMINE	C4336_1	55	0	0	McLennan	Irrigation
KAYE SMITH BOYD	C4336_2	55	0	0	McLennan	Irrigation
DONALD RISINGER PENSION PLAN	C4337_1	58	0	0	McLennan	Irrigation
"JIM G DOLLINS, SR"	C4338_1	130	0	0	McLennan	Irrigation
B.T. GEORGE, C. WALKER, & J&B ENGLIS	C4339_1	100	0	0	McLennan	Irrigation
WACO	C4340_1	5600	5,600	5,600	McLennan	Municipal
TEXAS UTILITIES ELECTRIC CO	C4342_1	12000	0	0	McLennan	Steam-Electric
TEXAS UTILITIES ELECTRIC CO	C4342_2	15000	0	0	McLennan	Steam-Electric
LOLA ROBINSON	C4344_1	400	400	400	McLennan	Irrigation
LOLA ROBINSON	C4344_2	660	0	0	McLennan	Irrigation
TEXAS UTILITIES ELECTRIC CO	C4345_1	10000	0	0	McLennan	Steam-Electric
TEXAS UTILITIES ELECTRIC CO	C4345_2	21.86	0	0	McLennan	Steam-Electric
W J DUBE	C4346_1	200	0	0	Falls	Irrigation
VANCE DUNNAM JR	C4347_1	12	12	12	McLennan	Irrigation
"JOE RAY HATTER, SR"	C4348_1	70	0	0	McLennan	Irrigation
RDS LAND CO LLC	C4349_1	199	0	0	McLennan	Irrigation
RDS LAND CO LLC	C4349_2	72.77	0	0	McLennan	Irrigation
RDS LAND CO LLC	C4349_3	22.28	0	0	McLennan	Irrigation
JOHN P ESTES ESTATE TRUST ETAL	C4350_1	20	20	20	McLennan	Irrigation
MONT HAMM	C4351_1	160	0	0	Falls	Irrigation
DENNIS L BIRKES ETAL	C4353_1	40	40	40	Falls	Irrigation
JEAN W EPPERSON	C4354_1	50	50	50	Falls	Irrigation
MARLIN	C4355_1	1500	0	0	Falls	Municipal
MARLIN	C4355_2	2000	0	0	Falls	Municipal
MARLIN	C4355_3	1500	0	0	Falls	Municipal
CITY OF MARLIN	C4355_4	2000	0	0	Falls	Manufacturing

TABLE G-2. Summary of Surface Water Availability

MARLIN	C4355_7	1000	1,000	1,000	Falls	Municipal
DAVID L. ROBERTS & WIFE	C4356_1	84	84	84	Falls	Irrigation
JOHN C ISAACS ET AL	C4358_1	991	0	0	Falls	Irrigation
JOHN C ISAACS ET AL	C4359_1	496	0	0	Falls	Irrigation
JOHN C ISAACS ET AL	C4359_2	495	0	0	Falls	Irrigation
ROSEBUD	C4360_1	124	0	0	Falls	Municipal
ROSEBUD	C4360_2	14.59	0	0	Falls	Municipal
ROSEBUD	C4360_3	100	0	0	Falls	Municipal
AGNES FIELD ELIOT	C4361_1	184	0	0	Robertson	Irrigation
DOUGLAS A MCCRARY	C4362_1	363	0	0	Robertson	Irrigation
JOE REISTINO ESTATE	C4363_1	384	0	0	Robertson	Irrigation
JOE REISTINO ESTATE	C4363_2	1068	0	0	Robertson	Irrigation
JOE REISTINO ESTATE	C4363_3	48	0	0	Robertson	Irrigation
CLIFF A SKILES JR	C4364_1	724	0	0	Robertson	Irrigation
CLIFF A SKILES JR	C4364_2	155.39	0	0	Robertson	Irrigation
WESLEY E ANDERSON ET AL	C4365_1	976	0	0	Robertson	Irrigation
ELLEN WIESE BRIEN ET AL	C4366_1	275	0	0	Robertson	Irrigation
ELLEN WIESE BRIEN ET AL	C4366_2	125	0	0	Robertson	Irrigation
GERTRUD PAPP ETAL	C4367_1	145	0	0	Robertson	Irrigation
GLORIA ELY HOLDEN	C4368_1	76	0	0	Milam	Irrigation
GENE W BONORDEN	C4369_1	4	0	0	Milam	Irrigation
ONAH B PENN ETAL	C4370_1	297	0	0	Robertson	Irrigation
SAM F DESTEFANO	C4371_1	410	0	0	Robertson	Irrigation
SAM F DESTEFANO	C4371_2	290	0	0	Robertson	Irrigation
FORBIN INVESTMENTS N V	C4372_1	235	0	0	Brazos	Irrigation
FORBIN INVESTMENTS N V	C4372_2	623.32	0	0	Brazos	Irrigation
FLOYD KEMPENSKI	C4375_1	4	1	1	Robertson	Irrigation
NELSON FAMILY FARMING TRUST	C4376_1	74	0	0	Robertson	Irrigation
GEORGE C GASSEN	C4377_1	20	20	20	Robertson	Irrigation
FIRST NATL BK ABILENE ET AL	C4767_1	60	0	0	Jones	Irrigation
CARR-THOMAS RANCH	C5155_DSCON_12	50	50	50	Palo Pinto	Irrigation
BRAZOS ELECTRIC POWER COOP.	C5155_DSCON_18	3600	3,600	3,600	Palo Pinto	Steam-Electric
ACTON MUD	C5155_DSCON_19	4000	4,000	4,000	Hood	Municipal
PALO PINTO COUNTY-OTHER	C5155_LSCON_0	1000	1,000	1,000	Palo Pinto	Municipal
NORTH RIDGE CORPORATION	C5155_LSCON_11	235	235	235	Palo Pinto	Mining
PALO PINTO COUNTY-OTHER	C5155_LSCON_13	73	73	73	Palo Pinto	Municipal
HILL COUNTRY HARBOR, L.P.	C5155_LSCON_14	250	250	250	Palo Pinto	Irrigation
RANCH OWNER'S ASSOCIATION	C5155_LSCON_15	250	250	250	Palo Pinto	Irrigation
STEPHENS REGIONAL SUD	C5155_LSCON_16	800	800	800	Stephens	Municipal
BASA RESOURCES, INC.	C5155_LSCON_17	1000	1,000	1,000	Stephens	Mining
POSSUM KINGDOM WSC	C5155_LSCON_2	750	750	750	Palo Pinto	Municipal
PALO PINTO COUNTY-OTHER	C5155_LSCON_3	125	125	125	Palo Pinto	Municipal
Texas Parks and Wildlife	C5155_LSCON_4	1200	1,200	1,200	Palo Pinto	Manufacturing
GRAHAM	C5155_LSCON_5	1000	1,000	1,000	Palo Pinto	Municipal
TXU ELECTRIC COMPANY	C5155_LSCON_6	14000	14,000	14,000	Young	Steam-Electric
CITATION OIL & GAS CORP.	C5155_LSCON_9	175	175	175	Stonewall	Mining
WOLF HOLLOW I, L.P.	C5155_SYSCON_14	10000	10,000	10,000	Hood	Manufacturing
ACTON MUD	C5155_SYSCON_2	100	100	100	Hood	Irrigation
Horizon Turf Grass, Inc.	C5155_SYSCON_27	150	150	150	Brazos	Irrigation
ACTON MUD	C5155_SYSCON_3	300	300	300	Hood	Irrigation
BOSQUE GENERATING, L.P.	C5155_SYSCON_34	6500	6,500	0	Bosque	Steam-Electric
BRAZOS ELECTRIC POWER COOP.	C5155_SYSCON_35	8000	8,000	0	Palo Pinto	Steam-Electric
CENTRAL TEXAS WSC	C5155_SYSCON_36	1000	0	0	Bell	Municipal
CLEBURNE	C5155_SYSCON_37	5000	5,000	0	Hill	Municipal
DOG RIDGE WSC	C5155_SYSCON_38	1500	0	0	Bell	Municipal
HARKER HEIGHTS	C5155_SYSCON_39	139	0	0	Bell	Municipal
JOHNSON COUNTY SUD	C5155_SYSCON_4	13210	9,210	13,210	Hood	Municipal
HARKER HEIGHTS	C5155_SYSCON_40	1493	0	0	Bell	Municipal
HORIZON TURF GRASS, INC.	C5155_SYSCON_41	200	200	0	Brazos	Irrigation
KEMPNER WSC	C5155_SYSCON_43	2000	2,000	0	Bell	Municipal
LAMPASAS	C5155_SYSCON_44	2000	2,000	0	Bell	Municipal
SHACKELFORD COUNTY-OTHER	C5155_SYSCON_49	353	353	0	Shackelfor	Municipal
VULCAN CONST. MATERIALS, L.P.	C5155_SYSCON_57	1000	1,000	0	Palo Pinto	Mining
WESTERN COMPANY OF TEXAS INC.	C5155_SYSCON_59	1000	1,000	0	Hill	Mining
TXU Electric, GB	C5155_SYSCON_6	40000	40,000	40,000	Somervell	Steam-Electric
TXU Electric, PK	C5155_SYSCON_8	43447	43,447	43,447	Hood	Steam-Electric
ACTON MUD	C5156_LSCON_1	1000	1,000	1,000	Hood	Municipal
OAK TRAIL SHORES SUBDIVISION	C5156_LSCON_10	600	600	600	Hood	Municipal
ACTON MUD	C5156_LSCON_2	2000	2,000	2,000	Hood	Municipal
Rex R Worrell	C5156_LSCON_3	300	300	300	Hood	Irrigation
LENMO, Inc.	C5156_LSCON_4	2000	2,000	2,000	Hood	Irrigation
GRANBURY	C5156_LSCON_5	10800	10,800	10,800	Hood	Municipal

TABLE G-2. Summary of Surface Water Availability

BLUEGREEN SOUTHWEST ONE, L.P.	C5156_LSCON_6	200	200	200	Hood	Irrigation
KING RANCH TURFGRASS, LP	C5156_LSCON_7A	760	760	760	Hood	Irrigation
HOOD COUNTY-OTHER	C5156_LSCON_8	251	251	251	Hood	Municipal
HOOD COUNTY-OTHER	C5156_LSCON_9	90	90	90	Hood	Municipal
Granbury Recreational Ass., Inc.	C5156_SYSCON_1	50	50	50	Hood	Irrigation
Pecan Plantation Owners Ass.	C5156_SYSCON_12	500	500	500	Hood	Irrigation
Pecan Plantation Owners Ass.	C5156_SYSCON_13	250	250	250	Hood	Irrigation
ROSEBUD	C5156_SYSCON_15	100	100	100	Falls	Municipal
LORENA	C5156_SYSCON_16	1000	1,000	1,000	McLennan	Municipal
MARLIN	C5156_SYSCON_17	1200	1,200	1,200	Falls	Municipal
	C5157_3		448	424		
CLEBURNE	C5157_LSCON_1	4700	4,700	4,700	Johnson	Municipal
HILL COUNTY-OTHER	C5157_LSCON_2	15	15	15	Hill	Municipal
HILL COUNTY-OTHER	C5157_LSCON_3	60	60	60	Hill	Municipal
WHITNEY	C5157_LSCON_4	750	750	750	Hill	Municipal
HILL COUNTY-OTHER	C5158_LSCON_1	150	150	150	Hill	Municipal
AQUILLA WATER SUPPLY	C5158_LSCON_2	5953	5,953	5,953	Hill	Municipal
CLEBURNE	C5158_LSCON_3	5300	5,300	5,300	Johnson	Municipal
UPPER LEON MWD	C5159_LSCON_1	2518	2,890	0	Comanche	Municipal
UPPER LEON MWD	C5159_LSCON_2	202	232	0	Comanche	Municipal
UPPER LEON MWD	C5159_LSCON_3	2888	3,315	0	Comanche	Municipal
North Leon River Irrigation Corp	C5159_LSCON_4	3909	2,909	0	Comanche	Irrigation
Lake Proctor Irrigation Authority	C5159_LSCON_5	2743	3,743	0	Comanche	Irrigation
COMANCHE COUNTY-OTHER	C5159_LSCON_6	0.6	1	0	Comanche	Municipal
TEMPLE	C5160_DSCON_11	7397	0	0	Bell	Municipal
TEMPLE	C5160_DSCON_12	14475	0	0	Bell	Municipal
WILDFLOWER COUNTRY CLUB, INC.	C5160_DSCON_13	200	0	0	Bell	Irrigation
JARRELL-SCHWERTNER WSC	C5160_DSCON_18	1000	0	0	Bell	Municipal
TEMPLE	C5160_DSCON_22	1956	0	0	Bell	Municipal
BLUEBONNET WSC	C5160_LSCON_1	261	0	0	Bell	Municipal
MCGREGOR	C5160_LSCON_10	810	0	0	Bell	Municipal
439 WSC	C5160_LSCON_14	611	0	0	Bell	Municipal
GATESVILLE	C5160_LSCON_15	450	0	0	Bell	Municipal
BELL COUNTY WCID #1	C5160_LSCON_16	13000	0	0	Bell	Municipal
CORYELL COUNTY-OTHER	C5160_LSCON_17	200	0	0	Coryell	Municipal
KEMPNER WSC	C5160_LSCON_19	766	0	0	Bell	Municipal
GATESVILLE	C5160_LSCON_2	4000	0	0	Bell	Municipal
BELL COUNTY-OTHER	C5160_LSCON_20	25	0	0	Bell	Municipal
MOFFAT WSC	C5160_LSCON_21	355	0	0	Bell	Municipal
CORYELL COUNTY-OTHER	C5160_LSCON_23	400	0	0	Coryell	Municipal
GATESVILLE	C5160_LSCON_3	248	0	0	Bell	Municipal
GATESVILLE	C5160_LSCON_4	1200	0	0	Bell	Municipal
BELL COUNTY WCID #1	C5160_LSCON_5	49509	0	0	Bell	Municipal
BELTON	C5160_LSCON_6	2500	0	0	Bell	Municipal
BLUEBONNET WSC	C5160_LSCON_7	737	0	0	Bell	Municipal
BLUEBONNET WSC	C5160_LSCON_8	2157	0	0	Bell	Municipal
BLUEBONNET WSC	C5160_LSCON_9	668	0	0	Bell	Municipal
CORYELL CITY WATER SUPPLY DISTRICT	C5160_SYSCON_18	300	300	0	Bell	Municipal
439 WSC	C5160_SYSCON_19	403	560	0	Bell	Municipal
Country Harvest	C5161_DSCON_15	8	0	8	Bell	Irrigation
Jerry Glaze	C5161_LSCON_1	100	0	100	Bell	Irrigation
KEMPNER WSC	C5161_LSCON_10	192	0	0	Bell	Municipal
KEMPNER WSC	C5161_LSCON_11	1016	0	0	Bell	Municipal
JONAH WATER SUD	C5161_LSCON_12	1200	0	0	Bell	Municipal
WILLIAMSON COUNTY-OTHER	C5161_LSCON_13	310	0	0	Williamson	Municipal
BRUSHY CREEK MUD	C5161_LSCON_14	87	0	0	Bell	Municipal
BELL COUNTY-OTHER	C5161_LSCON_17	1.5	0	0	Bell	Municipal
KEMPNER WSC	C5161_LSCON_18	1750	0	0	Bell	Municipal
SALADO WSC	C5161_LSCON_2	1600	0	1,600	Bell	Municipal
CENTRAL TEXAS WSC	C5161_LSCON_3	6950	0	6,253	Bell	Municipal
CENTRAL TEXAS WSC	C5161_LSCON_4	3100	0	0	Bell	Municipal
CENTRAL TEXAS WSC	C5161_LSCON_5	100	0	0	Bell	Municipal
CENTRAL TEXAS WSC	C5161_LSCON_6	895	0	0	Bell	Municipal
LAMPASAS	C5161_LSCON_7	84	0	0	Bell	Municipal
LAMPASAS	C5161_LSCON_8	42	0	0	Bell	Municipal
ROUND ROCK	C5161_SYSCON_21	18134	0	3,173	Williamson	Municipal
GEORGETOWN	C5161_SYSCON_22	10000	0	0	Williamson	Municipal
GEORGETOWN	C5161_SYSCON_25	6720	0	0	Williamson	Municipal
CHISHOLM TRAIL SUD	C5162_DSCON1	2200	0	0	Williamson	Municipal
GEORGETOWN	C5162_DSCON2	10000	0	0	Williamson	Municipal
LIBERTY HILL	C5162_LSCON_11	600	0	600	Williamson	Municipal
JONAH WATER SUD	C5162_SYSCON_20	1239	0	1,239	Williamson	Municipal

TABLE G-2. Summary of Surface Water Availability

CHISHOLM TRAIL SUD	C5162_SYSCON_23	4760	0	0	Williamson	Municipal
ROUND ROCK	C5162_SYSCON_24	6720	0	0	Williamson	Municipal
Del Webb Sun City Georgetown	C5163_LSCON_1	15	15	15	Williamson	Irrigation
TAYLOR	C5163_LSCON_2	13000	13,000	3,474	Williamson	Municipal
ALCOA	C5163_SYSCON_26	5000	5,000	5,000	Milam	Steam-Electric
BRENHAM	C5164_LSCON_1	4200	4,200	4,200	Washingto	Municipal
NOT A WUG	C5164_LSCON_2	0.2	0	0	Burleson	Municipal
WELLBORN SUD	C5165_DSCON_5	4000	4,000	0	Brazos	Municipal
Texas Municipal Power Agency NA	C5165_DSCON_6	3600	3,600	0	Grimes	Steam-Electric
LIMESTONE COUNTY-OTHER	C5165_LSCON_1	200	200	200	Limestone	Municipal
HILL COUNTY-IRRIGATION	C5165_LSCON_10	1000	1,000	1,000	Hill	Irrigation
TXU Electric Company	C5165_LSCON_2	25000	25,000	2,909	Robertson	Steam-Electric
NRG Texas, LLC	C5165_LSCON_3	14000	14,000	0	Limestone	Steam-Electric
NRG Texas, LLC	C5165_LSCON_4	7837	7,837	0	Limestone	Steam-Electric
OOR	C5171_3	19500	0	0	Limestone	Steam-Electric
OOR	C5171_4	33750	0	0	Limestone	Municipal
TEXAS UTILITIES ELECTRIC CO	C5268_1	85	85	85	Brazos	Steam-Electric
THE TRAVELERS INSURANCE CO	C5269_1	535	0	0	Brazos	Irrigation
R O LAWRENCE III ET UX	C5269_2	400	0	0	Brazos	Irrigation
TEXAS A&M UNIVERSITY	C5271_1	500	0	0	Burleson	Irrigation
TEXAS A&M UNIVERSITY	C5271_2	67.25	0	0	Burleson	Irrigation
TEXAS A&M UNIVERSITY	C5271_3	700	0	0	Burleson	Irrigation
TEXAS A&M UNIVERSITY	C5271_4	159.98	0	0	Burleson	Irrigation
TEXAS A&M UNIVERSITY	C5271_5	420	0	0	Burleson	Manufacturing
ALUMINUM CO OF AMERICA	C5272_1	14000	14,000	14,000	Milam	Steam-Electric
ROCKDALE COUNTRY CLUB	C5273_1	1	0	0	Milam	Irrigation
GEORGE W SPRANKLE	C5276_1	2.3	0	0	Washingto	Irrigation
SEALY & ROBERT HUTCHINGS	C5284_1	30	0	0	Burleson	Irrigation
WILLIAM J TERRELL ET AL	C5285_1	752	0	0	Washingto	Irrigation
JOYCE ANN FREDE	C5286_1	218	0	0	Grimes	Irrigation
JOYCE ANN FREDE	C5286_2	232	0	0	Grimes	Irrigation
JOYCE ANN FREDE	C5286_3	259	0	0	Brazos	Irrigation
WILLIE BALDOBINO ET UX	C5286_4	258.5	0	0	Brazos	Irrigation
BISTONE MWSD	C5287_1	2165	0	0	Limestone	Municipal
BISTONE MWSD	C5287_2	722	0	0	Limestone	Municipal
BISTONE MWSD	C5287_3	65	0	0	Limestone	Manufacturing
TEXAS PARKS & WILDLIFE DEPT	C5288_1	6	6	6	Limestone	Irrigation
GROESBECK	C5289_1	2500	0	0	Limestone	Municipal
ERNI LUNA ET AL	C5290_1	8	8	8	Limestone	Irrigation
TEXAS UTILITIES ELECTRIC CO	C5298_1	13200	0	0	Robertson	Steam-Electric
0	C5307_4	13714.57	0	13,742	Grimes	GRI
BRIARCREST COUNTRY CLUB INC	C5308_1	12	0	0	Brazos	Irrigation
TEXAS MUNICIPAL POWER AGENCY	C5311_1	9740	9,740	9,740	Grimes	Steam-Electric
TEXAS MUNICIPAL POWER AGENCY	C5312_1	200	0	0	Grimes	Mining
CLIFFORD A SKILES JR ET UX	C5470_1	514	514	514	Robertson	Irrigation
ROBERT W NORRIS	P3761_1	400	0	0	Milam	Irrigation
ELLIS G & JEAN M MARSHALL	P3762_1	100	0	0	Bell	Irrigation
PAUL J MEYER ET AL	P3763_1	361	0	0	Bell	Irrigation
0	P3809_4	230	0	0	Bosque	Irrigation
WALNUT CR FARMS OF GRANBURY	P3851_1	17	0	0	Hood	Irrigation
HOLY LAND & CATTLE	P3936_1	2600	0	0	McLennan	Irrigation
KENNETH & BETTY YVON LESLEY	P3939_1	98	98	98	Erath	Irrigation
THOMAS E LOVELACE ET AL	P4000_1	40	0	0	Palo Pinto	Irrigation
MIKE & ITHA LYNNE BERRY	P4003_1	29.7	0	0	Palo Pinto	Irrigation
ROBERT HARRY MOORE	P4011_1	905	0	0	Washingto	Irrigation
MELANIE MOORE KOLBY ET AL	P4011_2	498	0	0	Washingto	Irrigation
BILLY G. CURRY ET AL	P4012_1	440	0	0	Bell	Irrigation
ROBERT L MACHA ET AL	P4013_1	1200	0	0	Falls	Irrigation
MARY D WALSH	P4014_1	1851	0	0	Falls	Irrigation
CALVIN KRAEMER ET AL	P4015_1	350	0	0	Milam	Irrigation
CHAMBERLIN FAMILY TRUST	P4015_2	350	0	0	Milam	Irrigation
TOM J. MOORE FARMS	P4016_2	4450	0	0	Brazos	Irrigation
TOM J. MOORE FARMS	P4016_3	990	0	0	Brazos	Irrigation
ROBERT T & GERALDINE MOORE	P4017_1	962	0	0	Brazos	Irrigation
DON WEINACHT ET AL	P4023_1	600	0	0	Eastland	Irrigation
LVGC INC	P4024_1	300	0	0	Bell	Irrigation
T W WHALEY JR	P4042_1	700	0	0	Falls	Irrigation
N S WATERMAN JR ET UX	P4063_1	270	0	0	Falls	Irrigation
N S WATERMAN JR ET UX	P4063_2	177.87	0	0	Falls	Irrigation
JAMES H JONES ET UX	P4076_1	250	0	0	Hood	Irrigation
JOHN R WOODALL ET AL	P4078_1	825	0	0	Hood	Irrigation
GATHAN REISTINO	P4080_1	1500	0	0	Robertson	Irrigation

TABLE G-2. Summary of Surface Water Availability

SIDNEY KACIR	P4095_1	240	0	0	Bell	Irrigation
SIDNEY KACIR	P4095_2	308	0	0	Bell	Irrigation
BETTY KACIR WHEELER	P4109_1	400	0	0	Milam	Irrigation
BRUCE E TODD	P4124_1	225	0	0	Erath	Irrigation
BRUCE E TODD	P4124_2	40.45	0	0	Erath	Irrigation
FLOYD GUNN	P4128_1	102	0	0	Nolan	Irrigation
CRAWFORD	P4135_1	55	0	0	McLennan	Municipal
JOHN W & JANIE NIGLIAZZO	P4145_1	448	0	0	Taylor	Irrigation
SAMUEL W & MARGARET JONES	P4166_1	120	0	0	Williamson	Irrigation
CARL MOODY ET AL	P4212_1	300	0	0	Eastland	Irrigation
THE SILVER QUAIL COMPANY	P4218_1	172	0	0	Bell	Irrigation
CLEBURNE	P4258_1	720	0	0	Johnson	Municipal
ABILENE	P4266_1	4330	0	0	Jones	Irrigation
HILLIARD RANCHES INC	P4279_1	600	0	0	Milam	Irrigation
WARRENS TURF NURSERY INC	P4279_2	150	0	0	Milam	Irrigation
MART	P5000_1	500	0	0	McLennan	Municipal
HAYNES CORPORATION	P5076_1	25	0	0	Bell	Irrigation
DAVID B & AUDREY HATCHER	P5077_1	600	0	0	Milam	Irrigation
ROBINSON	P5085_1	6021	6,021	6,021	McLennan	Municipal
WACO	P5094_1	20089	0	0	McLennan	Municipal
WACO	P5094_2	688	0	0	McLennan	Municipal
TEXAS-NEW MEXICO POWER CO	P5148_1	458	0	0	Robertson	Steam-Electric
CITY OF ASPERMONT	P5162_1	8	8	8	Stonewall	Irrigation
PHILLIPS PETROLEUM CO	P5242_1	1552	0	0	Stonewall	Mining
CITATION 1994 INVEST LTD PART	P5282_1	235	0	0	Stonewall	Mining
TEXAS DEPT OF CRIMINAL JUSTICE	P5290_1	250	0	0	Grimes	Irrigation
TEXAS DEPT OF CRIMINAL JUSTICE	P5290_2	598	0	0	Grimes	Irrigation
PEBBLE CREEK COUNTRY CLUB INC	P5329_1	325	0	0	Brazos	Irrigation
PEBBLE CREEK COUNTRY CLUB INC	P5329_2	269.61	0	0	Brazos	Irrigation
CITY OF TEMPLE	P5330_1	187	0	0	Bell	Irrigation
TEXAS MUNICIPAL POWER AGENCY	P5354_1	200	0	0	Grimes	Manufacturing
NANTUCKET LTD	P5385_1	140	0	0	Brazos	D&L
PLAINS PETROLEUM OPERATING CO	P5435_1	235	0	0	Knox	Mining
TEXAS MUNICIPAL POWER AGENCY	P5458_1	100	100	100	Grimes	Manufacturing
TEXAS MUNICIPAL POWER AGENCY	P5473_1	10	0	0	Grimes	Manufacturing
DEL WEBB TEXAS L P	P5533_2	26.1	0	0	Williamson	Irrigation
CLIFTON	P5551_4	2004	0	0	Bosque	Municipal
STEWART & MARY THOMPSON &TRUST	P5566_1	250	0	0	Grimes	Irrigation
DAVID MOODY TRUSTEE ET AL	P5570_1	365	0	0	Brazos	Irrigation
WALTER EXPLORATION INC	P5692_1	67	0	0	Stonewall	Mining
SOMERVELL COUNTY-OTHER	P5744_1	7115.82	0	0	Somervell	Municipal
SOMERVELL COUNTY-OTHER	P5744_2	2000	2,000	2,000	Somervell	Municipal
ALCOA	P5803_1	650	650	650	Milam	Steam-Electric
NOT A WUG	P5899_2	1336	0	0	Bosque	Municipal

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Appendix H
Economic Impacts of Not Meeting Needs

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Socioeconomic Impacts of Projected Water Shortages for the Region G Regional Water Planning Area

Prepared in Support of the 2016 Region G Regional Water Plan

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Executive Summary

Evaluating the social and economic impacts of not meeting identified water needs is a required part of the regional water planning process. The Texas Water Development Board (TWDB) estimates those impacts for regional water planning groups, and summarizes the impacts in the state water plan. The analysis presented is for the Region G Regional Water Planning Group.

Based on projected water demands and existing water supplies, the Region G planning group identified water needs (potential shortages) that would occur within its region under a repeat of the drought of record for six water use categories. The TWDB then estimated the socioeconomic impacts of those needs—if they are not met—for each water use category and as an aggregate for the region.

The analysis was performed using an economic modeling software package, IMPLAN (Impact for Planning Analysis), as well as other economic analysis techniques, and represents a snapshot of socioeconomic impacts that may occur during a single year during a drought of record within each of the planning decades. For each water use category, the evaluation focused on estimating income losses and job losses. The income losses represent an approximation of gross domestic product (GDP) that would be foregone if water needs are not met.

The analysis also provides estimates of financial transfer impacts, which include tax losses (state, local, and utility tax collections); water trucking costs; and utility revenue losses. In addition, social impacts were estimated, encompassing lost consumer surplus (a welfare economics measure of consumer wellbeing); as well as population and school enrollment losses.

It is estimated that not meeting the identified water needs in Region G would result in an annually combined lost income impact of approximately $7 billion in 2020, increasing to $16 billion in 2070 (Table ES-1). In 2020, the region would lose approximately 45,000 jobs, and by 2070 job losses would increase to approximately 146,000.

All impact estimates are in year 2013 dollars and were calculated using a variety of data sources and tools including the use of a region-specific IMPLAN model, data from the TWDB annual water use estimates, the U.S. Census Bureau, Texas Agricultural Statistics Service, and Texas Municipal League.

Table ES-1: Region G Socioeconomic Impact Summary

Regional Economic Impacts	2020	2030	2040	2050	2060	2070
Income losses ($ millions)*	$7,095	$8,366	$8,556	$9,571	$12,397	$16,054
Job losses	45,029	51,678	57,465	66,771	101,683	146,122
Financial Transfer Impacts	**2020**	**2030**	**2040**	**2050**	**2060**	**2070**
Tax losses on production and imports ($ millions)*	$655	$759	$729	$779	$1,003	$1,299
Water trucking costs ($ millions)*	$1	$1	$1	$3	$2	$27
Utility revenue losses ($ millions)*	$91	$180	$293	$423	$515	$725
Utility tax revenue losses ($ millions)*	$1	$3	$5	$7	$9	$12
Social Impacts	**2020**	**2030**	**2040**	**2050**	**2060**	**2070**
Consumer surplus losses ($ millions)*	$41	$79	$195	$378	$691	$1,100
Population losses	8,267	9,488	10,551	12,259	18,669	26,828
School enrollment losses	1,529	1,755	1,952	2,268	3,454	4,963

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

1 Introduction

Water shortages during a repeat of the drought of record would likely curtail or eliminate certain economic activity in businesses and industries that rely heavily on water. Insufficient water supplies could not only have an immediate and real impact on existing businesses and industry, but they could also adversely and chronically affect economic development in Texas. From a social perspective, water supply reliability is critical as well. Shortages could disrupt activity in homes, schools and government and could adversely affect public health and safety. For these reasons, it is important to evaluate and understand how water supply shortages during drought could impact communities throughout the state.

Administrative rules (31 Texas Administrative Code §357.33 (c)) require that regional water planning groups evaluate the social and economic impacts of not meeting water needs as part of the regional water planning process, and rules direct the TWDB staff to provide technical assistance upon request. Staff of the TWDB's Water Use, Projections, & Planning Division designed and conducted this analysis in support of the Region G Regional Water Planning Group.

This document summarizes the results of the analysis and discusses the methodology used to generate the results. Section 1 summarizes the water needs calculation performed by the TWDB based on the regional water planning group's data. Section 2 describes the methodology for the impact assessment and discusses approaches and assumptions specific to each water use category (i.e., irrigation, livestock, mining, steam-electric, municipal and manufacturing). Section 3 presents the results for each water use category with results summarized for the region as a whole. Appendix A presents details on the socioeconomic impacts by county.

1.1 Identified Regional Water Needs (Potential Shortages)

As part of the regional water planning process, the TWDB adopted water demand projections for each water user group (WUG) with input from the planning groups. WUGs are composed of cities, utilities, combined rural areas (designated as county-other), and the county-wide water use of irrigation, livestock, manufacturing, mining and steam-electric power. The demands are then compared to the existing water supplies of each WUG to determine potential shortages, or needs, by decade. Existing water supplies are legally and physically accessible for immediate use in the event of drought. Projected water demands and existing supplies are compared to identify either a surplus or a need for each WUG.

Table 1-1 summarizes the region's identified water needs in the event of a repeat of drought of the record. Demand management, such as conservation, or the development of new infrastructure to increase supplies are water management strategies that may be recommended by the planning group to meet those needs. This analysis assumes that no strategies are implemented, and that the identified needs correspond to future water shortages. Note that projected water needs generally increase over time, primarily due to anticipated population and economic growth. To provide a general sense of proportion, total projected needs as an overall percentage of total demand by water use category are presented in aggregate in Table 1-1. Projected needs for individual water user groups within the aggregate vary greatly, and may reach 100% for a given WUG and water use category. Detailed water needs by WUG and county appear in Chapter 4 of the 2016 Region G Regional Water Plan.

Table 1-1 Regional Water Needs Summary by Water Use Category

Water Use Category		2020	2030	2040	2050	2060	2070
Irrigation	Water Needs (acre-feet per year)	83,282	83,309	83,494	77,474	70,276	67,070
	% of the category's total water demand	29%	29%	30%	29%	27%	26%
Livestock	Water Needs (acre-feet per year)	-	-	-	-	-	-
	% of the category's total water demand	-	-	-	-	-	-
Manufacturing	Water Needs (acre-feet per year)	7,656	7,812	9,199	10,350	11,619	12,898
	% of the category's total water demand	35%	32%	34%	35%	36%	37%
Mining	Water Needs (acre-feet per year)	41,731	50,127	50,494	53,675	57,802	64,121
	% of the category's total water demand	68%	71%	73%	76%	77%	79%
Municipal	Water Needs (acre-feet per year)	32,144	65,816	106,036	153,098	205,731	262,429
	% of the category's total water demand	8%	15%	21%	27%	33%	38%
Steam-electric power	Water Needs (acre-feet per year)	70,834	88,264	99,300	128,694	144,204	162,658
	% of the category's total water demand	30%	32%	34%	40%	42%	45%
Total water needs (acre-feet per year)		**235,647**	**295,328**	**348,523**	**423,291**	**489,632**	**569,176**

2 Economic Impact Assessment Methodology Summary

This portion of the report provides a summary of the methodology used to estimate the potential economic impacts of future water shortages. The general approach employed in the analysis was to obtain estimates for income and job losses on the smallest geographic level that the available data would support, tie those values to their accompanying historic water use estimate (volume), and thereby determine a maximum impact per acre-foot of shortage for each of the socioeconomic measures. The calculations of economic impacts were based on the overall composition of the economy using many underlying economic "sectors." Sectors in this analysis refer to one or more of the 440 specific production sectors of the economy designated within IMPLAN (Impact for Planning Analysis), the economic impact modeling software used for this assessment. Economic impacts within this report are

estimated for approximately 310 of those sectors, with the focus on the more water intense production sectors. The economic impacts for a single water use category consist of an aggregation of impacts to multiple related economic sectors.

2.1 Impact Assessment Measures

A required component of the regional and state water plans is to estimate the potential economic impacts of shortages due to a drought of record. Consistent with previous water plans, several key variables were estimated and are described in Table 2-1.

Table 2-1 Socioeconomic Impact Analysis Measures

Regional Economic Impacts	**Description**
Income losses - value added	The value of output less the value of intermediate consumption; it is a measure of the contribution to GDP made by an individual producer, industry, sector, or group of sectors within a year. For a shortage, value added is a measure of the income losses to the region, county, or WUG and includes the direct, indirect and induced monetary impacts on the region.
Income losses - electrical power purchase costs	Proxy for income loss in the form of additional costs of power as a result of impacts of water shortages.
Job losses	Number of part-time and full-time jobs lost due to the shortage.
Financial Transfer Impacts	**Description**
Tax losses on production and imports	Sales and excise taxes (not collected due to the shortage), customs duties, property taxes, motor vehicle licenses, severance taxes, other taxes, and special assessments less subsidies.
Water trucking costs	Estimate for shipping potable water.
Utility revenue losses	Foregone utility income due to not selling as much water.
Utility tax revenue losses	Foregone miscellaneous gross receipts tax collections.
Social Impacts	**Description**
Consumer surplus losses	A welfare measure of the lost value to consumers accompanying less water use.
Population losses	Population losses accompanying job losses.
School enrollment losses	School enrollment losses (K-12) accompanying job losses.

2.1.1 Regional Economic Impacts

Two key measures were included within the regional economic impacts classification: income losses and job losses. Income losses presented consist of the sum of value added losses and additional purchase costs of electrical power. Job losses are also presented as a primary economic impact measure.

Income Losses - Value Added Losses

Value added is the value of total output less the value of the intermediate inputs also used in production of the final product. Value added is similar to Gross Domestic Product (GDP), a familiar measure of the productivity of an economy. The loss of value added due to water shortages was estimated by input-output analysis using the IMPLAN software package, and includes the direct, indirect, and induced monetary impacts on the region.

Income Losses - Electric Power Purchase Costs

The electrical power grid and market within the state is a complex interconnected system. The industry response to water shortages, and the resulting impact on the region, are not easily modeled using traditional input/output impact analysis and the IMPLAN model. Adverse impacts on the region will occur, and were represented in this analysis by the additional costs associated with power purchases from other generating plants within the region or state. Consequently, the analysis employed additional power purchase costs as a proxy for the value added impacts for that water use category, and these are included as a portion of the overall income impact for completeness.

For the purpose of this analysis, it was assumed that power companies with insufficient water will be forced to purchase power on the electrical market at a projected higher rate of 5.60 cents per kilowatt hour. This rate is based upon the average day-ahead market purchase price of electricity in Texas from the recent drought period in 2011.

Job Losses

The number of jobs lost due to the economic impact was estimated using IMPLAN output associated with the water use categories noted in Table 1-1. Because of the difficulty in predicting outcomes and a lack of relevant data, job loss estimates were not calculated for the steam-electric power production or for certain municipal water use categories.

2.1.2 Financial Transfer Impacts

Several of the impact measures estimated within the analysis are presented as supplemental information, providing additional detail concerning potential impacts on a sub-portion of the economy or government. Measures included in this category include lost tax collections (on production and imports), trucking costs for imported water, declines in utility revenues, and declines in utility tax revenue collected by the state. Many of these measures are not solely adverse, with some having both positive and negative impacts. For example, cities and residents would suffer if forced to pay large costs for trucking in potable water. Trucking firms, conversely, would benefit from the transaction. Additional detail for each of these measures follows.

Tax Losses on Production and Imports

Reduced production of goods and services accompanying water shortages adversely impacts the collection of taxes by state and local government. The regional IMPLAN model was used to estimate reduced tax collections associated with the reduced output in the economy.

Water Trucking Costs

In instances where water shortages for a municipal water user group were estimated to be 80 percent or more of water demands, it was assumed that water would be trucked in to support basic consumption and sanitation needs. For water shortages of 80 percent or greater, a fixed cost of $20,000 per acre-foot of water was calculated and presented as an economic cost. This water trucking cost was applied for both the residential and non-residential portions of municipal water needs and only impacted a small number of WUGs statewide.

Utility Revenue Losses

Lost utility income was calculated as the price of water service multiplied by the quantity of water not sold during a drought shortage. Such estimates resulted from city-specific pricing data for both water and wastewater. These water rates were applied to the potential water shortage to determine estimates of lost utility revenue as water providers sold less water during the drought due to restricted supplies.

Utility Tax Losses

Foregone utility tax losses included estimates of uncollected miscellaneous gross receipts taxes. Reduced water sales reduce the amount of utility tax that would be collected by the State of Texas for water and wastewater service sales.

2.1.3 Social Impacts

Consumer Surplus Losses of Municipal Water Users

Consumer surplus loss is a measure of impact to the wellbeing of municipal water users when their water use is restricted. Consumer surplus is the difference between how much a consumer is willing and able to pay for the commodity (i.e., water) and how much they actually have to pay. The difference is a benefit to the consumer's wellbeing since they do not have to pay as much for the commodity as they would be willing to pay. However, consumer's access to that water may be limited, and the associated consumer surplus loss is an estimate of the equivalent monetary value of the negative impact to the consumer's wellbeing, for example, associated with a diminished quality of their landscape (i.e., outdoor use). Lost consumer surplus estimates for reduced outdoor and indoor use, as well as residential and commercial/institutional demands, were included in this analysis. Consumer surplus is an attempt to measure effects on wellbeing by monetizing those effects; therefore, these values should not be added to the other monetary impacts estimated in the analysis.

Lost consumer surplus estimates varied widely by location and type. For a 50 percent shortage, the estimated statewide consumer surplus values ranged from $55 to $2,500 per household (residential use), and from $270 to $17,400 per firm (non-residential).

Population and School Enrollment Losses

Population losses due to water shortages, as well as the related loss of school enrollment, were based upon the job loss estimates and upon a recent study of job layoffs and the resulting adjustment of the labor market, including the change in population.[1] The study utilized Bureau of Labor Statistics data regarding layoffs between 1996 and 2013, as well as Internal Revenue Service data regarding migration, to model an estimate of the change in the population as the result of a job layoff event. Layoffs impact both out-migration, as well as in-migration into an area, both of which can negatively affect the population of an area. In addition, the study found that a majority of those who did move following a layoff moved to another labor market rather than an adjacent county. Based on this study, a simplified ratio of job and net population losses was calculated for the state as a whole: for every 100 jobs lost, 18 people were assumed to move out of the area. School enrollment losses were estimated as a proportion of the population lost.

2.2 Analysis Context

The context of the economic impact analysis involves situations where there are physical shortages of surface or groundwater due to drought of record conditions. Anticipated shortages may be nonexistent in earlier decades of the planning horizon, yet population growth or greater industrial, agricultural or other sector demands in later decades may result in greater overall demand, exceeding the existing supplies. Estimated socioeconomic impacts measure what would happen if water user groups experience water shortages for a period of one year. Actual socioeconomic impacts would likely become larger as drought of record conditions persist for periods greater than a single year.

2.2.1 IMPLAN Model and Data

Input-Output analysis using the IMPLAN (Impact for Planning Analysis) software package was the primary means of estimating value added, jobs, and taxes. This analysis employed county and regional level models to determine key impacts. IMPLAN is an economic impact model, originally developed by the U.S. Forestry Service in the 1970's to model economic activity at varying geographic levels. The model is currently maintained by the Minnesota IMPLAN Group (MIG Inc.) which collects and sells county and state specific data and software. The year 2011 version of IMPLAN, employing data for all 254 Texas counties, was used to provide estimates of value added, jobs, and taxes on production for the economic sectors associated with the water user groups examined in the study. IMPLAN uses 440 sector-specific Industry Codes, and those that rely on water as a primary input were assigned to their relevant planning water user categories (manufacturing, mining, irrigation, etc.). Estimates of value added for a water use category were obtained by summing value added estimates across the relevant IMPLAN sectors

[1] Foote, Andrew, Grosz, Michel, Stevens, Ann. "Locate Your Nearest Exit: Mass Layoffs and Local Labor Market Response." University of California, Davis. April 2015. http://paa2015.princeton.edu/uploads/150194

associated with that water use category. Similar calculations were performed for the job and tax losses on production and import impact estimates.

Note that the value added estimates, as well as the job and tax estimates from IMPLAN, include three components:

- *Direct effects* representing the initial change in the industry analyzed;
- *Indirect effects* that are changes in inter-industry transactions as supplying industries respond to reduced demands from the directly affected industries; and,
- *Induced effects* that reflect changes in local spending that result from reduced household income among employees in the directly and indirectly affected industry sectors.

2.2.2 Elasticity of Economic Impacts

The economic impact of a water need is based on the relative size of the water need to the water demand for each water user group (Figure 2-1). Smaller water shortages, for example, less than 5 percent, were anticipated to result in no initial negative economic impact because water users are assumed to have a certain amount of flexibility in dealing with small shortages. As a water shortage deepens, however, such flexibility lessens and results in actual and increasing economic losses, eventually reaching a representative maximum impact estimate per unit volume of water. To account for such ability to adjust, an elasticity adjustment function was used in estimating impacts for several of the measures. Figure 2-1 illustrates the general relationship for the adjustment functions. Negative impacts are assumed to begin accruing when the shortage percentage reaches the lower bound b1 (10 percent in Figure 2-1), with impacts then increasing linearly up to the 100 percent impact level (per unit volume) once the upper bound for adjustment reaches the b2 level shortage (50 percent in Figure 2-1 example).

Initially, the combined total value of the three value added components (direct, indirect, and induced) was calculated and then converted into a per acre-foot economic value based on historical TWDB water use estimates within each particular water use category. As an example, if the total, annual value added for livestock in the region was $2 million and the reported annual volume of water used in that industry was 10,000 acre-feet, the estimated economic value per acre-foot of water shortage would be $200 per acre-foot. Negative economic impacts of shortages were then estimated using this value as the maximum impact estimate ($200 per acre-foot in the example) applied to the anticipated shortage volume in acre-feet and adjusted by the economic impact elasticity function. This adjustment varied with the severity as percentage of water demand of the anticipated shortage. If one employed the sample elasticity function shown in Figure 2-1, a 30% shortage in the water use category would imply an economic impact estimate of 50% of the original $200 per acre-foot impact value (i.e., $100 per acre-foot).

Such adjustments were not required in estimating consumer surplus, nor for the estimates of utility revenue losses or utility tax losses. Estimates of lost consumer surplus relied on city-specific demand curves with the specific lost consumer surplus estimate calculated based on the relative percentage of the city's water shortage. Estimated changes in population as well as changes in school enrollment were indirectly related to the elasticity of job losses.

Assumed values for the bounds b1 and b2 varied with water use category under examination and are presented in Table 2-2.

Figure 2-1 Example Economic Impact Elasticity Function (as applied to a single water user's shortage)

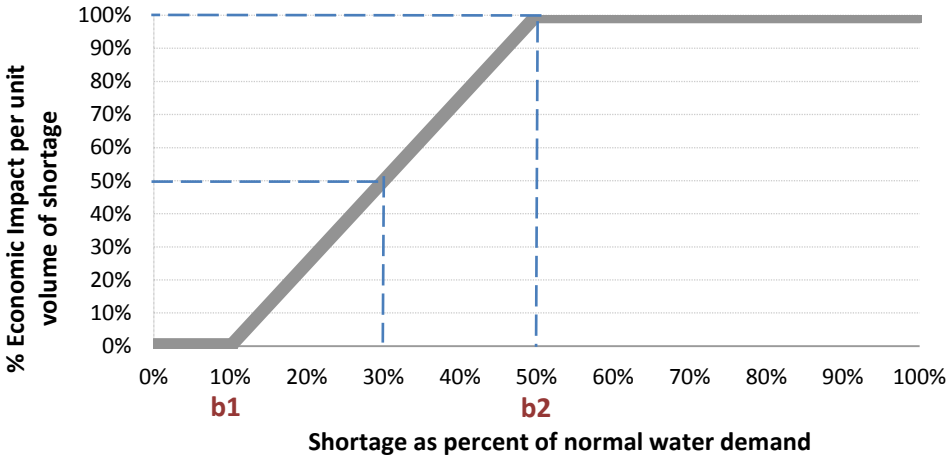

Table 2-2 Economic Impact Elasticity Function Lower and Upper Bounds

Water Use Category	Lower Bound (b1)	Upper Bound (b2)
Irrigation	**5%**	**50%**
Livestock	**5%**	**10%**
Manufacturing	**10%**	**50%**
Mining	**10%**	**50%**
Municipal (non-residential water intensive)	**50%**	**80%**
Steam-electric power	**20%**	**70%**

2.3 Analysis Assumptions and Limitations

Modeling of complex systems requires making assumptions and accepting limitations. This is particularly true when attempting to estimate a wide variety of economic impacts over a large geographic area and into future decades. Some of the key assumptions and limitations of the methodology include:

1. The foundation for estimating socioeconomic impacts of water shortages resulting from a drought are the water needs (potential shortages) that were identified as part of the regional water planning process. These needs have some uncertainty associated with them, but serve as a reasonable basis for evaluating potential economic impacts of a drought of record event.

2. All estimated socioeconomic impacts are snapshot estimates of impacts for years in which water needs were identified (i.e., 2020, 2030, 2040, 2050, 2060, and 2070). The estimates are independent and distinct "what if" scenarios for each particular year, and water shortages are assumed to be temporary events resulting from severe drought conditions. The evaluation assumed that no recommended water management strategies are implemented. In other words, growth occurs, future shocks are imposed on an economy at 10-year intervals, and the resulting impacts are estimated. Note that the estimates presented were not cumulative (i.e., summing up expected impacts from today up to the decade noted), but were simply an estimate of the magnitude of annual socioeconomic impacts should a drought of record occur in each particular decade based on anticipated supplies and demands for that same decade.

3. Input-output models such as IMPLAN rely on a static profile of the structure of the economy as it appears today. This presumes that the relative contributions of all sectors of the economy would remain the same, regardless of changes in technology, supplies of limited resources, and other structural changes to the economy that may occur into the future. This was a significant assumption and simplification considering the 50-year time period examined in this analysis. To presume an alternative future economic makeup, however, would entail positing many other major assumptions that would very likely generate as much or more error.

4. This analysis is not a cost-benefit analysis. That approach to evaluating the economic feasibility of a specific policy or project employs discounting future benefits and costs to their present value dollars using some assumed discount rate. The methodology employed in this effort to estimate the economic impacts of future water shortages did not use any discounting procedures to weigh future costs differently through time.

5. Monetary figures are reported in constant year 2013 dollars.

6. Impacts are annual estimates. The estimated economic model does not reflect the full extent of impacts that might occur as a result of persistent water shortages occurring over an extended duration. The drought of record in most regions of Texas lasted several years.

7. Value added estimates are the primary estimate of the economic impacts within this report. One may be tempted to add consumer surplus impacts to obtain an estimate of total adverse economic impacts to the region, but the consumer surplus measure represents the change to the wellbeing of households (and other water users), not an actual change in the flow of dollars through the economy. The two categories (value added and consumer surplus) are both valid impacts but should not be summed.

8. The value added, jobs, and taxes on production and import impacts include the direct, indirect and induced effects described in Section 2.2.1. Population and school enrollment losses also indirectly include such effects as they are based on the associated losses in employment. The remaining measures (consumer surplus, utility revenue, utility taxes, additional electrical power purchase costs, and potable water trucking costs), however, do not include any induced or indirect effects.

9. The majority of impacts estimated in this analysis may be considered smaller than those that might occur under drought of record conditions. Input-output models such as IMPLAN only capture "backward linkages" on suppliers (including households that supply labor to directly affected industries). While this is a common limitation in these types of economic impact modeling efforts, it is important to note that "forward linkages" on the industries that use the outputs of the directly affected industries can also be very important. A good example is impacts on livestock operators. Livestock producers tend to suffer substantially during droughts, not because there is not enough water for their stock, but because reductions in available pasture and higher prices for purchased hay have significant economic effects on their operations. Food processors could be in a similar situation if they cannot get the grains or other inputs that they need. These effects are not captured in IMPLAN, which is one reason why the impact estimates are likely conservative.

10. The methodology did not capture "spillover" effects between regions – or the secondary impacts that occur outside of the region where the water shortage is projected to occur.

11. The model did not reflect dynamic economic responses to water shortages as they might occur, nor does the model reflect economic impacts associated with a recovery from a drought of record including:
    a. The likely significant economic rebound to the landscaping industry immediately following a drought;
    b. The cost and years to rebuild liquidated livestock herds (a major capital item in that industry);
    c. Direct impacts on recreational sectors (i.e., stranded docks and reduced tourism); or,
    d. Impacts of negative publicity on Texas' ability to attract population and business in the event that it was not able to provide adequate water supplies for the existing economy.

12. Estimates for job losses and the associated population and school enrollment changes may exceed what would actually occur. In practice, firms may be hesitant to lay off employees, even in difficult economic times. Estimates of population and school enrollment changes are based on regional evaluations and therefore do not accurately reflect what might occur on a statewide basis.

13. The results must be interpreted carefully. It is the general and relative magnitudes of impacts as well as the changes of these impacts over time that should be the focus rather than the absolute numbers. Analyses of this type are much better at predicting relative percent differences brought about by a shock to a complex system (i.e., a water shortage) than the precise size of an impact. To illustrate, assuming that the estimated economic impacts of a drought of record on the manufacturing and mining water user categories are $2 and $1 million, respectively, one should be more confident that the economic impacts on manufacturing are twice as large as those on mining and that these impacts will likely be in the millions of dollars. But one should have less confidence that the actual total economic impact experienced would be $3 million.

3 Analysis Results

This section presents a breakdown of the results of the regional analysis for Region G. Projected economic impacts for six water use categories (irrigation, livestock. municipal, manufacturing, mining, and steam-electric power) are also reported by decade.

3.1 Overview of the Regional Economy

Table 3-1 presents the 2011 economic baseline as represented by the IMPLAN model and adjusted to 2013 dollars for Region G. In year 2011, Region G generated about $85 billion in gross state product associated with 1,045,000 jobs based on the 2011 IMPLAN data. These values represent an approximation of the current regional economy for a reference point.

Table 3-1 Region G Economy

Income ($ millions)*	Jobs	Taxes on production and imports ($ millions)*
$85,103	**1,044,611**	**$6,473**

[1]Year 2013 dollars based on 2011 IMPLAN model value added estimates for the region.

The remainder of Section 3 presents estimates of potential economic impacts for each water use category that could reasonably be expected in the event of water shortages associated with a drought of record and if no recommended water management strategies were implemented.

3.2 Impacts for Irrigation Water Shortages

Nineteen of the 37 counties in the region are projected to experience water shortages in the irrigated agriculture water use category for one or more decades within the planning horizon. Estimated impacts to this water use category appear in Table 3-2. Note that tax collection impacts were not estimated for this water use category. IMPLAN data indicates a negative tax impact (i.e., increased tax collections) for the associated production sectors, primarily due to past subsidies from the federal government. Two factors led to excluding any reported tax impacts: 1) Federal support (subsidies) has lessened greatly since the year 2011 IMPLAN data was collected, and 2) It was not considered realistic to report increasing tax revenue collections for a drought of record.

Table 3-2 Impacts of Water Shortages on Irrigation in Region

Impact Measure	2020	2030	2040	2050	2060	2070
Income losses ($ millions)*	$17	$16	$16	$15	$14	$13
Job losses	717	685	671	642	580	549

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

3.3 Impacts for Livestock Water Shortages

None of the 37 counties in the region are projected to experience water shortages in the livestock water use category for one or more decades within the planning horizon. Estimated impacts to this water use category appear in Table 3-3. Note that tax impacts are not reported for this water use category for similar reasons that apply to the irrigation water use category described above.

Table 3-3 Impacts of Water Shortages on Livestock in Region

Impact Measures	2020	2030	2040	2050	2060	2070
Income losses ($ millions)*	-	-	-	-	-	-
Jobs losses	-	-	-	-	-	-

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000***

3.4 Impacts for Municipal Water Shortages

Thirty of the 37 counties in the region are projected to experience water shortages in the municipal water use category for one or more decades within the planning horizon. Impact estimates were made for the two subtypes of use within municipal use: residential, and non-residential. The latter includes commercial and institutional users. Consumer surplus measures were made for both residential and non-residential demands. In addition, available data for the non-residential, water-intensive portion of municipal demand allowed use of IMPLAN and TWDB Water Use Survey data to estimate income loss, jobs, and taxes. Trucking cost estimates, calculated for shortages exceeding 80 percent, assumed a fixed cost of $20,000 per acre-foot to transport water for municipal use. The estimated impacts to this water use category appear in Table 3-4.

Table 3-4 Impacts of Water Shortages on Municipal Water Users in Region

Impact Measures	2020	2030	2040	2050	2060	2070
Income losses[1] ($ millions)*	$157	$280	$526	$814	$2,215	$4,025
Job losses[1]	3,153	5,643	10,588	16,348	44,482	80,837
Tax losses on production and imports[1] ($ millions)*	$14	$25	$48	$73	$200	$363
Consumer surplus losses ($ millions)*	$41	$79	$195	$378	$691	$1,100
Trucking costs ($ millions)*	$1	$1	$1	$3	$2	$27
Utility revenue losses ($ millions)*	$91	$180	$293	$423	$515	$725
Utility tax revenue losses ($ millions)*	$1	$3	$5	$7	$9	$12

[1] Estimates apply to the water-intensive portion of non-residential municipal water use.
**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

3.5 Impacts of Manufacturing Water Shortages

Manufacturing water shortages in the region are projected to occur in 10 of the 37 counties in the region for at least one decade of the planning horizon. Estimated impacts to this water use category appear in Table 3-5.

Table 3-5 Impacts of Water Shortages on Manufacturing in Region

Impacts Measures	2020	2030	2040	2050	2060	2070
Income losses ($ millions)*	$1,110	$1,130	$1,344	$1,527	$1,750	$1,960
Job losses	16,523	16,687	19,835	22,573	25,836	28,963
Tax losses on production and Imports ($ millions)*	$60	$61	$72	$82	$94	$106

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

3.6 Impacts of Mining Water Shortages

Mining water shortages in the region are projected to occur in 34 of the 37 counties in the region for at least one decade of the planning horizon. Estimated impacts to this water use type appear in Table 3-6.

Table 3-6 Impacts of Water Shortages on Mining in Region

Impact Measures	2020	2030	2040	2050	2060	2070
Income losses ($ millions)*	$4,213	$4,886	$4,456	$4,577	$5,195	$6,061
Job losses	24,636	28,662	26,371	27,207	30,786	35,773
Tax losses on production and Imports ($ millions)*	$580	$673	$609	$623	$709	$830

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

3.7 Impacts of Steam-Electric Water Shortages

Steam-electric water shortages in the region are projected to occur in 10 of the 37 counties in the region for at least one decade of the planning horizon. Estimated impacts to this water use category appear in Table 3-7.

Note that estimated economic impacts to steam-electric water users:

- Are reflected as an income loss proxy in the form of the estimated additional purchasing costs for power from the electrical grid that could not be generated due to a shortage;
- Do not include estimates of impacts on jobs. Because of the unique conditions of power generators during drought conditions and lack of relevant data, it was assumed that the industry would retain, perhaps relocating or repurposing, their existing staff in order to manage their ongoing operations through a severe drought.
- Does not presume a decline in tax collections. Associated tax collections, in fact, would likely increase under drought conditions since, historically, the demand for electricity increases during times of drought, thereby increasing taxes collected on the additional sales of power.

Table 3-7 Impacts of Water Shortages on Steam-Electric Power in Region

Impact Measures	2020	2030	2040	2050	2060	2070
Income Losses ($ millions)*	$1,598	$2,054	$2,214	$2,638	$3,224	$3,994

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

3.8 Regional Social Impacts

Projected changes in population, based upon several factors (household size, population, and job loss estimates), as well as the accompanying change in school enrollment, were also estimated and are summarized in Table 3-8.

Table 3-8 Region-wide Social Impacts of Water Shortages in Region

Impact Measures	2020	2030	2040	2050	2060	2070
Consumer surplus losses ($ millions)*	$41	$79	$195	$378	$691	$1,100
Population losses	8,267	9,488	10,551	12,259	18,669	26,828
School enrollment losses	1,529	1,755	1,952	2,268	3,454	4,963

**** Year 2013 dollars, rounded. Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000.***

Appendix A - County Level Summary of Estimated Economic Impacts for Region G

County level summary of estimated economic impacts of not meeting identified water needs by water use category and decade (in 2013 dollars, rounded). Values presented only for counties with projected economic impacts for at least one decade.

**** Entries denoted by a dash (-) indicate no economic impact. Entries denoted by a zero ($0) indicate income losses less than $500,000***

		Income losses (Million $)*						Job losses						Consumer Surplus (Million $)*					
County	Water Use Category	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
BELL	IRRIGATION	$0	$0	$0	$0	$0	$0	15	14	14	14	14	13	-	-	-	-	-	-
BELL	MANUFACTURING	$156	$178	$198	$217	$241	$268	1,642	1,868	2,088	2,283	2,539	2,815	-	-	-	-	-	-
BELL	MINING	$43	$53	$62	$72	$82	$93	416	511	591	687	784	895	-	-	-	-	-	-
BELL	MUNICIPAL	$5	$6	$7	$9	$35	$67	100	120	141	187	705	1,354	$1	$2	$3	$8	$16	$26
BELL	STEAM ELECTRIC POWER	$157	$183	$216	$255	$303	$360	-	-	-	-	-	-	-	-	-	-	-	-
BELL Total		**$362**	**$420**	**$483**	**$553**	**$662**	**$789**	**2,173**	**2,513**	**2,833**	**3,171**	**4,042**	**5,078**	**$1**	**$2**	**$3**	**$8**	**$16**	**$26**
BOSQUE	IRRIGATION	$0	$0	$0	$0	$0	$0	1	1	1	1	1	-	-	-	-	-	-	-
BOSQUE	MANUFACTURING	$502	$587	$672	$744	$829	$921	9,017	10,557	12,072	13,381	14,906	16,562	-	-	-	-	-	-
BOSQUE	MINING	$71	$74	$68	$67	$65	$65	479	505	459	453	443	440	-	-	-	-	-	-
BOSQUE	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0
BOSQUE	STEAM ELECTRIC POWER	-	-	$11	$56	$132	$240	-	-	-	-	-	-	-	-	-	-	-	-
BOSQUE Total		**$572**	**$662**	**$750**	**$867**	**$1,027**	**$1,226**	**9,497**	**11,063**	**12,532**	**13,835**	**15,350**	**17,002**	**-**	**-**	**-**	**$0**	**$0**	**$0**
BRAZOS	IRRIGATION	$3	$2	$2	$1	$1	$1	111	90	72	56	42	31	-	-	-	-	-	-
BRAZOS	MANUFACTURING	$196	$53	$97	$142	$190	$230	3,041	819	1,504	2,201	2,952	3,575	-	-	-	-	-	-
BRAZOS	MINING	$172	$254	$226	$181	$146	$129	971	1,438	1,279	1,021	824	727	-	-	-	-	-	-
BRAZOS	MUNICIPAL	-	-	-	$12	$683	$1,464	-	-	-	241	13,742	29,474	$1	$1	$1	$9	$47	$156
BRAZOS	STEAM ELECTRIC POWER	$7	$2	$3	-	$2	$1	-	-	-	-	-	-	-	-	-	-	-	-
BRAZOS Total		**$377**	**$311**	**$328**	**$336**	**$1,021**	**$1,825**	**4,123**	**2,347**	**2,855**	**3,519**	**17,559**	**33,807**	**$1**	**$1**	**$1**	**$9**	**$47**	**$156**
BURLESON	MANUFACTURING	-	$0	$0	$0	$1	$1	-	-	2	5	9	13	-	-	-	-	-	-
BURLESON	MINING	$289	$559	$439	$320	$199	$124	1,586	3,064	2,410	1,753	1,093	682	-	-	-	-	-	-
BURLESON Total		**$289**	**$559**	**$439**	**$320**	**$200**	**$125**	**1,586**	**3,065**	**2,412**	**1,758**	**1,102**	**695**	**-**	**-**	**-**	**-**	**-**	**-**
CALLAHAN	MINING	$22	$22	$21	$19	$18	$17	130	129	122	114	108	103	-	-	-	-	-	-
CALLAHAN	MUNICIPAL	$0	$0	$0	$0	$0	$0	1	1	1	1	1	1	$0	$0	$0	$0	$0	$0
CALLAHAN Total		**$22**	**$22**	**$21**	**$20**	**$18**	**$18**	**131**	**130**	**123**	**116**	**110**	**104**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
COMANCHE	IRRIGATION	-	$0	$0	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
COMANCHE	MINING	$121	$145	$98	$73	$47	$30	666	795	537	398	258	163	-	-	-	-	-	-

		Income losses (Million $)*						Job losses						Consumer Surplus (Million $)*					
County	Water Use Category	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
COMANCHE	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
COMANCHE Total		**$121**	**$145**	**$98**	**$73**	**$47**	**$30**	**666**	**796**	**537**	**398**	**258**	**163**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
CORYELL	MINING	$169	$120	$55	$41	$45	$49	983	698	320	236	259	284	-	-	-	-	-	-
CORYELL	MUNICIPAL	-	-	-	-	-	$16	-	-	-	-	-	325	$0	$0	$0	$1	$2	$3
CORYELL Total		**$169**	**$120**	**$55**	**$41**	**$45**	**$65**	**983**	**698**	**320**	**236**	**259**	**609**	**$0**	**$0**	**$0**	**$1**	**$2**	**$3**
EASTLAND	IRRIGATION	$0	$0	$0	$0	$0	$0	9	9	9	9	9	9	-	-	-	-	-	-
EASTLAND	MINING	$210	$212	$168	$129	$94	$78	1,179	1,188	941	723	525	437	-	-	-	-	-	-
EASTLAND Total		**$211**	**$212**	**$168**	**$129**	**$94**	**$78**	**1,188**	**1,197**	**950**	**732**	**534**	**447**	**-**	**-**	**-**	**-**	**-**	**-**
ERATH	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0
ERATH Total		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**$0**	**$0**
FALLS	MINING	$3	$3	$3	$4	$4	$4	29	32	33	37	39	43	-	-	-	-	-	-
FALLS	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
FALLS Total		**$3**	**$3**	**$3**	**$4**	**$4**	**$4**	**29**	**32**	**33**	**37**	**39**	**43**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
FISHER	MANUFACTURING	-	$1	$3	$6	$9	$13	-	11	33	59	89	125	-	-	-	-	-	-
FISHER	MINING	$117	$115	$103	$90	$78	$68	640	632	564	492	429	374	-	-	-	-	-	-
FISHER	MUNICIPAL	$0	-	-	-	-	$0	0	-	-	-	-	2	$0	$0	$0	$0	$0	$0
FISHER Total		**$117**	**$116**	**$106**	**$95**	**$87**	**$81**	**640**	**643**	**597**	**550**	**518**	**501**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
GRIMES	MINING	$84	$165	$127	$89	$51	$28	462	907	698	489	280	151	-	-	-	-	-	-
GRIMES	STEAM ELECTRIC POWER	$145	$192	$247	$324	$447	$590	-	-	-	-	-	-	-	-	-	-	-	-
GRIMES Total		**$229**	**$358**	**$374**	**$413**	**$498**	**$618**	**462**	**907**	**698**	**489**	**280**	**151**	**-**	**-**	**-**	**-**	**-**	**-**
HAMILTON	IRRIGATION	$0	$0	$0	$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON	MINING	$110	$65	$26	-	-	-	606	355	140	-	-	-	-	-	-	-	-	-
HAMILTON	MUNICIPAL	-	-	-	-	-	$0	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
HAMILTON Total		**$110**	**$65**	**$26**	**$0**	**-**	**$0**	**606**	**355**	**140**	**-**	**-**	**-**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
HASKELL	IRRIGATION	-	$0	$0	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
HASKELL	MINING	$27	$27	$24	$21	$19	$17	148	147	132	118	105	94	-	-	-	-	-	-
HASKELL	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$2	$4
HASKELL Total		**$27**	**$27**	**$24**	**$21**	**$19**	**$17**	**148**	**147**	**134**	**118**	**105**	**94**	**$0**	**$0**	**$0**	**$0**	**$2**	**$4**
HILL	MINING	$54	$3	-	-	-	-	310	16	-	-	-	-	-	-	-	-	-	-
HILL	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0
HILL Total		**$54**	**$3**	**-**	**-**	**-**	**-**	**310**	**16**	**-**	**-**	**-**	**-**	**-**	**$0**	**$0**	**$0**	**$0**	**$0**
HOOD	MINING	$87	$158	$114	$97	$81	$83	499	905	654	557	463	477	-	-	-	-	-	-
HOOD	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
HOOD Total		**$87**	**$158**	**$114**	**$97**	**$81**	**$83**	**499**	**905**	**654**	**557**	**463**	**477**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
JOHNSON	MINING	$173	-	-	-	-	-	953	-	-	-	-	-	-	-	-	-	-	-
JOHNSON	MUNICIPAL	-	-	-	$11	$53	$110	-	-	-	184	968	2,024	$0	$1	$4	$7	$12	$19
JOHNSON	STEAM ELECTRIC POWER	$210	$210	$210	$210	$210	$210	-	-	-	-	-	-	-	-	-	-	-	-

		Income losses (Million $)*						Job losses						Consumer Surplus (Million $)*					
County	Water Use Category	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
JOHNSON Total		**$383**	**$210**	**$210**	**$221**	**$263**	**$320**	**953**	**-**	**-**	**184**	**968**	**2,024**	**$0**	**$1**	**$4**	**$7**	**$12**	**$19**
JONES	IRRIGATION	$0	$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JONES	MINING	$30	$29	$27	$25	$23	$21	172	168	156	143	131	121	-	-	-	-	-	-
JONES	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0
JONES Total		**$30**	**$29**	**$27**	**$25**	**$23**	**$21**	**172**	**168**	**156**	**143**	**131**	**121**	**-**	**$0**	**$0**	**$0**	**$0**	**$0**
KENT	MUNICIPAL	$2	$2	$2	$2	$2	$2	37	37	36	36	35	35	$0	$0	$0	$0	$0	$0
KENT Total		**$2**	**$2**	**$2**	**$2**	**$2**	**$2**	**37**	**37**	**36**	**36**	**35**	**35**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
KNOX	IRRIGATION	$0	$0	$1	$1	$0	$0	2	12	37	46	17	12	-	-	-	-	-	-
KNOX	MINING	$4	$4	$4	$4	$4	$4	24	24	22	22	22	22	-	-	-	-	-	-
KNOX	MUNICIPAL	-	-	-	$1	$4	$5	-	-	-	27	74	110	$0	$0	$0	$0	$1	$3
KNOX Total		**$4**	**$5**	**$5**	**$7**	**$8**	**$10**	**26**	**36**	**59**	**95**	**113**	**144**	**$0**	**$0**	**$0**	**$0**	**$1**	**$3**
LAMPASAS	IRRIGATION	$0	$0	$0	$0	$0	$0	2	2	2	2	2	2	-	-	-	-	-	-
LAMPASAS	MINING	$2	$3	$3	$3	$3	$4	22	25	28	30	34	37	-	-	-	-	-	-
LAMPASAS	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$1	$1
LAMPASAS Total		**$2**	**$3**	**$3**	**$3**	**$4**	**$4**	**25**	**28**	**30**	**33**	**36**	**39**	**$0**	**$0**	**$0**	**$0**	**$1**	**$1**
LEE	IRRIGATION	$0	$0	$0	$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEE	MINING	$175	$400	$426	$456	$489	$528	1,121	2,569	2,738	2,927	3,139	3,395	-	-	-	-	-	-
LEE Total		**$175**	**$400**	**$426**	**$456**	**$489**	**$528**	**1,121**	**2,569**	**2,738**	**2,927**	**3,139**	**3,395**	**-**	**-**	**-**	**-**	**-**	**-**
LIMESTONE	MINING	$342	$328	$325	$342	$359	$381	2,361	2,263	2,249	2,366	2,482	2,636	-	-	-	-	-	-
LIMESTONE	MUNICIPAL	$13	$13	$13	$13	$13	$14	271	267	263	262	263	277	$5	$5	$5	$5	$5	$6
LIMESTONE	STEAM ELECTRIC POWER	-	-	$60	$232	$511	$904	-	-	-	-	-	-	-	-	-	-	-	-
LIMESTONE Total		**$355**	**$341**	**$399**	**$588**	**$883**	**$1,299**	**2,632**	**2,530**	**2,512**	**2,628**	**2,745**	**2,913**	**$5**	**$5**	**$5**	**$5**	**$5**	**$6**
MCLENNAN	IRRIGATION	$1	$1	$1	$1	$1	$1	24	24	24	25	25	25	-	-	-	-	-	-
MCLENNAN	MANUFACTURING	$149	$177	$214	$236	$267	$277	1,752	2,085	2,512	2,773	3,133	3,251	-	-	-	-	-	-
MCLENNAN	MINING	$51	$62	$63	$73	$80	$89	400	482	493	572	629	697	-	-	-	-	-	-
MCLENNAN	MUNICIPAL	-	-	-	-	$0	$1	-	-	-	-	6	18	$0	$0	$0	$1	$1	$2
MCLENNAN Total		**$201**	**$239**	**$277**	**$310**	**$348**	**$367**	**2,176**	**2,591**	**3,029**	**3,370**	**3,794**	**3,991**	**$0**	**$0**	**$0**	**$1**	**$1**	**$2**
NOLAN	IRRIGATION	$0	$0	$0	$0	$0	$0	19	16	14	12	10	8	-	-	-	-	-	-
NOLAN	MANUFACTURING	$76	$92	$108	$122	$136	$152	805	980	1,152	1,304	1,454	1,618	-	-	-	-	-	-
NOLAN	MINING	$59	$58	$53	$47	$41	$37	325	321	289	257	228	204	-	-	-	-	-	-
NOLAN	MUNICIPAL	$38	$40	$41	$45	$47	$50	764	807	829	897	955	1,009	$8	$9	$9	$10	$11	$13
NOLAN	STEAM ELECTRIC POWER	$503	$889	$889	$889	$889	$889	-	-	-	-	-	-	-	-	-	-	-	-
NOLAN Total		**$676**	**$1,080**	**$1,091**	**$1,103**	**$1,115**	**$1,128**	**1,913**	**2,124**	**2,283**	**2,470**	**2,647**	**2,838**	**$8**	**$9**	**$9**	**$10**	**$11**	**$13**
PALO PINTO	IRRIGATION	$0	$0	$0	$0	$0	$0	1	1	1	1	1	1	-	-	-	-	-	-
PALO PINTO	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
PALO PINTO Total		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**1**	**1**	**1**	**1**	**1**	**1**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
ROBERTSON	IRRIGATION	$12	$12	$11	$11	$11	$10	518	499	481	464	448	435	-	-	-	-	-	-

		Income losses (Million $)*						Job losses						Consumer Surplus (Million $)*					
County	Water Use Category	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
ROBERTSON	MINING	-	$32	$367	$1,056	$2,155	$3,301	-	175	2,020	5,820	11,872	18,187	-	-	-	-	-	-
ROBERTSON	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$1
ROBERTSON	STEAM ELECTRIC POWER	-	-	-	$93	$150	$219	-	-	-	-	-	-	-	-	-	-	-	-
ROBERTSON Total		**$12**	**$44**	**$378**	**$1,160**	**$2,316**	**$3,531**	**518**	**675**	**2,501**	**6,284**	**12,319**	**18,622**	**$0**	**$0**	**$0**	**$0**	**$0**	**$1**
SHACKELFORD	MINING	$161	$215	$160	$126	$93	$69	884	1,179	878	693	512	376	-	-	-	-	-	-
SHACKELFORD Total		**$161**	**$215**	**$160**	**$126**	**$93**	**$69**	**884**	**1,179**	**878**	**693**	**512**	**376**	**-**	**-**	**-**	**-**	**-**	**-**
SOMERVELL	MINING	$31	$58	$36	$24	$16	$13	182	336	211	140	95	78	-	-	-	-	-	-
SOMERVELL	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0
SOMERVELL	STEAM ELECTRIC POWER	$577	$577	$578	$578	$579	$580	-	-	-	-	-	-	-	-	-	-	-	-
SOMERVELL Total		**$608**	**$635**	**$614**	**$603**	**$595**	**$593**	**182**	**336**	**211**	**140**	**95**	**78**	**-**	**-**	**-**	**-**	**$0**	**$0**
STEPHENS	IRRIGATION	$0	$0	$0	$0	$0	$0	-	-	-	-	-	-	-	-	-	-	-	-
STEPHENS	MINING	$1,181	$1,203	$1,005	$821	$656	$515	6,476	6,599	5,511	4,502	3,597	2,825	-	-	-	-	-	-
STEPHENS	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
STEPHENS Total		**$1,181**	**$1,203**	**$1,005**	**$821**	**$656**	**$515**	**6,476**	**6,599**	**5,511**	**4,502**	**3,597**	**2,825**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
STONEWALL	MINING	$117	$115	$97	$78	$61	$45	643	631	530	426	335	245	-	-	-	-	-	-
STONEWALL Total		**$117**	**$115**	**$97**	**$78**	**$61**	**$45**	**643**	**631**	**530**	**426**	**335**	**245**	**-**	**-**	**-**	**-**	**-**	**-**
TAYLOR	IRRIGATION	$0	$0	$0	$0	$0	$0	15	14	14	13	13	12	-	-	-	-	-	-
TAYLOR	MINING	$21	$21	$20	$18	$18	$17	133	133	124	118	112	107	-	-	-	-	-	-
TAYLOR	MUNICIPAL	$3	$3	$4	$4	$4	$5	60	68	75	82	88	94	$1	$4	$5	$6	$7	$8
TAYLOR Total		**$24**	**$24**	**$23**	**$23**	**$22**	**$22**	**208**	**215**	**213**	**213**	**213**	**213**	**$1**	**$4**	**$5**	**$6**	**$7**	**$8**
THROCKMORTON	MINING	$56	$55	$50	$44	$38	$34	309	304	273	239	210	185	-	-	-	-	-	-
THROCKMORTON	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
THROCKMORTON Total		**$56**	**$55**	**$50**	**$44**	**$38**	**$34**	**309**	**304**	**273**	**239**	**210**	**185**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
WASHINGTON	MANUFACTURING	-	$6	$18	$32	$54	$82	-	63	189	338	567	855	-	-	-	-	-	-
WASHINGTON	MINING	$111	$169	$137	$105	$73	$51	619	942	764	585	406	287	-	-	-	-	-	-
WASHINGTON	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0
WASHINGTON Total		**$111**	**$175**	**$155**	**$137**	**$127**	**$133**	**619**	**1,004**	**954**	**923**	**972**	**1,142**	**-**	**$0**	**$0**	**$0**	**$0**	**$0**
WILLIAMSON	IRRIGATION	$0	$0	$0	$0	$0	$0	-	-	-	-	-	-	-	-	-	-	-	-
WILLIAMSON	MANUFACTURING	$31	$36	$33	$27	$22	$18	266	305	283	230	188	149	-	-	-	-	-	-
WILLIAMSON	MINING	$64	$78	$93	$109	$126	$144	610	749	893	1,046	1,203	1,384	-	-	-	-	-	-
WILLIAMSON	MUNICIPAL	$95	$216	$459	$717	$1,373	$2,291	1,921	4,343	9,244	14,431	27,644	46,114	$23	$56	$166	$330	$585	$856
WILLIAMSON Total		**$190**	**$330**	**$586**	**$853**	**$1,521**	**$2,453**	**2,796**	**5,398**	**10,420**	**15,707**	**29,035**	**47,647**	**$23**	**$56**	**$166**	**$330**	**$585**	**$856**
YOUNG	IRRIGATION	$0	$0	$0	$0	$0	$0	-	-	-	-	-	-	-	-	-	-	-	-
YOUNG	MINING	$54	$80	$57	$44	$31	$21	298	440	312	241	167	116	-	-	-	-	-	-

		Income losses (Million $)*						Job losses						Consumer Surplus (Million $)*					
County	Water Use Category	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
YOUNG	MUNICIPAL	-	-	-	-	-	-	-	-	-	-	-	-	$0	$0	$0	$0	$0	$0
YOUNG Total		**$54**	**$80**	**$57**	**$44**	**$31**	**$21**	**298**	**440**	**312**	**241**	**167**	**116**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Regional Total		**$7,095**	**$8,366**	**$8,556**	**$9,571**	**$12,397**	**$16,054**	**45,029**	**51,678**	**57,465**	**66,771**	**101,683**	**146,122**	**$41**	**$79**	**$195**	**$378**	**$691**	**$1,100**

Appendix I

Written Comments Received on the Initially Prepared Plan

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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

August 6, 2015

Mr. Wayne Wilson, Chair
Brazos Regional Water Planning Group
7026 East OSR
Bryan, Texas 77808

Mr. Trey Buzbee
Brazos River Authority
P.O. Box 7555
Waco, Texas 76714

Re: Texas Water Development Board Comments on the Brazos Regional Water Planning Group (Region G) Initially Prepared Plan, Contract No. 1148301318

Dear Mr. Wilson and Mr. Buzbee:

Texas Water Development Board (TWDB) staff completed a review of the Initially Prepared Plan (IPP) submitted by May 1, 2015 on behalf of the Region G Regional Water Planning Group. The attached comments follow this format:

- **Level 1:** Comments, questions, and online regional water planning database revisions that must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements; and,

- **Level 2:** Comments and suggestions for consideration that may improve the readability and overall understanding of the regional water plan.

The TWDB's statutory requirement for review of potential interregional conflicts under Title 31 Texas Administrative Code (TAC) §357.62 will not be completed until submittal and review of adopted regional water plans. However, as previously requested by our Executive Administrator, please inform TWDB in advance of your final plan if your planning group believes that an interregional conflict exists. Additionally, subsequent review will be performed as the planning group completes its data entry into the regional water planning database (DB17). If issues arise during our ongoing data review, they will be communicated promptly to the planning group to resolve.

Our Mission

To provide leadership, information, education, and support for planning, financial assistance, and outreach for the conservation and responsible development of water for Texas

Board Members

Bech Bruun, Chairman | Carlos Rubinstein, Member | Kathleen Jackson, Member

Kevin Patteson, Executive Administrator

Title 31 TAC§357.50(d) requires the regional water planning group to consider timely agency and public comment. Section 357.50(e) requires the final adopted plan include summaries of all timely written and oral comments received, along with a response explaining any resulting revisions or why changes are not warranted. Copies of TWDB's Level 1 and 2 written comments and the region's responses must be included in the final, adopted regional water plan. While the comments included in this letter represent TWDB's review to date, please anticipate the need to respond to additional comments regarding data integrity, including any water source overallocations, in the regional water planning database (DB17) once data entry is completed by the region.

Standard to all planning groups is the need to include certain content in the final regional water plans that was not yet available at the time that IPPs were prepared and submitted. In your final regional water plan, however please be sure to also incorporate the following:

a) Completed results from the regional planning group's infrastructure financing survey (IFR) for sponsors of recommended projects with capital costs *[31 TAC §357.44]*;
b) Completed results from the implementation survey *[31 TAC §357.45(a)]*;
c) The socioeconomic impact evaluation provided by TWDB at the request of the planning group *[31 TAC §357.33(c)]*;
d) Documentation that comments received on the IPP were considered in the development of the final plan *[31 TAC §357.50(d)]*;
e) Evidence, such as a certification, that the final, adopted regional water plan is complete and adopted by the planning group *[31 TAC §357.50(j)(1)]*; and,
f) The required DB17 reports, as made available by TWDB, in the executive summary or elsewhere in the plan as specified in the Contract *[31 TAC §357.50(e)(2)(B), Contract Scope of Work Task 4D(p), Contract Exhibit 'C', Table 2]*. Please ensure that the numerical values presented in the tables throughout the final, adopted regional water plan are consistent with the data provided in DB17. For the purpose of development of the 2017 State Water Plan, water management strategy and other data entered by the regional water group in DB17 (and as presented in the regional plan) shall take precedence over any conflicting data presented in the final regional water plan. *[Contract Exhibit 'C', Sections 12.1.3. and 12.2.2]*

The following items must accompany, separately, the submission of the final, adopted regional water plan:

- The prioritized list of all recommended projects in the regional water plan *[Texas Water Code 15.436(a), Contract Scope of Work Task 13];* and,
- Any remaining hydrologic modeling files or GIS files that may not have been provided at the time of the submission of the IPP but that were used in developing the final plan. *[31 TAC §357.50(e)(2)(C), Contract Exhibit 'C', Section 12.2.1; Contract Scope of Work Task 3-III-13]*

Note that provision of certain content in an electronic-only form is permissible as follows: Internet links are permissible as a method for including model conservation and drought contingency plans within the final regional water plan; hydrologic modeling files may be submitted as electronic appendices, however

all other regional water plan appendices should be incorporated in hard copy format within each plan. *[31 TAC §357.50(e)(2)(C), Contract Scope of Work Task 5e, Contract Exhibit 'C', Section 12.2.1]*

The following general requirements that apply to recommended water management strategies must be adhered to in all final regional water plans including:

- Regional water plans must not include any strategies or costs that are associated with simply maintaining existing water supplies or replacing existing infrastructure. Plans may include only infrastructure costs that are associated with volumetric increases of treated water supplies delivered to water user groups or that result in more efficient use of existing supplies *[31 TAC §357.10(28), §357.34(d)(3)(A), Contract Exhibit 'C", Section 5.1.2.2, Section 5.1.2.3]*; and,
- Regional water plans must not include any retail distribution-level infrastructure costs (other than those costs related to conservation strategies such as water loss reduction). *[31 TAC §357.10(28), §357.34(d)(3)(A), Contract Exhibit 'C", Section 5.1.2.3]*

To facilitate efficient and timely completion, and Board approval, of your final regional water plan, please provide your TWDB project manager with early drafts of your responses to these IPP comments for preliminary review and feedback.

If you have any questions regarding these comments or would like to discuss your approach to addressing any of these comments, please do not hesitate to contact Lann Bookout at (512) 936-9439. TWDB staff will be available to assist you in any way possible to ensure successful completion of your final regional water plan.

Sincerely,

Jeff Walker
Deputy Executive Administrator
Water Supply and Infrastructure

Attachments

cc w/att: Mr. David Dunn, HDR, Inc.

TWDB Comments on the Initially Prepared 2016 Brazos (Region G) Regional Water Plan

Level 1: Comments and questions must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements.

1. Tables 2-5 through 2-10 present water user group (WUG) demands by category of use, but do not include demand projections over the planning horizon for wholesale water providers (WWP) by water use category and by county. Please include WWP demands by category of use and county in the final, adopted regional water plan. *[31 Texas Administrative Code (TAC) §357.31(b)]*

2. Page 3-51, Table 3.4-1 and Appendix B, page B-13: The Dockum Aquifer table of availability in Appendix B presents water volumes that differ from Table 3.4-1. Please reconcile Table 3.4-1 for the Dockum Aquifer in Nolan County with Appendix B information in the final, adopted regional water plan. *[31 TAC §357.32(d)]*

3. Volume I, Section 3.2.4 and Volume II, Section 1.2: Section 3.2.4 states that water availability was determined as the minimum annual supply for run-of-river rights; however, in Vol. II, Section 1.2, the methodology states the use of a 75/75 criteria for water right availability. Water availability for water management strategies must represent the anticipated diversion volume under drought of record conditions. Please confirm annual run-of-river availability and whether it is anticipated to be available under drought of record conditions. If necessary, please adjust strategy yields to reflect the volume of the run-of-river supplies that would be available under drought of record conditions in the final, adopted regional water plan. *[31 TAC §357.34(d)(3)(A); Contract Exhibit 'C', Section 3.4]*

4. Volume I, Table 5.39-2: The Summary of Recommended Strategies includes "Out of Region." It is not clear what this strategy rollup represents and an associated technical memorandum in Volume II could not be identified. Please clarify the "Out of Region" water management strategy(s) in the final, adopted regional water plan. *[Contract Exhibit 'C', Section 12.1.2]*

5. Please describe how publicly available plans of major agricultural, municipal, manufacturing and commercial water users were considered in the final, adopted regional water plan. *[31 TAC §357.22(a)(4)]*

6. Please provide a statement regarding any water availability requirements promulgated by a county commissioners court pursuant to Texas Water Code §35.019, which in Region G applies to the North - Central Texas Trinity and Woodbine Aquifers and Central Texas - Trinity Priority Groundwater Management Areas. *[31 TAC §357.22(a)(6)]*

7. The plan does not include a subchapter in Chapter 5 consolidating the planning group's recommendations regarding water conservation and model water conservation plans. Please consolidate this information in the final, adopted regional water plan. *[31 TAC §357.34(g)]*

8. The plan does not appear to document the planning group's process for identifying potentially feasible water management strategies. Please include this documentation in the final, adopted regional water plan. *[31 TAC §357.12(b) and §357.34(b)]*

9. The plan in some instances, does not appear to include a quantitative reporting of impacts to agricultural resources. For example, Volume II strategy evaluation 4.7 identifies crops present in the reservoir and pipeline footprint, but does not appear to include quantified impacts to agricultural resources. Other strategy evaluations (e.g., 4.1, 4.2) do not appear to quantify impacts, including no impacts. Please include quantitative reporting of impacts, including if negligble, to agricultural resources in the final, adopted regional water plan. *[31 TAC §357.34 (d)(3)(C)]*

10. Pages 5.10-4, 5.33-3: The plan does not appear to consider conservation as a potentially feasible strategy for all identified water supply needs. For example, West Brazos WSC and Steamboat Mountain WSC have identified water needs but no conservation strategy is summarized as potentially feasible. Please include documentation that conservation water management strategies were considered to meet identified needs and, if not recommended, please document the reason in the final, adopted regional water plan. *[31 TAC §357.34(f)(2)(B)]*

11. Tables 5.39-2 and 5.39-6: The plan appears to include the Lake Granger ASR recommended strategy also in the summary of alternative strategies. Both tables include identical costs and strategy volumes and the technical evaluations in Volume II do not describe an alternative configuration. Please reconile in the final, adopted regional water plan. *[31 TAC §357.34(e)]*

12. The plan does not appear to include model water conservation plans. Please include in the final, adopted regional water plan for example, as an online link. *[31 TAC §357.34(g)]*

13. The technical evaluations of the water management strategies do not appear to estimate water losses from the associated strategies. Please include an estimate of water losses in the final, adopted regional water plan, for example as an estimated percent loss. *[31 TAC §357.34(d)(3)(A); Contract Exhibit 'C', Section 5.1.1]*

14. Volume II, Page 3.5-41: The City of Cleburne reuse strategy appears to include retail distribution-level infrastructure in the strategy evaluation (i.e., 6-inch spur line to the sports complex). Please remove all distribution-level infrastructures and associated costs from the plan and confirm water management evaluations throughout the plan. *[31 TAC §357.34(d)(3)(A), Conforms with Contract Exhibit 'C', Section 5.1.2.3]*

15. Volume II, Strategy Evaluation 7.2: The plan does not appear to include consideration given to the highest practicable level of water conservation achievable by water users as relates to the interbasin transfer water management strategy Brushy Creek Regional Utility Authority System. Please include this documentation in the final, adopted regional water plan. *[31 TAC §357.34(f)(2)(C), Contract Exhibit 'C', Section 5.1]*

16. Volume II, Strategy Evaluation 7.11: The plan does not appear to report system gain as a separate permitted amount from the system in the analysis of the "BRA System Operation of Reservoirs". Please present the methodology used and the system gain volume separate from the system volume in the final, adopted regional water plan. *[Contract Exhibit 'C', Section 3.5]*

Level 2: Comments and suggestions for consideration that may improve the readability and overall understanding of the regional water plan.

1. In the Volume II, Table of Contents, the table heading number 3 for "Reuse" appears to have been omitted. Please consider revising in the final, adopted regional water plan.

2. Tables 5.39-2 and 5.39-6: Recommend clarifying that the numbers listed in the column "WUG/WWP using Strategy" are the number of entites using the strategy in the final, adopted regional water plan.

3. Tables 5.39-2 and 5.39-6: The "Supply Developed" for the "Reuse" alternative strategy appears to only account for the City of Bryan and does not account for WMARSS reuse (WMARSS is indicated as an alternative strategy for Cities of Mart, Riesel, and Waco). Suggest confirming supply volumes in the final, adopted regional water plan.

4. Table 5.39-6: It appears that the following Alternative Strategies are missing from Table 5.39-6: Voluntary Transfers such as Lake Whitney diversion to Cleburne (City of Cleburne), supply from City of Caldwell (Burleson Co. Manufacturing), supply for City of Gatesville (Coryell Co. – Other), supply from City of Granbury (City of Tolar), supply from Acton MUD (Hood Co. – Other), and supply from Somervell Co. water supply project (City of Glen Rose); Groundwater development of Edwards BFZ (Bell Co. Manufacturing); and WMARSS – Reuse (Cities of Mart, Riesel, and Waco). Please consider adding these alternative strategies to the table in the final, adopted regional water plan.

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Carter P. Smith
Executive Director

August 14, 2015

Mr. Trey Buzbee, Administrative Agent for
Region G Regional Water Planning Group
c/o Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Re: 2016 Brazos G Initially Prepared Regional Water Plan

Dear Mr. Buzbee:

Thank you for seeking review and comment from the Texas Parks and Wildlife Department ("TPWD") on the 2016 Initially Prepared Regional Water Plan for Brazos G (IPP). As you know, water impacts every aspect of TPWD's mission to manage and conserve the natural and cultural resources of Texas. As the agency charged with primary responsibility for protecting the state's fish and wildlife resources, TPWD is positioned to provide technical assistance during the water planning process. Although TPWD has limited regulatory authority over the use of state waters, TPWD is committed to working with stakeholders and others to provide science-based information during the water planning process intended to avoid or minimize impacts to state fish and wildlife resources.

TPWD understands that regional water planning groups are guided by 31 TAC §357 when preparing regional water plans. These water planning rules spell out requirements related to natural resource and environmental protection. Accordingly, TPWD staff reviewed the IPP with a focus on the following questions:

- Does the IPP include a quantitative reporting of environmental factors including the effects on environmental water needs and habitat?
- Does the IPP include a description of natural resources and threats to natural resources due to water quantity or quality problems?
- Does the IPP discuss how these threats will be addressed?
- Does the IPP describe how it is consistent with long-term protection of natural resources?
- Does the IPP include water conservation as a water management strategy?
- Does the IPP include Drought Contingency Plans?
- Does the IPP recommend any stream segments be nominated as ecologically unique?
- If the IPP includes strategies identified in the 2010 regional water plan, does it address concerns raised by TPWD in connection with the 2010 Water Plan.

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The Brazos G planning region encompasses 37 counties making it the largest water planning region in the state. The population of Brazos G was nearly 2 million in 2010 and is expected to more than double to over 4 million by 2070. Regional water use, which was about 850,000 acre-feet in 2010, is expected to increase by 74 percent to 1.48 million acre-feet by 2070. Approximately 69 percent of the current water use in Region G is for municipal and irrigation supply. In addition, about 51 percent of the water use in Region G in 2010 was supplied by groundwater. To address future water demands, the IPP recommends new supplies totaling nearly 400,000 acre-feet.

According to the IPP, water conservation in the 2016 Plan is much more aggressively considered than in the 2011 Plan. Total municipal conservation savings in the 2060 decade in the 2011 Plan was 21,366 acre-feet/year versus 73,835 acre-feet/yr in the 2016 Plan. There appears to be an error on page ES-16 stating municipal conservation savings in the 2016 plan are 21,366 acre-feet/year. TPWD staff applauds increased emphasis on conservation and with it, the projected reduction in average gallons per capita per day (gpcd) from 146 to 130, lower than the statewide goal of 140.

In addition to conservation and reuse, a number of new water management strategies (WMS) are proposed. New on-channel reservoirs include Brushy Creek, Cedar Ridge, Lake Creek, South Bend, and Throckmorton. New off-channel reservoirs include Coryell, City of Groesbeck, Hamilton County, Palo Pinto, Little River, Main Stem, Meridian, and Peach Creek. Existing Lake Palo Pinto is proposed to be enlarged with the addition of Turkey Peak Dam. TPWD is pleased that the proposed Millican Panther Creek Reservoir is no longer included as a recommended WMS in the Brazos G IPP.

The System Operation of Brazos River Authority (BRA) Reservoirs is proposed as a WMS. TPWD collaborated with the BRA to ensure impacts to environmental flows were minimized. Five new aquifer storage and recovery (ASR) projects are also proposed as well as a number of brackish groundwater development projects. From the perspective of environmental impacts, ASR projects are generally preferred over surface reservoirs since habitat impacts can be minimized. Impacts from brackish groundwater development can be minimized by disposing of brine concentrate via deep well injection.

The upper basin in Brazos G may be experiencing a new drought of record. Drought contingency plans are discussed in Chapter 7 but are not included as recommended water management strategies. However, the IPP does suggest that water user groups without drought contingency plans review plans from other districts and create a plan appropriate for their area. TPWD supports each Water User Group in having a drought contingency plan.

Chapter 1 describes the natural resources in Brazos G and the threats to those resources. Threats to natural resources include land use disturbance, reduced stream flows from drought and water diversions, and reduced lake levels. Water quality concerns discussed include those resulting from improper wastewater disposal, high-density agricultural activities, and high concentrations of chlorides. High nutrient and bacteria issues also occur in the upper and lower Central Basin in creeks and reservoirs. The IPP notes that Aquilla Creek and Aquilla Lake have been placed on the State's 303 (d) list for water quality impairments due to high concentrations of atrazine.

According to the IPP, there are few major springs in Brazos G. The three largest springs are Salado Springs, Berry Springs and San Gabriel Springs. TWDB planning rules now require that groundwater supplies not exceed the Modeled Available Groundwater (MAG) values that were determined to meet the desired future conditions (DFCs) of the groundwater source. No water management strategies are recommended that would increase groundwater withdrawal beyond the MAGs established by the county and aquifer. Projected GW conditions are expected to be within the DFCs. DFCs designed to protect the flow of Salado Springs have been adopted. Ultimately TPWD would like to see DFCs adopted to protect additional springs in other areas.

Zebra mussels and aquatic invasive species are not mentioned in the IPP. Please include updated information to help clarify the present status of zebra mussels in Texas. The present known distribution (as of July 27, 2015) of zebra mussels in Texas reservoirs includes two reservoirs in Brazos G: Lake Waco and Belton Reservoir. Other reservoirs in Texas with known zebra mussels include Texoma, Lake Ray Roberts, Lewisville, Bridgeport, and Lavon. Zebra mussels have also been found on isolated occasions in the Red River below Texoma, the Elm Fork of the Trinity River below Lake Ray Roberts, Sister Grove Creek above Lake Lavon, and a boat with zebra mussels attached was found in Lake Ray Hubbard. Transporting zebra mussels is illegal. To prevent the transmission of invasive species TPWD recommends avoiding transport of water from basins where these species are known to occur. If this is unavoidable these transfers of water should be directly to water treatment plants.

According to the IPP, new reservoirs (Lake Creek Reservoir, Cedar Ridge Reservoir, Throckmorton Reservoir, Turkey Peak Reservoir, Coryell County Off- Channel Reservoir, City of Groesbeck Off-Channel, Little River Off-Channel Reservoir, and Brushy Creek Reservoir) will inundate more than 17,400 acres, reducing wildlife habitat including bottomland hardwoods forest. TPWD has concerns about reservoirs impacts to fish and wildlife, especially main-stem reservoirs like Cedar Ridge Reservoir. The proposed Cedar Ridge Reservoir in Shackelford County on the Clear Fork of the Brazos River would inundate 6,635 surface acres at the conservation pool elevation. The IPP notes the importance of flow variability to the instream biological community as well as the riparian community. Even though the project was evaluated using environmental flow standards adopted by TCEQ, streamflow variability downstream will be altered substantially and median monthly flows reduced significantly (Figure 4.2-4). The reservoir could also potentially affect up to 27 threatened, endangered, and rare species, including the recently listed federally endangered Smalleye Shiner *Notropis buccula* and Sharpnose Shiner *Notropis oxyrhynchus*.

If constructed, Cedar Ridge Reservoir would impound fresh water from the Clear Fork of the Brazos, reducing fresh water inflow into Possum Kingdom. Possum Kingdom presently experiences issues arising from golden algae. Scientific evidence demonstrates a link between increasing levels of salinity and toxic blooms of golden algae. The Clear Fork of the Brazos contains lower levels of dissolved salts and minerals than the Salt Fork and the Double Mountain Fork. Without the current flows from the Clear Fork, TPWD expects concentrations of dissolved salts and minerals in Possum Kingdom and releases from Possum Kingdom to increase. If Cedar Ridge is constructed, it would also appear that lake levels at Possum Kingdom will experience greater fluctuations.

TPWD staff recognizes the water supply constraints caused by natural salt brine springs. These water sources contribute to environmental conditions in the upper Brazos drainages that support a unique prairie stream ecosystem. Alterations in hydrologic and water quality conditions due to reservoir construction and operation, water diversions, control of brine sources, and consequent effects may disrupt the dynamics of the unique ecosystem and render habitat unsuitable for species adapted to prairie streams, including pupfish, killifish and minnows. Once known from throughout the Brazos River and its major tributaries, two prairie stream minnows, Smalleye Shiner *Notropis buccula* and Sharpnose Shiner *Notropis oxyrhynchus,* are now largely restricted to the drainages of the upper Brazos River (upstream of Lake Possum Kingdom) and have recently been listed as endangered by the U.S. Fish and Wildlife Service.

The IPP does not recommend any stream segments be nominated as ecologically unique. No explanation is provided for the lack of recommendations. TPWD continues to see importance in recommending and designating significant stream segments and will support Brazos G in this regard if requested in the next planning cycle.

We appreciate the opportunity to provide these comments. While TPWD values and appreciates the need to meet future water supply demands, we must do so in a thoughtful and sound manner that ensures the ecological health of our state's aquatic and natural resources. If you have any questions, or if we can be of any assistance, please feel to contact Cindy Loeffler at 512-389-8715. Thank you.

Sincerely,

Ross Melinchuk
Deputy Executive Director, Natural Resources

RM:CL:ms

cc: Craig Bonds, Division Director, Inland Fisheries Division, TPWD
Clayton Wolf, Division Director, Wildlife Division, TPWD
Jennifer Bronson-Warren, Water Resources Branch, Coastal Fisheries Division, TPWD

Brazos River Authority

August 21, 2015

Mr. Wayne Wilson
Chair
Brazos G Regional Water Planning Group
P.O. Box 7555
Waco, Texas 76714

RE: Brazos River Authority Comments on 2016 Initially Prepared Brazos G Regional Water Plan

Dear Chair Wilson:

The Brazos River Authority (BRA) appreciates the efforts of the Brazos G Regional Water Planning Group (Brazos G), the Texas Water Development Board (TWDB), and the many others that have contributed their time and resources to develop the 2016 Initially Prepared Brazos G Regional Water Plan (2016 IPP) and the opportunity to provide comments on the 2016 IPP. I also want to thank you for your leadership and commitment as Chair of Brazos G and the effort you and the other voting members devoted to this planning process.

As you know, the BRA is committed to working through the regional water planning process with our customers and other Brazos River basin stakeholders to address the challenges of meeting future water needs in the Brazos G region. The Plan that has been developed will provide the framework for meeting those needs over the next 50 years.

We have reviewed the 2016 IPP and offer the attached suggestions, comments, and questions (Attachment A) for consideration in finalizing the 2016 Brazos G Regional Water Plan.

In addition to the attached comments, the BRA would also like to emphasize its position on several major points and assumptions that are contained in the 2016 IPP. These include subordination of BRA supplies, BRA's System Operation Permit, and the proposed Little River Off-Channel Reservoir (LROCR) water management strategy.

Subordination

Brazos G's consultant, HDR, Inc., has assumed that BRA can subordinate its water supplies for certain upstream reservoir projects recommended in the 2016 IPP. In some cases, the feasibility of these water management strategies is dependent upon a subordination agreement with BRA.

The BRA wants to make Brazos G and HDR, Inc. aware that all of BRA's existing water supplies are fully contracted, so subordination agreements for these reservoir projects may not be possible as the water is already committed to BRA long-term water supply customers. The BRA requests that Brazos G and HDR, Inc. include a caveat in every water management strategy that assumes a subordination agreement with BRA that clearly states subordination may not be possible.

System Operation Permit

There are frequent references that subordination for some recommended water management strategies will be possible upon issuance of BRA's System Operation Permit. It is possible that this may be the case in some circumstances, but it is not a certainty and will have to be further evaluated on a case-by-case basis. BRA does not want sponsors of other recommended water management strategies to assume that a subordination agreement with BRA is "automatic." The System Operation Permit may offer no additional solution to subordinations.

Additionally, it appears that the volume of water resulting from use of the BRA System Operation Permit as a recommended water management strategy exceeds the amount discussed by BRA and HDR, Inc. earlier in the planning cycle. BRA believes that the total amount of water assumed to be available from the System Operation Permit as a recommended water management strategy should not significantly exceed the volume contained in the 2011 Plan until effects of the recent drought are evaluated. We strongly recommend that HDR, Inc. revisit the use of BRA's System Operation Permit as a recommended water management strategy to address this concern.

Little River Off-Channel Reservoir

The BRA is identified as the default sponsor for the LROCR because it is the major wholesale water supplier for much of the Brazos G region. Since the project's inception, there has been significant local opposition to the project.

Later this year, Brazos G will decide whether to remove the project or leave it in the final 2016 Brazos G Regional Water Plan as a recommended water management strategy. If Brazos G opts to leave the LROCR project in the 2016 plan, the BRA has no objections to being listed as the sponsor for planning purposes. However, I want to clarify that the BRA's Board of Directors has taken no action directing BRA staff to implement this reservoir project.

Thank you again for the opportunity to provide comments. The BRA looks forward to completing the 2016 Brazos G Regional Water Plan and continued participation in the regional water planning process. Please contact my office if you have any questions.

Sincerely,

Phil Ford

Phil Ford
General Manager/CEO

PF:kld
Attachment

Attachment A

Brazos River Authority Comments
2016 Brazos G IPP (Dated May 2015)

BRA has identified two potentially significant issues within the 2016 Brazos G IPP that are associated with BRA's role as a wholesale raw water provider.

1. Strategies that involve subordination of BRA's existing water rights, and

2. Allocation of supply under the System Operation Permit.

Strategies that involve subordination of BRA's existing water rights

A number of strategies within the IPP either assume subordination of BRA's water rights and/or state that a subordination agreement from BRA may be needed if a certain strategy is implemented. A list of instances where BRA subordination is referenced within the IPP is provided below, but this may not be an exhaustive list.

BRA's existing water supply system is fully contracted, so new subordination agreements with entities may not be possible due to the supply already being committed to long-term water customers. The BRA requests that Brazos G and HDR, Inc. include a caveat in every water management strategy that assumes a subordination agreement with BRA that clearly states subordination may not be possible.

Comments and locations within the IPP that are associated with general subordination of BRA water rights:

a. Volume II, Page 4.3-1: Coryell County Off-Channel Reservoir is a project whereby a subordination agreement at Lake Belton must be implemented in order for the project to be viable.

b. Volume II, Pg. 4.4-4, Third paragraph: Suggest including additional information that states that the diversion amounts from the Navasota River into the off-channel reservoir will not exceed the original water right for the City. Any additional water diverted above the prior authorization could require subordination of BRA's water rights or a contract with the BRA for that volume of water, provided that BRA has water in that location available.

c. Volume II, Page 4.5-1: First paragraph discusses the need for BRA subordination at Lake Belton.

d. Volume II, Page 4.5-3, First paragraph: This paragraph discusses BRA subordination of Lake Belton water rights.

e. Volume II, Page 4.10-1, Section 4.10.1, Second paragraph: The discussion states that a subordination agreement with Possum Kingdom Reservoir would allow for these inflows to be impounded by Lake Creek Reservoir and it goes on to state that "*Any subordination agreement with the BRA is dependent on the BRA being able to successfully obtain the System Operation permit (See Section 7.12), currently pending at the Texas Commission on Environmental Quality. A subordination agreement would have to be negotiated and acquired for this strategy to be implemented as presented in this section.*"

f. Volume II, Page 4.10-4, First paragraph: This paragraph discusses subordination in the context of the yield impact that the Lake Creek Reservoir project has on Possum Kingdom Reservoir. The second sentence states "*....the Possum Kingdom subordination (subject to BRA obtaining the System Operations permit) and the Brazos River diversions.*" The second to the last sentence in this paragraph again ties any subordination agreement to the System Operation permit.

g. Volume II, Page 4.10-16: First sentence, states "*The project may also have an impact on the firm yield of Possum Kingdom, which may require mitigation with the Brazos River Authority in terms of a water supply contract in the amount of the firm yield impact.*"

h. Volume II, Page 4.14-18, Section 4.14.5 Implementation Issues: Second paragraph states, "*The project may also have an impact on the firm yield of Navasota River, which may require mitigation with the Brazos River Authority in terms of a water supply contract in the amount of the firm yield impact.*"

Subordination dependent upon BRA obtaining the System Operation Permit

Additionally, during the review of the IPP it was observed that numerous locations within the plan referenced subordination of BRA water rights and cited a dependency of the subordination on the BRA obtaining the System Operation Permit. A list of instances that reference subordination and the dependency of BRA obtaining the System Operation Permit can be found below. Again, it should be noted that this may not be an exhaustive list of each occurrence.

Obtaining the System Operation Permit does not automatically guarantee that a subordination agreement will be possible. There are a number of factors that

would need to be more fully evaluated, and in many cases, the System Operation Permit may offer no additional solution to subordinations.

Comments and locations within the IPP concerning subordination agreements dependent upon BRA obtaining the System Operation Permit:

a. Volume I, Page 5.14-1, under City of Haskell's water supply plan and cost source for Lake Creek Reservoir: Bullet states that the *project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operation permit.*

b. Volume I, Page 5.14-2, under City of Haskell's water supply plan and cost source for Millers Creek Reservoir Augmentation strategy: Bullet states that the *project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operation permit.*

c. Volume I, Page 5.14-3, under City of Rule's water supply plan under Lake Creek Reservoir and Millers Creek Reservoir Augmentation strategy by NCTMWA: Bullet states that the *project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operation permit.*

d. Volume I, Page 5.14-4, Haskell County-Other: Under Millers Creek Reservoir Augmentation strategy by NCTMWA: Bullet states that the *project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operation permit.*

e. Volume I, Page 5.20-2, first bullet at top of page: Bullet states that the *project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operation permit.*

f. Volume I, Page 5.23-3, Groesbeck Off-Channel Reservoir – bullet immediately beneath cost source: Bullet states that the project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operation permit.

g. Volume I, Page 5.32-2: *....Project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operations permit.*

h. Volume I, Page 5.34-2: *....Project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operations permit.*

i. Volume I, Page 5.38-16: ....*Project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operations permit.*

j. Volume I, Page 5.38-29, bullet c, Coryell County Off-Channel Reservoir: Bullet states....*Project requires a subordination agreement with the BRA, which is dependent on the BRA obtaining the System Operations permit.*

k. Volume II, Page 4.4-16 – 4.4-17: The sentence reads: *Note that any subordination agreement would need to be negotiated with BRA and is dependent on the BRA successfully obtaining the System Operations permit from the TCEQ. Compensation could be required to BRA as part of the subordination agreement.*

l. Volume II, Page 4.10-1, Section 4.10.1, Second paragraph: The discussion states that a subordination agreement with Possum Kingdom Reservoir would allow for these inflows to be impounded by Lake Creek Reservoir and it goes on to state that *Any subordination agreement with the BRA is dependent on the BRA being able to successfully obtain the System Operation permit (See Section 7.12), currently pending at the Texas Commission on Environmental Quality. A subordination agreement would have to be negotiated and acquired for this strategy to be implemented as presented in this section.*

m. Volume II, Page 4.10-4, First paragraph: This paragraph discusses subordination in the context of the yield impact that the Lake Creek Reservoir project has on Possum Kingdom Reservoir. The second sentence states ....*the Possum Kingdom subordination (subject to BRA obtaining the System Operations permit) and the Brazos River diversions.* The second to the last sentence in this paragraph again ties any subordination agreement to the System Operation permit.

n. Volume II, Page 4.10-14, last sentence in paragraph: Another sentence that states that a subordination agreement is dependent on the BRA successfully obtaining the System Operations permit from TCEQ.

o. Volume II, Page 4.10-16, last bullet point under the State and Federal Permits may require the following studies and plans: The bullet states *Coordination with BRA on any potential subordination agreement, subject to availability under the System Operations permit.*

p. Volume II, Page 4.12-1, Section 4.12.2, Second paragraph: Discusses subordination of Possum Kingdom Reservoir and the dependency of subordination with obtaining the System Operation permit.

q. Volume II, Page 4.12-11, Section 4.12.4: Another area discussing subordination and the System Operation permit.

r. Volume II, Page 4.12-13, Section 4.12.5: Last bullet, under *State and Federal Permits may require the following studies and plans*, discusses subordination subject to availability under the System Operation permit.

s. Volume II, Page 7.5-5, Last paragraph: This paragraph discusses subordination for the yield impact on Possum Kingdom Reservoir and the dependency of the subordination on the BRA being able to successfully obtain the System Operation permit.

t. Volume II, Page 7.5-12, First paragraph: Additional discussion regarding subordination and the dependency of the subordination on the BRA being able to successfully obtain the System Operation permit.

u. Volume II, Page 7.5-13 under Engineering and Costing: Additional discussion on subordination and the dependency of the subordination on the BRA being able to successfully obtain the System Operation permit.

v. Volume II, Page 7.5-15 under State and Federal Permitting Requirements: last bullet discusses subordination and the dependency of the subordination on the BRA being able to successfully obtain the System Operation permit.

System Operation Permit Water Supply Allocations

It appears that the BRA System Operation Permit is a recommended water management strategy for various water user groups totaling 166,952 acft/yr. This value includes the System Operation Permit supply recommended in both the Brazos G and Region H planning areas.

In a meeting between BRA and consultants for Brazos G and Region H it was discussed that the new supply from the System Operation Permit strategy be limited to roughly what was included in the previous 2011 regional water plans.

It was further explained that the reason for keeping the allocations consistent with the previous plans is associated with possible decreases in water availability under System Operations due to the recent drought. The previous plans included 25,350 acft/yr of supply for entities in Region H and 84,899 acft/yr of supply for entities in Brazos G. This sums to 110,249 acft/yr of total supply from System Operations. The supply allocated to System Operations in the 2016

Brazos G IPP appears to be almost 57,000 acft/yr more than the 2011 Brazos G Plan.

BRA plans to initiate a hydrologic analysis that will evaluate the most recent drought and study the impact of the drought on the BRA System, but the results of this analysis will not be available in time for inclusion in the 2016 regional plans.

Therefore, BRA recommends that the Brazos G consultant revisit the use of BRA's System Operation Permit as a recommended water management strategy and limit the new supply to a volume closer to the 84,899 acft/yr that is contained in the 2011 Brazos G Plan.

Volume I

Executive Summary

a. Page ES-2: Correct formatting on last bullet point.
b. Page ES-4: Update name of LCRA and TDA non-voting representatives.
c. Page ES-15, last paragraph, last sentence: This sentence notes Appendix M as a detailed listing of water management strategies. Appendix M contains Water Availability Modeling Files not the detailed listing of water management strategies.

1. Region Description

a. Page 1-4: Remove "Error..." statement from paragraph.
b. Page 1-4: Remove "Error..." statement from voting member table.
c. Page 1-5: Update name of LCRA and TDA non-voting representatives.
d. Page 1-60: First bullet point, update font style of "is" in sentence.
e. Page 1-60: 2001 Plan new reservoir bullet list; are colons (:) needed after each bullet point?
f. Formatting error found in Title heading of Table 1 on page 1-4.

2. Demands

a. Page 2-40: Title for Section 2.3.4 seems inconsistent with other titles and the first paragraph under 2.3.4 is repeated under 2.3.5.
b. Section 2.3.4, Page 2-40: The title of this section appears to be a sentence from the paragraph above (Section 2.3.3). The table of contents also needs to be corrected to include the correct title of this section. It appears that this entire section needs to be deleted. Recommend removing the text that begins with the sentence "The steam-electric generation process uses water in boilers and for cooling." And goes to just before the Table 2-6 begins. This paragraph repeats in the appropriate place just below this table in Section 2.3.5.
c. In Table 2-7 on page 2-43: Historical and Projected Steam-Electric Water Demand in the Brazos G Area, it appears that the projected steam-electric

water demand for Somervell County in 2020 was inadvertently copied left into the historical 2010 column. The historical 2010 steam-electric water use for Somervell County should be on the order of 40,000-50,000 acft.

3. Supplies

a. Page 3-16 formatting: Table 3.1-3. Move "Aquilla Water Supply" to top of table on page 3-17.
b. Page 3-17 formatting: Table 3.1-3. Move "Central Texas WSC" to top of table on page 3-18.
c. Page 3-32: First paragraph section 3.2.4, "Appendix G" is highlighted.
d. Page 3-56: Formatting of reference to Figure 3.4-6 in second sentence of first paragraph.
e. Page 3-57: Formatting of first paragraph, section 3.4.4.
f. Page 3-11, Table 3.1-1. Major Reservoirs of the Brazos River Basin. Priority date for Lake Abilene is listed in the future (1/23/2018).
g. Table 3.1-3 in the BRA (main stem) section: Footnote 1 is incorrectly noted with a superscript indicator in the table by the City of Lubbock. A superscript indicator for footnote 2 in the table was not found. The superscript for footnote 3 is difficult to read, placement and font sizing may need to be adjusted.
h. Table 3.2-2.: Footnote number 3 concerning Lake Davis does not have a superscript indicator in the table next to the text that this references.
i. Table 3.5-1. The superscript indicator for footnote No. 2 in the table is difficult to read as it appears to be cut off by the formatting of the table borders.

4. Identification of Needs

a. Section 4.3.1 Brazos River Authority, Page 4-13, Second paragraph, second sentence: This sentence needs to be clarified further. Suggest including the following text at the end of this sentence. *.....all of these contracts are long term and considered perpetual through 2070* ***for regional water planning purposes. However, in reality, the BRA will consider contract renewals on a case by case basis as contracts expire.***
b. Page 4-15, Table 4.3-1. Projected Demands, Supplies and Balance for BRA. Regarding the comment that the shortages are largely overstated because it includes some irrigation and mining demands that will go unmet. Suggest specifying, possibly in a footnote in this table, how much irrigation/mining demands will go unmet and where these demands are located.
c. Page 4-36, Table 4.3-22. Footnote 2 doesn't have a superscript indicator in the table.

5. County Plans

a. Page 5.1-7. The last sentence under the description of supply for Fort Hood refers to Table 5-1.1. The table referenced should be Table 5.1-7.
b. Page 5.1-10. First sentence under the Water Supply Plan references City of Lorena instead of City of Killeen.
c. Table 5.1-15. Recommended Plan Costs by Decade for Bell County – Steam Electric. Data appears to be missing from portions of this table.
d. Table 5.1-16. Recommended Plan Costs by Decade for Bell County – Mining. Same comment as comment 4 above.

e. Page 5.24-11, Section 5.24.13 City of McGregor: Recommend revising to read "...from surface water from Lake Belton via *a contract with the Brazos River Authority.* Bluebonnet WSC *treats and delivers water to the City from Lake Belton.*
f. Page 5.36-13, Section 5.36.12 Jarrell-Schwertner WSC: Suggest mentioning the contract that Jarrell-Schwertner WSC holds with BRA for water in Stillhouse Hollow Lake within this paragraph. They do not currently utilize this contract water.
g. Page 5.36-13, Section 5.36.13 Jonah Water SUD: Suggest rewording the first sentence to say something similar to the following, "Jonah SUD obtains its water supply from groundwater from the Edwards-BFZ (Northern Segment) Aquifer and a contract with the BRA for treated supply through the East Williamson County WTP. Additionally, Jonah Water SUD also holds a long-term water supply contract for water within Stillhouse Hollow Reservoir with BRA.
h. Page 5.36-15, Section 5.36.15 Liberty Hill: Suggest revising the Description of Supply paragraph to include mention of the HB1437 contract water of 600 acft/yr with BRA.
i. Page 5.36-17, Section 5.36.19 City of Taylor: Suggest revising first sentence. "The City of Taylor obtains its water supply from a contract with the Brazos River Authority for water from Lake Granger *through the East Williamson County WTP."*

6. Impacts/Consistency/Protection

a. Chapter 6 appears to be incomplete. Missing page 6-19.
b. Page footers in Chapter 6 reference both May 2014 & May 2015.

7. Drought Response Activities and Recommendations

a. Page 7.1-2, 2nd paragraph, last sentence in 7.1.3 Drought Indicators: Suggest revising the following sentence to clarify the description of the most recent drought. "....; however it also does not capture the entirety of the 2007-2009 drought or the *drought that plagued parts of the region between 2011 and the Spring 2015.*

8. Policy Recommendations

a. Page 8-2: Section 8.3, paragraph indentation not consistent with other sections.

b. Page 8-3: Use consistent enumeration style for each "Issue..." listed in Chapter 8.

11. Implementation with 2011 Plan

a. Page footers in Chapter 11 reference both May 2014 & May 2015.
b. Page 11-1: Section 11.1, first paragraph, second sentence references "TRWDB". Should this be TWDB?
c. Page 11-2: Section 11.2, revise last sentence of section... *(such as... for irrigation supply).*
d. Page 11-9, New Reservoirs paragraph: Does Little River OCR need to be included as a new reservoir?

Volume II

References to "TNRCC" permits in Volume II; update to TCEQ?

- Page 4.9-10, Section 4.9.5 a. & f.
- Page 7.3-51, footnote in Table 7.3-23 (reference may be correct in this instance)
- Page 7.11-8, Section 7.11.4 f.

1. Methodology

a. Page 1.2-2, Section 1.2 – Is the 75/75 criteria for water supply reliability for agricultural needs correctly stated in this section?

3. Reuse

a. Page 3.2-81, Table 3.2-1. The last entry in this table does not specify an associated water right with the application.

4. New Reservoirs

4.2 Cedar Ridge Reservoir

a. Pg. 4.2-1, Section 4.2.2 – Available Yield: First sentence should read, "*The City has applied for a water right.....*"

4.3 Coryell County Reservoir

a. Page 4.3-4 last paragraph. Sentence "The largest change in the Navasota River would....." Navasota River should be replaced with Cowhouse Creek in this sentence.
b. Page 4.3-9 (top of the page, starting on second line) Reference to Table 4.3-2. Endangered, Threatened, Candidate and Species of Concern Listed for Coryell County should be changed to Table 4.3-1. Median Monthly Streamflow: Cowhouse Creek Diversion Site.
c. Page 4.3-1, Section 4.3.2, second paragraph: First sentence of paragraph reads, *This strategy could potential be provided supply under the BRA System Operation permit (See Section 7.12), currently*

pending at the Texas Commission on Environmental Quality. Suggest using potentially in this sentence instead of potential. There are a number of other sentences similar to this sentence throughout Chapter 4 that should be updated regarding the use of potential versus potentially.

d. Page 4.3-4: Line 10, Cowhouse Creek near Pidcock, TX should read Pidcoke, TX.

4.4 Groesbeck Off-Channel Reservoir

a. Pg. 4.4-4, Third paragraph: Suggest including additional information that states that the diversion amounts from the Navasota River into the off-channel reservoir will not exceed the original water right for the City. Any additional water diverted above the prior authorization could require subordination of BRA's water rights. See previous comments regarding subordination above and below.

4.7 Little River Off-Channel Reservoir

a. Page 4.7-20, Bottom paragraph: *Supplies developed and stored in the Little River OCR could potentially be used to meet needs in Williamson County.* Supplies developed by the Little River OCR could also potentially be used to meet needs in Milam County in the 2050 to 2070 timeframe (steam electric demands).

4.8 Main Stem Off-Channel Reservoir

a. Page 4.8-4, Section 4.8.3: Need to restate per Section 4.8.1 that if an entity other than BRA sponsors these projects, then an agreement with the BRA may be required to address concerns related to potential subordination of the BRA's water rights.

4.10 Lake Creek Reservoir

a. Page 4.10-13, Table 4.10-2 Cost Estimate for Lake Creek Reservoir. Is the "Purchase of Water" line item referring to the compensation of yield impacts to PK? If so it lists a system rate of $65.65/acft instead of the current system rate

5. Acquisition of Existing Supplies

5.1 Lake Aquilla Augmentation

a. Page 5.1-4, Third paragraph, third sentence: Suggest rewording *If the yield of Lake Aquilla decreases as indicated by recent BRA analysis…..*to "If the yield of Lake Aquilla decreases as indicated by previous analyses…."

b. Page 5.1-4, Third paragraph, fifth sentence: Suggest rewording this sentence to the following: *This strategy could potential be provided supply under the BRA System Operation permit…..*to "This strategy could potentially be provided supply under the BRA System Operation permit……"

6. Conjunctive Use

6.1 Lake Granger Augmentation

a. Page 6.1-6 (last paragraph) the text states that two test wells were drilled in 2013. Should read that one test well was drilled in 2013.

7. Management of Existing Supplies

7.1 Belhouse Pipeline

a. Page 7.1-3, Section 7.1.2, second paragraph, fifth sentence: *The demands at Lake Georgetown are met by releases from both Lake Stillhouse Hollow and Lake Georgetown.* This sentence should be reworded to read, "Under this strategy the demands at Lake Georgetown are being met by water pumped from both Lake Stillhouse Hollow through the Williamson County Regional Raw Water Line that connects Lake Stillhouse Hollow to Lake Georgetown and Lake Belton through the Lake Belton to Lake Stillhouse Hollow pipeline."

7.2 Brushy Creek Regional Utility Authority

a. Page 7.2-3, Section 7.2.2, Table 7.2-2 Allocation of New Highland Lake Supply in Williamson County: The totals (fifth column) for Round Rock and Unallocated should read 20,928 acft/yr and 3,472 acft/yr, respectively.

7.3 Chloride Control

a. Page 7.3-2, Section 7.3.1, second to the last sentence: The text "Figure 7.3-2" appears twice in this sentence.

7.6 Lake Aquilla Storage Reallocation

a. Page 7.6-1 and 7.6-2. Table 7.6-1 Lake Aquilla Characteristics: It appears that not all of the footnotes to Table 7.6-1 are located at the bottom of page 7.6-2. Footnote 1 appears on the bottom of page 7.6-1. Additionally, it would be beneficial if the footnotes appeared in numerical order within the table. (AA)
b. Page 7.6-4, second paragraph, sixth sentence: *This strategy could potential be provided supply under the BRA System Operation permit (See Section 7.12)……* Recommend using potentially instead of potential within this sentence.
c. Page 7.6-4, second full sentence: It's recommended to use USACE as the acronym for U.S. Army Corps of Engineers instead of USCOE. This is consistent with other sections of the IPP.

7.8 Lake Stillhouse Hollow Reallocation

a. Page 7.8-4, first paragraph, sixth sentence: *This strategy could potential be provided supply under the BRA System Operation permit (See Section 7.12) …* Recommend using potentially instead of potential within this sentence.

b. Page 7.8-5, first paragraph, third full sentence: The font of the text differs in this sentence from the surrounding text.

7.9 Lake Whitney Reallocation

a. Page 7.9-3, second to the last sentence: *This strategy could potential be provided supply under the BRA System Operation permit (See Section 7.12) ...* Recommend using potentially instead of potential within this sentence.

7.10 BRA Sediment Reduction Program

a. Page 7.10-2, last paragraph, last sentence: An extraneous numeral 7 is present at the end of the sentence .....*21 acres of participating cropland7.*

7.11 Brazos River Authority System Operation of Reservoirs

a. Page 7.11-1 through 7.11-2, Section 7.11.1 Description of Option and Section 7.11.2 Available Yield: These sections refer to previous draft permits of the System Operation permit that are currently out of date with respect to the requested authorization. Please refer to the following link on the BRA website that houses information related to the System Operation Permit and Water Management Plan. https://www.brazos.org/SysOpsWMP.asp
b. Page 7.11-2 and 7.11-3: The diversion amount for the expansion at Comanche Peak is referenced as 76,270 acre-feet per year on page 7.11-2 (third paragraph) and 76,120 acre-feet per year on page 7.11-3 (within Table 7.11-1).
c. Page 7.11-3, Table 7.11-1: Water availability numbers for Abilene at Possum Kingdom shows 14,400 acft/year which is different than the City's supply plan (Section 5.38.15) that indicates that the System Operations permit could provide 14,800 acft/yr to the City.
d. Page 7.11-3 – 7.11-4: Based on information in Volume I (Section 5.38.2) and in this section of Volume II (Section 7.11) a total of 166,952 acft/yr of supply is recommended under the System Operations Permit. Based on a meeting between HDR, Freese and Nichols (Region H consultant), and BRA staff, earlier in 2015, it was discussed that the supply from System Operations should be limited to roughly what was included in the previous 2011 regional water plans. The reason for keeping the allocations consistent with the previous plan is associated with possible decreases in yield under System Operations due to the recent drought. The previous plan included 25,350 acft/yr of supply for entities in Region H and 84,899 acft/yr of supply for entities in Brazos G. This sums to 110,249 acft/yr of total supply from System Operations in the 2012 State Water Plan. The supply allocated to System Operations in the 2016 IPP appears to be almost 57,000 acft/yr more than the 2012 State Water Plan. BRA recommends that the supply allocated to System Operation be

reevaluated and adjusted downward to be more consistent with the previous plan.

8. Regional Water Supply Projects

8.1 Bosque County Regional Project

a. Page 8.1-1: First paragraph, third sentence, correct foot-note "1" style.

8.4 West Central Brazos Water Distribution System

a. Page 8.4-1, in paragraph one instead of industrial use, it should be for municipal, irrigation and mining purposes.
b. Page 8.4-1, paragraph two should include the City of Abilene. They have made a request for water and have contracted with BRA for 4,481 AF.
c. Page 8.4-1, paragraph two remove Graham, Shackelford WSC and Stephens Regional SUD from the list. They already have an executed contract with BRA.
d. Page 8.4-1, paragraph two remove the word "industrial."
e. Page 8.4-1, paragraph two reference to Table 8.3-1 should be 8.4-1.
f. Page 8.4-1, paragraph three remove the word "only" in first sentence.
g. Page 8.4-1, paragraph three add the City of Abilene as one of the entities that could be served.
h. Page 8.4-1, paragraph four, remove "for the Midway Group participants: Shackelford Water Supply Corporation (WSC), Stephens Regional SUD, the City of Throckmorton and the City of Breckenridge. The Midway Group provides much of the water in Shackelford, Stephens and Throckmorton Counties," And insert "by several west Texas entities including many from the 2004 study."
i. Page 8.4-1, paragraph four, remove any reference to the Midway Group. Entities are seeking to utilize the existing line and right of way, but are looking to develop treatment options independent of one another.
j. Page 8.4-2, Table 8.4-1, remove "Industrial."
k. Page 8.4-2, Table 8.4-1, Shackelford is now called Fort Griffin SUD
l. Page 8.4-2, Table 8.4-1, neither Shackelford (Ft. Griffin), Breckenridge, Stephens Regional SUD, or Throckmorton have requested additional water.
m. Page 8.4-3, delete Figure 8.4-1 Schematic of Midway Group Interconnections Using the WCBWDS Facilities. This plan is no longer being pursued.
n. Page 8.4-3, paragraph one, successfully instead of "successful."
o. Page 8.4-4, paragraph two, remove any reference regarding the injection of brine water into the WCBWDS. This will not ever be pursued.
p. Page 8.4-4, any reference to Shackelford WSC should be Fort Griffin SUD.

q. Page 8.4-4, paragraph four, Ft. Griffin SUD plans to build their own WTP.
r. Page 8.4-4, paragraph five, remove reference to new regional water treatment plant. There is not one currently in place and will not be constructed. Entities in the area are building their own treatment facilities.
s. Page 8.4-5, Table 8.4-2, remove reference to regional water treatment plant near Breckenridge. Abilene is making upgrades to the WTP in Breckenridge, but those upgrades will benefit Abilene and probably Breckenridge only.
t. Page 8.4-5, Table 8.4-2, For Fish and Wildlife Habitat section, it will be more than a low to moderate impacts if brine effluent is discharged to surface water streams. The Sharp Nose Shiner has already precluded Abilene from discharging in the river above PK. Same comment for Threatened and Endangered Species below.
u. Page 8.4-5, Engineering and Costing, this may no longer be applicable if a regional water treatment plant strategy is not pursued.
v. Page 8.4-7, paragraph 3, "requires" should be requirements.

9. Groundwater

9.2 City of College Station

a. Font style in Table 9.2-2 is inconsistent with other font styles.

9.3 Williamson County

a. Section 9.3.1: Remove hyphens in well production values ...1,500-gpm...
b. Font style in Table 9.3-2 & 9.3-3 are inconsistent with other font styles.

10. Aquifer Storage and Recovery

10.3 Johnson County SUD and Acton MUD ASR

a. Page 10.3-1: 10.3.1 Description of Option: The first bullet point states that the surface water rights in Lake Granbury are owned by Johnson County SUD and Acton MUD. These surface water rights are owned by the BRA. This water is purchased by Johnson County SUD and Acton MUD through a contract with the Brazos River Authority. Johnson County SUD has contracts totaling 9,210 acft/yr with the BRA and Acton MUD has contracts totaling 7,000 acft/yr with the BRA.

CITY OF BRYAN
The Good Life, Texas Style.™

August 20, 2015

Brazos G RWPG Executive Committee
c/o Trey Buzbee
Brazos River Authority
P.O. Box 7555
Waco, TX 76714-7555

RE: Comments on the 2016 Initially Prepared Brazos G Regional Water Management Plan

Dear Region G Board:

Please accept these written comments below in consideration to making changes to the Initially Prepared 2016 Region G Water Plan.

The plan has listed an Aquifer Storage and Recovery (ASR) project for the City of Bryan as an alternative Water Management Strategy due to Modeled Available Groundwater (MAG) limitations for Brazos County. However, the plan lists development of a new well field(s) in the same aquifer as a recommended Water Management Strategy. Moreover, the plan has additional well field development in the same aquifer in Brazos County starting in year 2050. The City of Bryan requests the ASR project be moved from an alternative Water Management Strategy to a recommended Water Management Strategy to take advantage of the production capacity of its permitted Historic use permits and the additional groundwater in the Carrizo Wilcox Aquifer in the Brazos Valley Groundwater Conservation District. Furthermore, the City of Bryan is currently evaluating, at the request of the Texas Water Development Board, a strategy that will use the existing well field to produce enough water in wet years to store in an ASR project that could be used in dry years and increase the firm yield of the well field. The results of this analysis will be ready to present to the Region G engineer in the next few weeks. The ASR Water Management Strategy will be utilized to meet projected demands for the City of Bryan. The ASR project will be utilized to store water for long term increase in firm yield of the aquifer and to meet peak usage. Existing permitted rights and wells will be used for the water supply in this strategy.

Sincerely,

Jayson E. Barfknecht, Ph.D., P.E.
Public Works Director

Dunn, David

From: Dunn, David
Sent: Tuesday, August 18, 2015 10:49 AM
To: 'pswgear@gmail.com'
Cc: Trey Buzbee; Wayne Wilson (wlwilson@tconline.net)
Subject: RE: Brazos G Question/Comment

Mr. Tyson,

In the Initially Prepared 2016 Brazos G Regional Water Plan there is only one reservoir recommended that is located in Milam County – the Little River Off-Channel Reservoir. There were other sites considered for an off-channel reservoir to provide BRA System supply to entities in the planning area. Those are discussed briefly in Section 4.8 of Volume II of the plan. The evaluation of other sites came into being late in the plan development process, as the planning group requested HDR to identify some alternative "Main Stem" off-channel reservoir sites. These were identified as "Main Stem" because they would be supplied with diversions from the main stem of the Brazos River. When the analysis was completed, the Little River Off-Channel Reservoir site was identified as the recommended site, but with diversions from the Brazos River instead of the Little River. There were 14 sites initially identified, and two were identified as being most feasible strictly from a storage perspective. The other site was also in Milam County.

Thank you for your question and your interest in the Brazos G planning process.

David

David D. Dunn, PE
D 512.912.5136 **M** 512.791.3671

hdrinc.com/follow-us

From: BrazosG@brazosgwater.org [mailto:BrazosG@brazosgwater.org]
Sent: Thursday, August 13, 2015 1:19 AM
To: brazosg@brazos.org
Subject: Brazos G Question/Comment

Name:
Randy TYSON

Question/Comment:
Is it true that there are three contingency plans for a reservoir in Milam County, and the intent is that one will be built by 2050, regardless?

Email:
pswgear@gmail. com

Phone:

Preferred Method of Contact:
Email

Trey Buzbee

From: Judge Firth <county_judge@coryellcounty.org>
Sent: Tuesday, June 23, 2015 9:05 AM
To: 'Wayne and Linda Wilson'; David Dunn; Trey Buzbee
Cc: jw@coryellcounty.org; mcwscgv@centurylink.net; Ben Roberts
Subject: Coryell Off-Channel Prioritization
Attachments: 2015-15 RES - Water Planning Priorities.pdf

Mr. Buzbee, et. al.,

Over the past year, communications have been developing between Region G and Multi-County Water Supply Corporation which supports major areas of Coryell County as well as Hamilton and Lampasas Counties. This is important since only Multi-County Water Supply Corporation can comprehensively articulate the challenge of their current situation and growing future challenge. I believe that you will be meeting with them this week...this will be very helpful in making sure that the gravity of their challenge is captured.

Attached is a copy of a Coryell County Commissioners' Court resolution approved yesterday in Court. County leadership is concerned about water availability because of 1) the assessment done by TCEQ on the availability of groundwater in the county as communicated in the PGMA legal action taken against the County, 2) the current and future growth within the county (2010 numbers from Census are not correct because the thousands of military and civilians out of the US in Iraq, Afghanistan, and other counties on April 1, 2010 were not counted in the Census), 3) the facts outlined in the resolution will prompt future growth much more than currently forecast by water planners, and 4) Multi-County is currently not able to support current requests for water....a challenge that will only increase in the years ahead. An off-channel, as presented in the current State Water Plan could address all of these issues.

The off-channel concept was shown to be idea for the location which water planners have studied in Coryell County....for many reasons to include the depth of the location which reduces relative evaporation. What I have heard from those against the off-channel concept is that State water availability would not be enhanced by an off-channel in Coryell county because it would not increase the total capture of water. The irony is that the recent rains have shown just the opposite. In fact, reports that I have heard is that over half of the rain water from the recent rains have already ended up in the Gulf of Mexico. Water captured by a Coryell Off-Channel would have provided a capability to have captured more water for use in Central Texas within several counties...this is especially important given the age, condition, and future challenges at Lake Procter. The state can continue down the path of looking to build more miles of pipe to support areas of Texas, but unless more holding capacity is built, much of the water in future heavy rain events will end up in the Gulf of Mexico. Because off-channels are less expensive to build and can gain permitting much more quickly, they appear to be a logical direction to go to meet future State water needs....and the Coryell County location is reportedly ideal for an off-channel because of the depth of the facility.

As you enter into upcoming project priority discussions, Coryell County leadership asks that Region G consider all aspects of the Coryell Off-Channel project and assign a priority for the project based on those considerations.

John Firth
Coryell County Judge
254 865-5911 x2222

CORYELL COUNTY RESOLUTION NO. 2015 - 15

WATER PLANNING PRIORITIES

WHEREAS, the completion of State Highway 9 from Fort Hood and US 190 into Coryell County, the expansion of construction and activity at North Fort Hood, construction of a regional medical center on Fort Hood and the anticipated increase of retired military personnel locating to areas adjacent to Fort Hood will accelerate the future population growth and water requirements within Coryell County beyond what has been forecast in Regional and State Water Plans; and

WHEREAS, the Texas Commission on Environmental Quality (TCEQ) study supporting the 2008 Central Trinity Aquifer Primary Groundwater Management Area mandate concludes that groundwater in Coryell County will be a critical issue over the next 25 years and beyond; and

WHEREAS, the lack of surface water availability in Western Coryell County (sourced from Lake Proctor) is already negatively impacting the ability to provide surface water to major parts of Coryell County, thus putting more pressure on the future use of critically limited groundwater; and

WHEREAS, water supply corporations supporting most of Western Coryell County, Multi-County Water Supply Corporation, will require an alternative water source in the future and that a Coryell Off-Channel Reservoir in the current State Water Plan could provide the water source to support areas of Coryell, Hamilton, and Lampasas Counties.

NOW, THEREFORE, BE IT HEREBY RESOLVED:

The County of Coryell request that the State Water Development Board and Region G support increasing the priority for the construction of the Coryell Off-Channel Reservoir given the limited known water resources that will be available to Western Coryell County and neighboring counties.

PASSED, APPROVED, AND ADOPTED on this 22nd day of June, 2015 at a regular meeting of the Commissioners' Court, which meeting was held in compliance with the Open Meetings Act, Texas Government Code, 551.001, at which meeting a quorum was present and voting.

APPROVED:

COUNTY JUDGE

ATTEST:

COUNTY CLERK

SFWQ Corporation
A Non-Profit Local Government Corporation
c/o County Judge, 101 North Main Street
Jayton, Texas 79528

August 24, 2015

VIA FIRST CLASS MAIL, FAX TO 254-761-3207
AND EMAIL TO trey.buzbee@brazos.org

Brazos G Regional Water Planning Group
ATTN: Trey Buzbee, Project Administrator
c/o Brazos River Authority
P.O. Box 7555
Waco, TX 76714

Subject: Initially Prepared 2016 Brazos G Regional Water Plan dated May, 2015 (IPP Plan)

Dear Brazos G Regional Water Planning Group:

Please accept this letter as a formal written comment on the IPP Plan, as posted on the Region G website. This comment focuses on Subsection 7.3 of the IPP Plan (referred to as "Section 7.3 or "Control of Naturally Occurring Salinity") in Volume II of the IPP.

Background; Salinity Control Project: The SFWQ Corp. is a non-profit local-government corporation formed by three counties: Garza, Kent and Stonewall. We have been working in cooperation with the Brazos River Authority, the University of Texas at El Paso and the United States Economic Development Administration on advance planning and development for the salinity control project described in Subsection 7.3.

Effect on Water Supply: Table 7.3-24 of the IPP ("Evaluation of Salinity Control Project to Enhance Water Supplies") indicates that the salinity control project is not expected to increase water supply. See lines A.1 and E of that Table However, if the effect of the salinity control project on desalination plants is taken into account, we believe there would be an actual increase in water supply.

Technical literature indicates that the TDS levels in the influent of desalination plants strongly affect the water recovery rates of the plants (expressed as a percentage of the influent recovered for use). *See, e.g.*, Xu, et al., "Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use," *ENVIRONMENTAL ENGINEERING SCIENCE*, Vol. 30, Number 8, 2013 (referred-to in these comments as "Concentrate Management"). Here is an excerpt from that paper:

TABLE 1. SUMMARY OF WATER CLASSIFICATION BASED ON SALINITY, TYPICAL WATER RECOVERY, AND POTENTIAL FOR CONCENTRATE VOLUME REDUCTION

Water classification and typical TDS range	*Typical water recovery*	*Concentration factor*	*Range of concentrate quality*	*Potential for water recovery improvement*
Reclaimed water				
TDS 300–1000 mg/L (TOC 5–15 mg/L)	80–85%	5–6.67	TDS 1500–6670 mg/L (TOC 25–90 mg/L)	High
Brackish water[a]				
TDS 500–1000 mg/L	80–90%	5–10	TDS 2500–10,000 mg/L	High
TDS 1000–5000 mg/L	75–85%	4–6.67	TDS 4000–33,000 mg/L	High
TDS 5000–15,000 mg/L	50–80%	2–5	TDS 10,000–75,000 mg/L	Moderate due to high salinity in concentrate
Sea water				
TDS 30,000–40,000 mg/L	40–50%	1.67–2	TDS 60,000–80,000 mg/L	Low due to convenient ocean disposal option

[a]Feed water TDS of current brackish water reverse osmosis plants is typically less than 15,000 mg/L.
TDS, total dissolved solids; TOC, total organic carbon.

Using the water classifications, ranges of TDS and water recovery percentages shown in the table shown above---coupled with the predicted TDS levels and volumes of water shown in Section 7.3 of the IPP---we estimated that the salinity control project would increase desalinated municipal water supplies by 2,475 acre feet per year. See calculation sheet in Appendix A, attached. This estimate may be conservative. Using a different calculation method, Dr. Wesley James estimated an increase of 3,691 acre feet per year. Either way, the increase would be significant, and it would be realized at advantageous locations, i.e., the discharge points from established desalination plants, where there would already be transmission, storage and distribution facilities in place.

We note that the calculated increases would be in addition to any water that may be produced as a byproduct of salt production for the salinty control project. We are studying that possibility. (In July, brine from the project's Salt Creek well was used in a test of water treatment equipment provided by STW Water Resources in Midland. The test produced both salt crystals and fresh water.)

In addition, we believe the salinity control project will produce other benefits that may indirectly increase water supplies, including: (1) decreased corrosion and fouling of water-handling facilities like dam gates and industrial cooling-water facilities, (2) greater usability of un-desalinated water for agriculture, (3) possibly reducing algae "blooms" and fish kills linked to salinity levels, and (4) possibly helping with system operations and mitigation for new reservoirs like Cedar Ridge.

We thank you for the opportunity to comment, and we would welcome the opportunity to meet with you to discuss the project and the upcoming plans. Please feel free to call me (phone 713-253-0919) if we can help in any way.

Sincerely,

Kleber J. Denny, P.E.

Kleber J. Denny, P.E., Project Manager
For SFWQ Corporation

cc:
Mr. Michael McClendon, BRA
Mr. Jeff Sammon, BRA
Mr. Blake Kettler, BRA
Mr. David Dunn, HDR
Directors, SFWQ Corporation
Mr. Dennis Duke
Dr. Wesley James
Mr. Bob Rodgers

Appendix A: Estimated increase in desalinated municipal water supply resulting from salinity control project (at full implementation)

River Segment	A TDS[1] (mg/l)	B Calculated water recovery rate (% est.)	C TDS[2] (mg/l)	D Calculated water recovery rate (% est.)	E Increase in calculated water recovery from project[3] (%, est.)	F Municipal use (acft/yr)[4]	G Increase in desalinated municipal supply[5] (est., acft/yr)
	----------without project----------		----------with project----------				
Seymour to Above Possum Kingdom	6,044	(no proposed desalination)	3,626	(no proposed desalination)	(no proposed desalination)	0	**0**
Lake Possum Kingdom Lake to Above Lake Granbury	1,776	83.06[6]	1,272	84.32[6]	1.26	3,298	**41.6**
Lake Granbury to Above Lake Whitney	1,316	84.21[6]	948	85[6] (or more)	0.79 (or more)	35,644	**281.6**
Lake Whitney to Above Bryan	906	81.88[7]	693	86.14[7]	4.26	18,975	**808.3**
Bryan to Above Richmond	468	81.20[8]	380	84.43[8]	2.23	19,935	**444.6**
Richmond to Gulf of Mexico	346	84.67[8]	317	84.88[8]	0.21	428,136	**899.1**
						TOTAL	**2,475.2**

[1] *Control of Naturally Occurring Salinity*, Table 7.3-11 Model-Predicted TDS Concentration-Duration Curves Without Project, at 50% (median) frequency.
[2] *Control of Naturally Occurring Salinity*, Table 7.3-12 Model-Predicted TDS Concentration-Duration Curves With Project, at 50% (median) frequency.
[3] Column D subtracted from Column B
[4] *Control of Naturally Occurring Salinity*, Table 7.3-23 Cost Estimate Summary for the Total Annual Cost of Desalination Treatment within the Brazos River Basin
[5] Column E multiplied by Column F
[6] Xu, *Concentrate Management*, Table 1 (interpolated within ranges shown for "TDS 1000-5000 mg/l").
[7] Xu, *Concentrate Management*, Table 1 (interpolated within ranges shown for "TDS 500-1000 mg/l").
[8] Xu, *Concentrate Management*, Table 1 (interpolated within ranges shown for "TDS 300-1000 mg/l").

Multi County Water Supply Corporation
P.O. Box 1006
Gatesville, Texas 76528
(254) 865-2269 ~ (254) 248-1113

June 29, 2015

Brazos G Water Planning Group
Attn: Trey Buzbee
P.O. Box 7555
Waco, Texas 76714-7555

Dear Mr. Buzbee,

The purpose of this letter is to make you aware that Multi County Water Supply Corporation would like to be considered as the project sponsor to the Coryell County (Off Channel) Reservoir that is included in the 2011 Brazos G Regional Water Plan. This proposed off channel reservoir will be located in the center of MCWSC's Certificated of Convenience and Necessity.

Multi County Water Supply Corporation understands it has no water rights of its own. We feel it is critical that Multi County WSC be given a high priority status as our only current source of water is Proctor Reservoir. While Multi County Water would still purchase the allotted contracted water from the City of Hamilton, it is the southwestern portions of our system near Ft. Hood that are experiencing the most growth and cannot be served with our present water requirements. We have approximately 1250 customers and maintain nearly 450 miles of water lines in Hamilton, Coryell and Lampasas counties. Without Multi County being a high priority to receive additional amounts of water, a critical shortage will occur and Multi County will be unable to serve the West and South Western portions of Coryell County, in addition to any future growth in Hamilton and Lampasas counties.

On behalf of the Board of Directors and its 1250 members, a sincere request is made that the Region G will recognize the urgency of placing Multi County Water Supply Corporation as the project sponsor on this off channel reservoir.

Sincerely,

Jimmy Wood
President of the Board of Directors

Kate Timmons
Office Manager

Southern Trinity Groundwater Conservation District
420 North 6th Street
P.O. Box 2205
Waco, Texas 76703
254 759-5610
stgcd@att.net

August 15, 2015

VIA EMAIL AND US MAIL

Wayne Wilson, Chair
Region G Water Planning Group

RE: Comments Regarding Proposed Region G – 2016 Regional Water Plan

This letter is in reply to Region G Water Planning Groups request for public comments regarding the Planning Group's proposed 2016 Region G Water Plan. The comments and recommendations contained in this letter are those of the Southern Trinity Groundwater Conservation District (Southern Trinity GCD) which manages the groundwater resources of McLennan County. We appreciate you allowing us to comment on the proposed 2016 Regional Water Plan. Some of the comments contained in this report were presented by Mr. Scooter Radcliffe (general manager of Southern Trinity GCD) during Region G's public hearing in Waco, Texas this June.

Southern Trinity GCD was formed in 2007 and has issued permits for both historical and non-historical groundwater withdrawals from the Trinity and Brazos River Alluvium aquifers. The district is activity promoting conservation of Trinity aquifer groundwater through improvements in water system efficiency, reduction in demand through conservation and increased use of surface water, and use of Brazos River Alluvium groundwater. Southern Trinity GCD is working with the City of Waco and other water users and Baylor University in developing policies and programs that promote the conjunctive use of groundwater and surface water to optimize the amount of water available to McLennan County during surface water shortages and extending the viability of the Trinity aquifer for many decades.
Southern Trinity GCD's current desired future conditions and the associated modeled available groundwater (MAG) for the Trinity Aquifer is 20,640 acre-feet per year. This amount of groundwater is required so that the district has the ability to permit sufficient groundwater water pumping during times of drought while promoting conservation and surface water use during times of adequate surface water supplies. The District currently has a sufficient amount

of unpermitted groundwater available for permitting to communities that do not have access to surface water and are shown in the proposed Regional Plan to have shortages in future years. The Texas Water Development Board's publication *"The Role of Modeled Available Groundwater in Regional Water Planning"* states, in part, that:

> **"the regional water planning process focuses on anticipated pumping volumes in each planning decade rather than on permit volumes."**

Southern Trinity GCD approach and use of the existing Trinity Aquifer MAG is consistent with this role and allows our permitted volumes to be equal to or less than the MAG while promoting long term conservation of the aquifer through reduced pumping during times of adequate surface water supplies.

We appreciate the opportunity to comment on the regional water plan and wish to thank you and all members Region G for their time and hard work on the draft plan.

Sincerely,

Rodney Kroll

Rodney Kroll, President
Southern Trinity Groundwater Conservation District

CC: Southern Trinity Board Members, Scooter Radcliffe, General Manager

Trey Buzbee

From: stgcd <stgcd@att.net>
Sent: Tuesday, June 23, 2015 11:51 AM
To: Trey Buzbee
Subject: Brazos G Meeting
Attachments: Public Hearing comments for Brazos G meeting.docx

Trey,
Attached is a copy of the comments I read for the record. Would you place this with the other documents for the hearing.
Thanks
Scooter
STGCD

STGCD Public Comments for Brazos (G) Regional Water Planning Hearing June 23, 2015

My name is Scooter Radcliffe and I am the general manager of Southern Trinity Groundwater Conservation District which manages the groundwater resources of McLennan County. Thank you for allowing me to comment in regard to the proposed 2016 Regional Water Plan.

Southern Trinity GCD was formed in 2007 and issued permits for both historical and non-historical groundwater withdrawals from the Trinity and Brazos River Alluvium aquifers. The district is activity promoting conservation of Trinity aquifer groundwater through improvements in water system efficiency, increased use of surface water and use of Brazos River Alluvium groundwater.

The District is working with the City of Waco, Baylor University, and other water users in developing policies and programs. These programs and policies will promote the conjunctive use of groundwater and surface water to optimize the amount of water available to McLennan County during surface water shortages. This will extend the viability of the Trinity aquifer for many decades.

The District's current desired future conditions and the associated modeled available groundwater for the Trinity Aquifer is 20,640 acre-feet per year.

This amount of groundwater is required so the District has the ability to permit sufficient groundwater water pumping during times of drought while promoting surface water use and conservation during times of adequate surface water supplies.

We appreciate the opportunity to comment on the regional water plan and plan on submitting written comments. Thank you for your time.

Trey Buzbee

From: bezanson@texas.net <janicecrumpbezanson@gmail.com>
Sent: Monday, August 24, 2015 1:22 PM
To: Trey Buzbee
Subject: comments on Brazos G IPP
Attachments: TCA, FBR Comments on Brazos G IPP, with attachment.pdf

Good afternoon, Trey,

Please accept the attached comments from Texas Conservation Alliance and Friends of the Brazos River on the Brazos G Initially Prepared Plan.

Since the deadline is today, we would appreciate your confirming receipt of our comments.

Thank you,

Janice

Janice Bezanson, Executive Director
Texas Conservation Alliance
254-947-5572, Cell 512-327-4119
bezanson@texas.net
TCAtexas.org

Comments on the Brazos G Initially Prepared Plan
Submitted by Texas Conservation Alliance
And Friends of the Brazos River

Texas Conservation Alliance (TCA) and Friends of the Brazos River (FBR) appreciate the opportunity to comment on the Brazos G Initially Prepared Plan.

City of Abilene

Abilene's Future Demand

Table 4.3-13 in the Brazos G IPP projects that in 2070 Abilene will have a demand for treated water of 30,060 AFY and a demand for additional raw water of 29,021 AFY.

This latter figure includes 10,000 AFY of "demand" attributed to the West Texas Water Partnership. The only other reference to this partnership TCA and FBR could find in the Brazos G IPP is contained in Section 1.12 on Page 1-59:

> The City of Abilene and the Cities of Midland and San Angelo (Region F) have formed the West Texas Water Partnership (WTWP) to identify and secure long-range water supplies for the three cities and the surrounding region. Results from ongoing studies will be reflected in future regional water plans.

Water resulting from this partnership would constitute a supply – it should not be listed as a demand on Table 4.3-13. No demand has been identified.

Removing this 10,000 AFY from Table 4.3-13 leaves a raw water demand of 19,021 AFY. Almost all of this is cooling water for hypothetical steam electric power plants in Nolan County.

In fact, no steam electric plants are planned for Nolan County, or in other counties near Abilene. Furthermore, it is extremely unlikely that any new steam electric plans will be planned for this area.

There was in the past a proposal for a coal-fired steam electric plant in Nolan County, the Tenaska Trailblazer plant. Tenaska has formally announced that it will not be built. The reason Tenaska chose Nolan County was an expectation that federal subsidies for carbon capture would make this an economically sound place to locate the plant. When the subsidies failed to develop, plans for the plant were scrapped.

Coal is declining across the entire country. According to the American Association for the Advancement of Science, which publishes the most respected science journal in the country, plans for more than 150 new coal-fired power plants have been canceled since the mid-2000s, existing plants have been closed, and in 2012, just one new coal-fired power plant went online in the United States.

Recent development of wind power in the Abilene area has resulted in a surplus of local electrical generating capacity, necessitating the construction of new power lines to the more heavily populated parts of Texas to the east. If a steam electric power plant were to be built in

the Abilene area, there would be no local demand for the power. Power lines would have to be built for export, making construction of a steam electric plant in this area extremely unlikely.

Texas Conservation Alliance and Friends of the Braozs River are aware that the projected demands for steam electric are generated by the Texas Water Development Board, not by the Brazos G WPG. However, the TWDB guidelines provide for regional planning groups to request adjustments in those projections. The situation in Nolan County is that there is no longer a coal-fired plant proposed nor is there likely to be. TCA and FBR urge you to request that TWDB eliminate the 17,952 AFY for steam electric from Abilene's list of future demands.

Abilene's Supply

To meet Abilene's projected demands, Table 4.3-13 lists three reservoirs with supplies in 2070 totaling 32, 506 AFY.

Abilene's "Constrained" Water Supplies

	2070
Lake O.H. Ivie	4,097
Fort Phantom Hill Reservoir	9,592
Hubbard Creek Reservoir	18,817
Total	**32,506**

This is the so-called "constrained supply", meaning the current water supply is constrained by Abilene's current treatment capacity. This is not a legitimate definition of supply.

A correct accounting of Abilene's current water supply would be as follows:

On Table 3.2-2, the safe yield of Fort Phantom Hill is reported as 16,300 AFY. Abilene has a contract with West Central Texas Municipal Water District for 20,400 AFY. Abilene is entitled to one-sixth of the yield of O.H. Ivie Reservoir. Ivie's yield currently seems to be about 54,000 AFY, making Abilene's portion roughly 9,000 AFY. In addition, Abilene is putting about 7,800 AFY of highly treated wastewater from the Hamby Treatment Plant into Fort Phantom Hill. Totaling these, Abilene's actual current water supply is approximately 53,500 AFY.

Abilene's Current Water Supplies

	2070
Lake O.H. Ivie	9,000
Fort Phantom Hill Reservoir	16,300
Hubbard Creek Reservoir	20,400
Hamby Reuse	7,800
Total	**53,500**

This supply is to be compared with the realistic estimate of future demand of 32,060 AFY.

Even when the hypothetical steam electric power plants are included in the demand, current supplies are adequate to meet those demands.

Obviously there is no need for further water supply for Abilene in the foreseeable future.

Cedar Ridge Reservoir

By inaccurately accounting for supply and demand conditions, the IPP creates an apparent "need" for 29,021 AFY of raw water in 2070, for which the IPP recommends building the proposed Cedar Ridge Reservoir. It is hard to image a more ill-advised course of action.

Not only is there no real need for the water, Cedar Ridge Reservoir would not even be a new source of water supply for the upper Brazos River Basin.

While Cedar Ridge would increase the total storage capacity of the basin, it would also significantly increase the amount of water lost to evaporation. An analysis of the evaporation that would occur from the proposed Cedar Ridge Reservoir, prepared by Trungale Engineering and Science, indicates that the average annual evaporative losses would be roughly 16,000 AFY. Diversion of up to 26,575 AFY plus evaporative losses of 16,000 AFY would reduce the yield of Possum Kingdom Reservoir during the critical drought period by more than the yield of Cedar Ridge Reservoir.

The only advantage of building Cedar Ridge would be to move some of Possum Kingdom's yield upstream closer to possible centers of demand. This could be done more economically by bringing water from Possum Kingdom Reservoir. Water from Possum Kingdom would not have to be treated for the purpose of cooling a power plant. Abilene has two pipelines from Hubbard Creek Reservoir, providing capacity in excess of the municipal supplies Abilene obtains from the reservoir. One could be used to transport water from Possum Kingdom to Abilene. The only cost associated with using water from Possum Kingdom to cool the hypothetical power plants would be transporting the water from Possum Kingdom to the existing pipelines at Hubbard Creek Reservoir. The cost of this pipeline would be a small fraction of the cost of building Cedar Ridge and its associated pipelines.

The citizens of Abilene are being asked to pay $290,868,000 to build Cedar Ridge Reservoir, primarily to meet speculative steam electric demands in Nolan County.

It would be unprecedented and inappropriate for the taxpayers and water ratepayers of Abilene to be called on to build a lake to supply water for steam electric generating purposes. If it were economical for Abilene to develop Cedar Ridge for steam electric, it would be economical for the steam power company to develop it.

Conclusion re Cedar Ridge

It should be clear from the facts above that there is no rational basis for pursuing the proposed Cedar Ridge Reservoir. It should be removed from the Brazos G Water Plan altogether.

A Better Way to Obtain Water from the Clear Fork

Should sufficient demand develop in the Abilene area, a more cost-effective way to use the water that would flow into the proposed Cedar Ridge Reservoir would be to pipe water from the Clear Fork into the Hubbard Creek Reservoir. The proximity of the Clear Fork to Hubbard Creek Reservoir and the existing infrastructure to deliver water to Abilene from Hubbard Creek Reservoir make this a low-cost option.

As the attached cost analysis, prepared by Trungale Engineering and Science, illustrates, the cost of such a project would be roughly $300 per acre-foot, compared to $1,031 per acre foot for Cedar Ridge.

Texas Conservation Alliance
Contact: Janice Bezanson, Executive Director
254-947-5572, bezanson@texas.net

Friends of the Brazos River
Ed Lowe, President
214-358-0612
ed@friendsofthebrazos.org

Hubbard Creek Reservoir Augmentation

Prepared for:

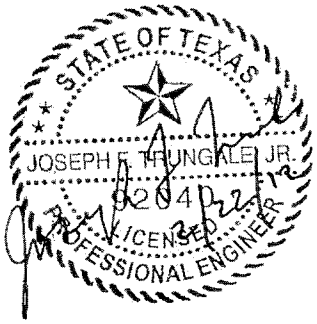
Texas Conservation Alliance

Prepared by:

Trungale Engineering and Science
707 Rio Grande, Suite 200
Austin, Texas 78701

February 2012

Signature Page



Joseph F. Trungale, P.E.

Trungale Engineering and Science

Firm Registration No. F-7692

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1 Hubbard Creek Reservoir Augmentation (utilizing Clear Fork Diversions)

1.1 Description of Option

The proposed project would divert water from Clear Fork to enhance the yield of Hubbard Creek Reservoir located on Hubbard Creek in the Brazos River Basin in Stephens County, about 50 miles Northeast of the City of Abilene as shown in Figure 1 The total reservoir storage capacity of Hubbard Creek at a normal pool elevation is 317,750 acft. Under current conditions, without augmentation from the Clear Fork of the Brazos, the project provides a 2-year safe yield of 27,708 ac-ft/yr.

This Clear Fork augmentation proposal was developed to evaluate this project as an alternative to the proposed Cedar Ridge Reservoir project. Cedar Ridge Reservoir would provide a 1-year safe yield of 23,380 ac-ft/yr. This report assumes a total water supply need of 51,088 ac-ft/yr, the sum of the yields of Hubbard Creek Reservoir and the proposed Cedar Ridge Reservoir as reported in the 2011 regional water plan, and evaluates the availability and cost of providing this yield, on a 1 and 2 year safe yield basis, from Hubbard Creek Reservoir by including supplemental water diverted from the Clear Fork of the Brazos.

1.2 Available Yield

To be consistent with the regional water planning, water supply potentially available from this Hubbard Creek Reservoir Augmentation proposal was estimated using the Brazos G mini-WAM. The model utilized an updated January 1940 through June 2008 hydrologic period of record to account for the recent drought in the Upper Brazos Basin. Estimates of water availability were derived subject to general assumptions for application of hydrologic models as adopted by the Brazos G Regional Water Planning Group and summarized in the regional water plan. Safe yield was computed subject to the reservoir having to pass inflows to meet Consensus Criteria for Environmental Flow Needs instream flow requirements. The streamflow statistics used to determine the Consensus Criteria pass-through requirements for the reservoir are shown in Table 1. (Note: The values provided in Table 1 were estimated based on monthly naturalized flows from the Brazos WAM converted to daily values based on USGS gauge record patterns. In most cases these targets are lower than the consensus criteria values used for the Cedar Ridge evaluation, though that project is upstream of the diversion location for this Hubbard Creek augmentation project.)

In order for the project to provide a sufficient yield to be cost effective, the Brazos River Authority would likely subordinate their water right at Possum Kingdom to the Clear Fork Brazos Diversion to Hubbard Creek.

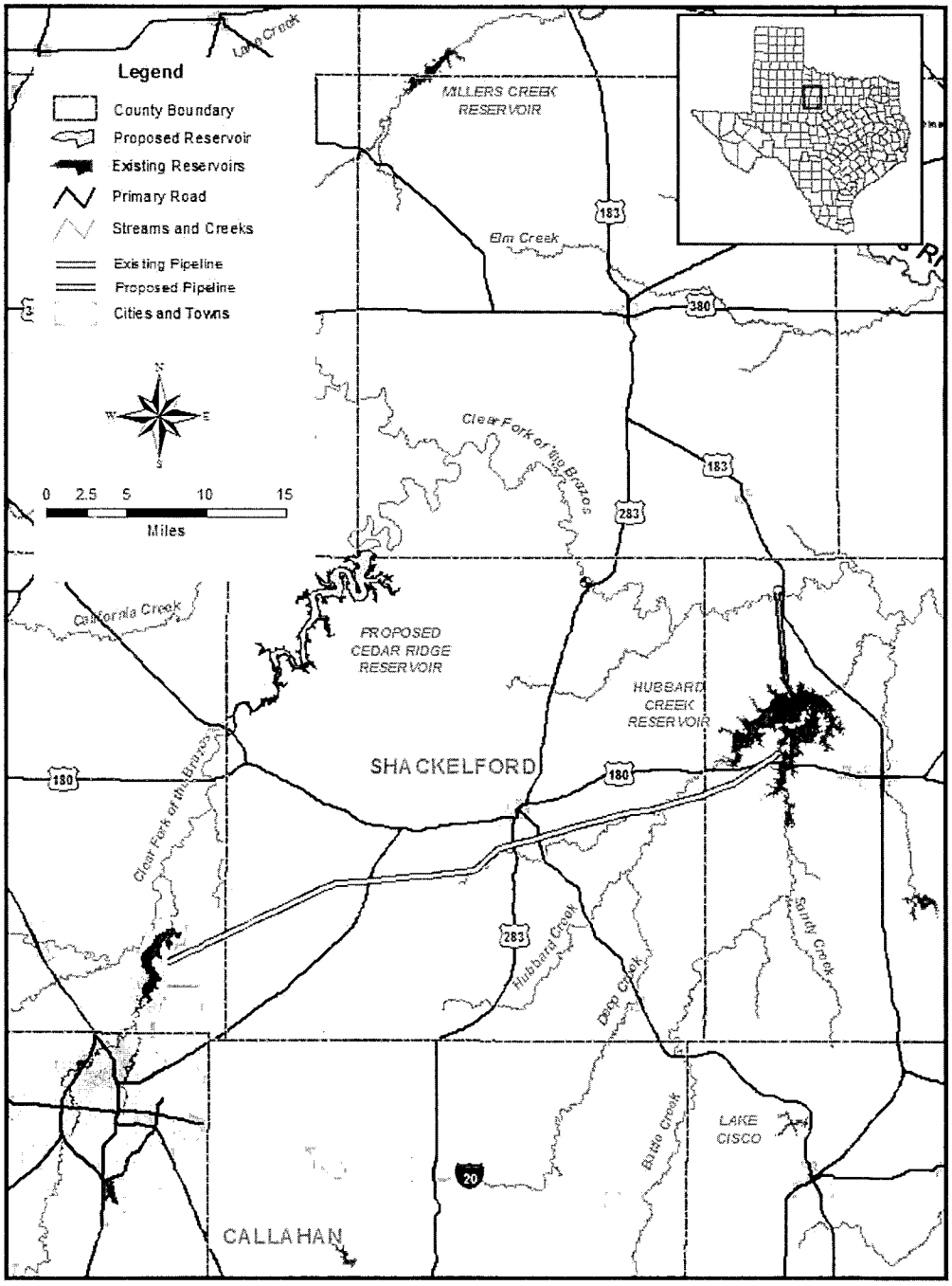


Figure 1 Hubbard Creek Reservoir Augmentation

Table 1 Daily Natural Streamflow Statistics for Clear Fork Brazos

Month	*Median Flows – Zone 1 Pass-Through Requirements (cfs)*	*25th Percentile Flows – Zone 2 Pass-Through Requirements (cfs)*
January	16.6	1.5
February	23.2	6.4
March	26.2	10.5
April	28.9	7.3
May	66.1	9.9
June	92.8	18.8
July	13.2	1.5
August	2.6	1.5
September	12.9	1.5
October	19.4	1.5
November	18.1	1.5
December	15.3	1.5
Zone 3 (7Q2) Pass-Through Requirement (cfs):		1.5

Figure 2 illustrates the simulated Hubbard Creek Reservoir storage levels for the 1940 to 2008 historical period, subject to the 1 and 2 year safe yield of 51,088 acft/yr.

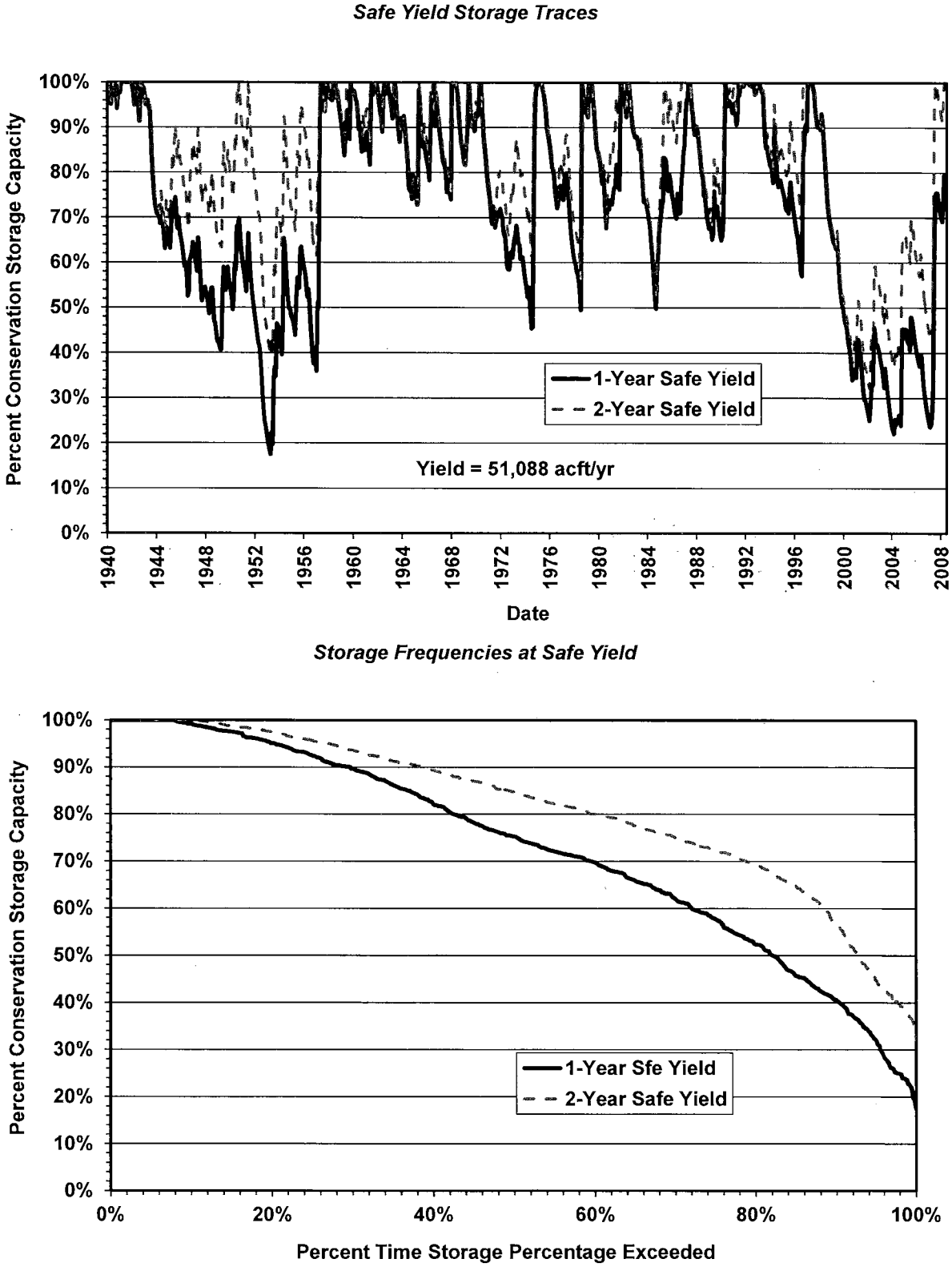


Figure 2 Storage Considerations

Figure 3 illustrates the changes in Clear Fork streamflows caused by impounding the unappropriated waters. Impacts to streamflows are somewhat higher for the 2-year safe yield alternative because more water is needed to maintain reservoir levels.

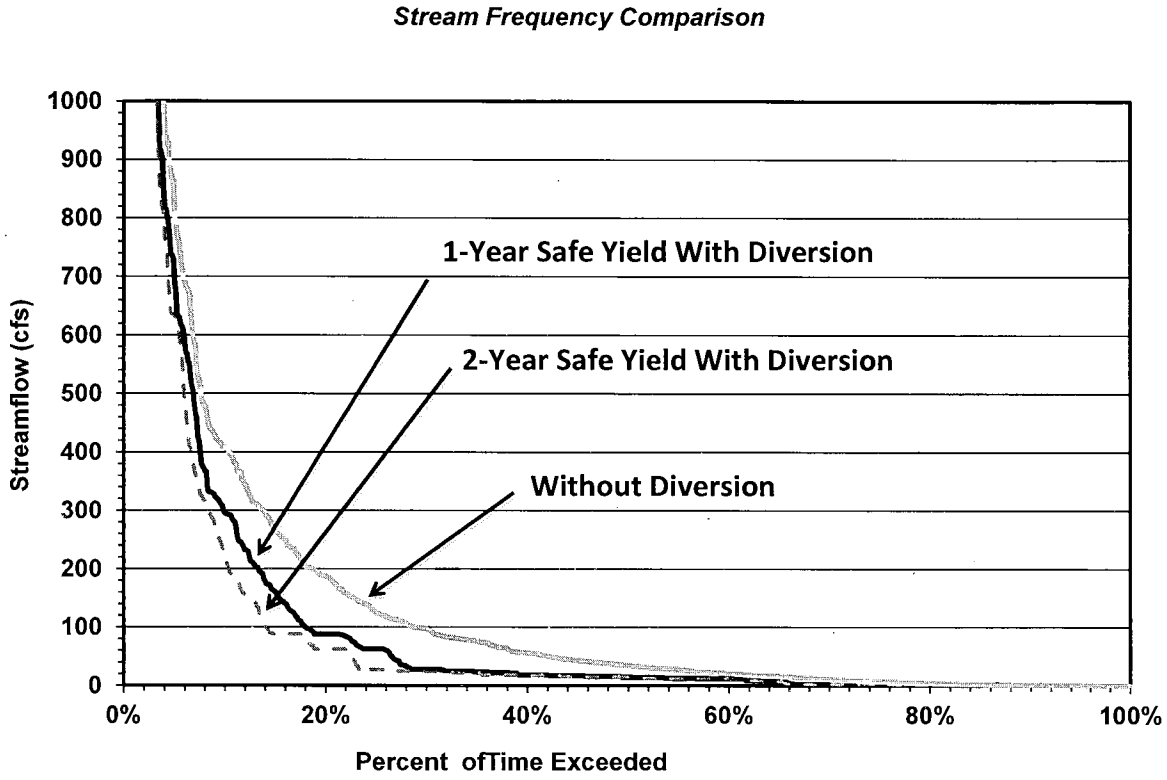


Figure 3 Clear Fork Brazos Streamflow Comparisons

Figure 4 illustrates the annual diversion amount from the Clear Fork required to fill storage under the 1 and 2 year safe yield assumption. Under the 1 – year safe yield alternative a 64-inch diameter pipeline would be used to divert up to 113 cfs or a maximum of approximately 86,000 ac-ft/yr. Under the 2-year safe yield option a 96-inch diameter pipeline would be used to divert up to 252 cfs or a maximum of approximately 192,000 ac-ft/yr. While pipelines and pump stations are sized to meet these maximum volumes, the average annual diversions would be 30,012 and 43,416 ac-ft/yr for the 1 and 2 year safe yield alternatives respectively. Subsequent estimates for annual energy cost, included below are based on these average annual diversions.

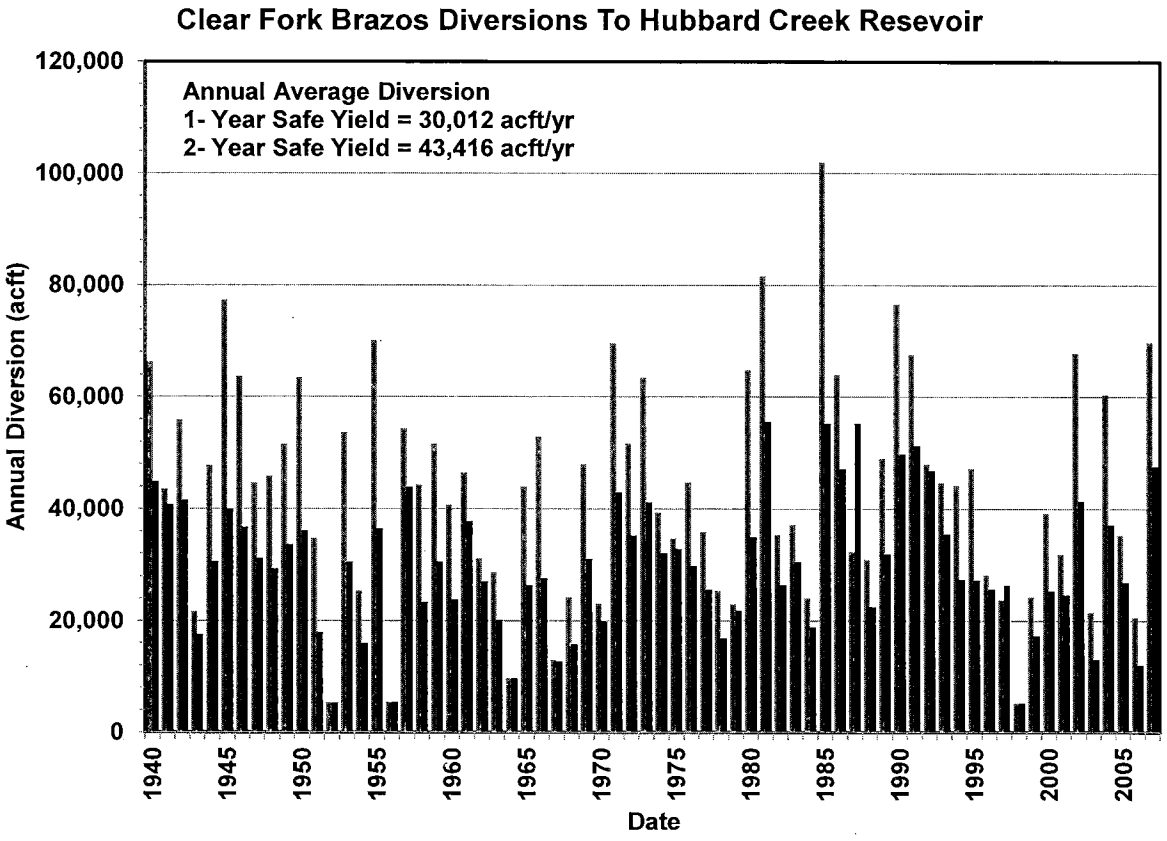


Figure 4 Hubbard Creek Reservoir Safe Yield Diversions from Clear Fork Brazos

1.3 Engineering and Costing

Construction of the Hubbard Creek Reservoir Augmentation would cost approximately $51 million to produce a 1-year safe yield of 51,088 acft/yr or approximately $83 million to produce a 2-year safe yield of 51,088 acft/yr. This includes the construction of pumping facilities, land acquisition, resolution of conflicts, environmental permitting and mitigation, and technical services. The annual project costs are estimated to be $5.0 or 8.2 million for the 1 and 2 – year safe yield respectively; this includes annual debt service and operation and maintenance.

Unit cost of the new supply is based on increase over the baseline yield of Hubbard Creek Reservoir without augmentation from the Clear Fork. According the to 2011 regional water plan the 1-year safe yield for Hubbard Creek Reservoir is 33,305 and the 2-year safe yield is 27,708. Therefore the cost for the additional 1-year safe yield of 17,783 acft/yr translates to an annual unit cost of raw water of $0.87 per 1,000 gallons, or $286/acft. The additional 2-year safe yield of 23,380 acft/yr translates to an annual unit cost of raw water of $1.08 per 1,000 gallons, or

$352/acft. Summaries of the cost estimate are provided in Tables 3 and 4. Costs shown herein are for raw water supply at the reservoir and include no transmission, local distribution, or treatment costs.

Table 2 Cost Estimate Summary for Hubbard Creek Reservoir Augmentation - 1-Year Safe Yield (September 2008 Prices)

Item	*Estimated Costs for Facilities*
Capital Costs	
Intake and Pump Station	$20,241,237
Transmission Pipeline	$13,475,931
Total Capital Cost	$33,717,168
Engineering, Legal Costs and Contingencies	$10,115,150
Environmental & Archaeology Studies and Mitigation	$132,171
Land Acquisition and Surveying	$249,660
Interest During Construction	$7,074,264
Total Project Cost	$51,288,413
Annual Costs	
Debt Service	$3,726,047
Operation and Maintenance	
Pipeline O&M	$134,759
Intake and Pump Stations O&M	$506,031
Pumping Energy Costs	$692,900
Total Annual Cost	$5,059,738
Available Project Yield (acft/yr)	17,783
Annual Cost of Water ($ per acft)	$285
Annual Cost of Water ($ per 1,000 gallons)	$0.87

Table 3 Cost Estimate Summary for Hubbard Creek Reservoir Augmentation - 2-Year Safe Yield (September 2008 Prices)

Item	*Estimated Costs for Facilities*
Capital Costs	
Intake and Pump Station	$31,442,252
Transmission Pipeline	$24,892,492
Total Capital Cost	$56,334,744
Engineering, Legal Costs and Contingencies	$16,900,423
Environmental & Archaeology Studies and Mitigation	$132,171
Land Acquisition and Surveying	$249,660
Interest During Construction	$11,778,720
Total Project Cost	$85,395,718
Annual Costs	
Debt Service	$6,203,906
Operation and Maintenance	
Pipeline O&M	$248,925
Intake and Pump Stations O&M	$786,056
Pumping Energy Costs	$992,201
Total Annual Cost	$8,231,088
Available Project Yield (acft/yr)	23,380
Annual Cost of Water ($ per acft)	$352
Annual Cost of Water ($ per 1,000 gallons)	$1.08

Dunn, David

From: BrazosG@brazosgwater.org
Sent: Friday, July 31, 2015 12:27 PM
To: brazosg@brazos.org
Subject: Brazos G Question/Comment

Name:
William Oliver

Question/Comment:
I hear that the South Bend Reservoir is back up for consideration. I am in favor of this project. With the projected population growth in Texas, the next drought could be catastrophic. Please let me know what steps I can do as a concerned citizen to help push this project forward. Thanks.

Email:
wlodds@gmail.com

Phone:

Preferred Method of Contact:
Email

Mike Conner – I am Mike O'Conner from Milam county and I have a ranch that would be flooded by the reservoir and I represent the property owners of that area. So what I want to do is look at the proposal at a technical level and say basically why it is not a good proposal, it's not cost effective, its high risk and there are better alternatives. First I want to start out with a few things that seem to be errors in the plan and I need to point them out because I am going to use them later on. One of them is that the Williamson County other needs don't match what the plan describes as their needs it should be second set of rows there which are quite different that the 20,000 acre feet of needs. The second is, and I may be misinterpreting this but there is no indication of savings from conservation in any of the areas that are using water from the reservoir that could be that they were just factored in and not broken out like I think or it could be that you put no advanced conservation requirements on them. The supply available to the Brazos River Authority in the plan shows them getting the entire amount of water from the reservoir available water and yet that is in the context of them having shortages and all and only a small amount of that water would be available to them because it dedicates the rest of the water to other users. Finally, the plan says the completion date under the Brazos River Authority Section is to be by 2020 well that's not technically feasible to do by then and we would recommend that if nothing else that date be moved out quite a bit probably to 2060 or 2070. Okay we are first going to look at the costs, I am not going to go through all these numbers, because I don't have enough time, I did make some assumptions, all those assumptions I think are very conservative or they are just taken from documents. So the first thing is to talk about how this thing is to be funded and according by reading between the lines in the plan it looks like the Brazos River Authority pays for the reservoir and then sells the water to Williamson County and other people, what I call the Little River Reservoir users, at their systems rate and then the users of that water pay for the pipeline and water treatment and so on necessary to take advantage of it. Under those assumptions I then looked at the impact this would have on Brazos River Authority's system rate

and of course by the time this might happen things might change but right now it would raise their rates by about 65% and that is being very conservative about how much they could distribute that over. And let me just skip this next one the cost to the users of the water mostly Williamson County is extremely high and especially in the early years and I broke out an example here with Hutto just to show and you see it goes from about a 70% rate increase would be necessary down to about 40% at the end. And the other thing I wanted to do was to look at this and I saying this not efficient and expensive well everything is expensive today but in fact Allen's Creek Reservoir is being planned right now and its costs dollars should be in the same amount of dollars this should be and its at least twice as effective as the Little River Reservoir. And in fact if you look at it from the point of view of the customers of the Brazos River Authority it's like 6 times more effective they get only two percent increase in water at a 60 something percent increase in cost in the system rate verses the Allen Creek which is much less. So in summary it is very expensive and there are better alternatives. The other thing is it is very high risk. Its high risk because of third of the reservoir would actually be over the Carizo Wilcox Aquifer (?) recharge zone there for it could leak into that of is possible at the time of implementation to try to find out if that is going to happen and we might find out it would happen for sure and cancel the project or we might find out it might not. I don't know if we could ever be certain it wouldn't. Landowner resistance is very high and I have a couple of references there to say that we have quite a strong criteria about when this could be implemented and I don't think that criteria could be met. So recommendations would be move the plan out at least, second the better recommendation is to take it out plan and substitute it things that are lower risks and lower costs and particularly conservation and water re-use. Almost all the water growth in Williamson County is coming from municipal use 95+%. That could easily be met by better conservation. Maybe there are some risks to it but not as must risk as there is to this reservoir. And finally I just wanted to summarize the risk there. There are risks in a lot of ways here, one is that if you build this reservoir and the water is not needed you have locked

those users into a very rate increase for no benefit and of course there is the risk of not being able to do it all. Where is with conservation you can evaluate it over time and you could always looks for alternatives if you can't meet the goals you set. Thank you.

Joyce Conner – It should be an automatic slide show. Good morning board members I am Joyce Conner, sorry I was running around. I am representing the land owners in the Little River Off Chanel Reservoir area. My husband Mike and I are relatively new to Milam County but we got here as fast as we could. Mikes great grandparents settled in Grimes County and mine are from the Hill Country. So we were very blessed when we found a beautiful area in between both of them and are extended very large families. And it only took 13 years of searching. We live on just over 700 acres and are sure to lose about 85% due to the flooding and maybe more if it is needed for buffer and mitigation and I am definitely going to tell you there is going to be mitigation. We practice wildlife management and as documentation we have accumulated over 40,000 of plants, animals and management practices that we have taken on our property over the last 12 years. These were culled from at least double that number and at least 75% could have been taken anywhere in the proposed reservoir area. We are committed to be stewards of this land and as stewards we are dedicated to its protection, restoration and improvement and I hope I speak today for all of the other land owners that treasure Milam County land, animals and plants. Some of the things we have done well we have invested over 200,000 additional dollars and countless hours of labor in wildlife equipment, repairs, materials and projects. We have designed a custom built green house by out architect son to reduce impact on the environment. We have retrofitted two man made water ponds. We have maintained over a half mile of pristine Alligator Creek and an undeveloped riparian zone. We have restored 75 out of 600 acres of native oak forest by using mechanical and chemical means to reduce the woody jupon understory. We have made or maintained 20 miles of trails, should I still keep going? We have removed invasive species over two hundred china berry trees and many Ferrell hogs. We have participated State, County and Environmental and Federal agencies on replanting pastures with native seeds for (?) birds. Restoring wooded areas under a conservation easement agreement for the endangered Houston Toad, and we have collected and reported data not only from those 40,000 photos but have

biannual bird surveys by Audubon we have had herpetology surveys we have 40 eastern bluebird nest boxes along the perimeter of our land, we do box turtle watch and project feeder watch, and also we have invited A & M classes to come and help us to identify the historical sites and artifacts. Now we find that our land may be confiscated to a reservoir of water. Is this really necessary? To destroy the surface land as a solution. According to the Texas Water Development Board this year 2015 they said reservoirs were inefficient due to evaporation and the major ones lose as much as 2.3 trillion gallons was water per year. And we know of alternative solutions. As long as we consider any unintended environmental impacts we do have ocean and groundwater desalination, aquifer restore and recovery, new conservation (?). It is also time to rethink everyone water use. Implement stricter water conservation practices and educate citizens on how and why it is important to save water. There is so much these municipalities can do such as using drought resistant plants and xeriscaping. For the environment please revise your water plans and remove the Little River Off Channel Reservoir from them. And I have out of that 40,000 pictures brought about 150 so if you would just like to sit here and look all of these animals and plants are rampant in Milam County. It is the most beautiful place that we could find, thank you.

Wayne Fisher – I am a long time resident of Milam County and Harris County additionally. I represent many concerned citizens of Milam County in connection with proposed reservoir which we for very good reasons hope to explain to you so you will have more information we intensely oppose the creation of this reservoir where it is being proposed at this time. I have as I say been in Milam County for a long time that maybe doesn't mean much to you. Except my family came there is 1857 so we have been there 158 years. And personally I have paid for every acre of land that I have I paid for it myself by the sweat of my brow and working hard, I didn't inherit it. And so having said that there are many other just like me whose heritage and families heritage is founded in Milam County who grew up there whose father whose grandfathers and what is being proposed here is suddenly and with a whole lot of warning a proposal to inundate 3343 acres of the most beautiful scenic area of Milam County and you say I am biased maybe I am but if you will go look at it and I challenge anyone who doubts to go to to to to Farm Road 2095 and come to my place, come to Melvin Wall's place come to Mike Conner's place and many many others and you will see the beautiful rolling hills it is almost like a slice of the Texas Hill Country was lifted up and placed right there uncharacteristically in central Texas. Beautiful cliffs, ravines, dogwood forests. I have open my property up for decades for people to come and tour opened up and people coming from Austin, Taylor, Bryan College Station because of the dogwoods there and by dogwoods I can kiss them goodbye when they are inundated with 6 to 8 feet of water and that may not seem like much to you, for the greater good of other people somewhere why any of you that are here that are complaining you are just like anybody else's property we intend to condemn. Well I say that is not exactly correct. There are all kinds of property that you can condemn for public use. Property, everybody whose property is condemned I will say at the outset they don't like it. And I understand that but when you pristine you're talking about a unique reservoir you are talking about uniquely beautiful property in Milam County that will be destroyed. Homes, barns forests and in addition to that hopes and aspirations of many of the families here whose

roots are deeply in Milam County and this is to send water to other counties. This is not for Milam County well it's for the good and glory of Brazos G so we have to take over here to give over here we understand that but in that process reason and fairness has to be an essential part of the decision making process and and we hope that you will see and come and see what we are talking about. It will destroy Farm Road 2025 which is a major road going from Gause Texas to Highway 79 around to Cameron. And that will disrupt the community there for various reasons. It will also completely destroy county road 343 it gone it won't be there anymore if this is done. It will inundate a United States congressionally approved and designated national historic trail. A United States National historic trail runs right through this proposed reservoir and other will speak in more detail about it that is the El Comino Real National historic trail. The Pin Oak Cemetery a designated Texas historic cemetery with graves going back to 1869 will be totally inundated and we we uh hear well we just move it, we no, it can't be moved. And certainly the feelings of people for those who are buried there can't be moved. There are peat bogs those others will explain this, there are actual Indian artifacts that have been with digs and so forth and people will explain this to you. Camp grounds, Indian artifacts going thought this property. It is opposed by the people who showed up in Gause Texas recently concerned not all were the actual property owners but concerned about what effect this would have on it. Thank you I will just simply say is what this does is cloud the titles of everybody in this entire area because no one can say oh yeah we will sell you this but we have to tell you this is under prospective condemnation. Thank you so much and I am sorry if I exceeded my time.

M. Sheehan – Well good morning my name is DR. Mellissa B. Sheehan I reside in Brazos County and I represented the Bauman, Shafer Sheehan Haun Russell Young and numerous other families today. Together we request that the LROCR be removed from the water plan. What's in a name we see names everyday do you every stop and wonder what a name truly represents. For instance my name, from readying my name one might conclude that I am woman, my name sounds American and I have a doctorate. Beyond that not much else is known until you begin to peel back layers and truly explore the identity beyond my name then you would learn that I represent the fourth generation on my family's land. Land that has been designated by the Texas Department of Ag that property has been continuous ag operation for over a hundred years by the family land heritage program. I am a Christian I love ag in our precious ag environment. I am part of the millennial generation I studied both renewable natural resources and agricultural leadership in college. I am a daughter, mother, sister, wife and friend and every day I go to work at an institution of high education to mold active citizens to serve those in need. As you can see a name is not just a group of letters strung together. A name represents an identity a contributing member of society and collectively our cultural heritage. If the LROCR was to come to fruition engineers at the site would be allowed to dig up names, dig up bodies of my ancestors, our ancestors which are a part of our community cultural heritage and recognized as a historical site in the state of Texas. This historical site I am referencing is the Pin Oak Cemetery. What is significant about this cemetery? Let's look at the numbers. According to the Texas Historical Cemetery Association there are over 9000 cemeteries in the State of Texas and only 1706 are listed as historical cemeteries which means Pin Oak Cemetery is listed among 3 percent of historical cemeteries within approximately 171 million acres in the State of Texas. There are about 130+ graves including 10 graves of civil war soldiers one of which is my great grandfather, one soldier from the Korean War and many more dating back to the civil war era. On a personal note my beloved grandmother was entered there in 2000 and I hope to be buried there too. The Texas

historical commission shared that cemeteries are among the most historical valuable resources. They are reminders of various settlement patterns such as villages, rural communities urban centers and ghost towns. Names on grave markers serve as a directory of early residents and represent the ethnic diversity and unique population of an area. Cultural influence and grave design cemetery decoration and landscaping contribute to the complete narrative of Texas history. So what is a narrative tied to the Pin Oak Cemetery space. What are those layers behind those names? The burial ground that extends along the Pin Oak Creek has served the rural Pin Oak settlement as well as surrounding Gause, Hanover, Liberty, Cameron, Rockdale, and Hearne communities. More so the area settlers who were here by the 1850s took advantage of the areas fertile soil and engage in agriculture. The settlers established a school prior to the civil war that served Pin Oak until it consolidated with the Milano ISD in 1949. So what you don't see and feel when you hear the narrative is the towering old trees the vibrant wildflowers peace and serenity as you sit in the presence of those that poured their hearts and souls into this land. When I close my eyes on a dew kissed morn I feel a slight breeze and can hear my ancestors whisper their sweet memories in my ear. The less (?) of these multimillion dollar projects and what is not shared publicly is how reservoir projects force communities to dig up their ancestors and move them with complete disregard to the community culture, disrespecting the rights of citizens the pursuit of happiness and costing tax payers hundreds of thousands of dollars to make this happen. These names are not just numbers that you can strike through, dismiss or dig up their remains. These names represent real people, lives lost to serve our country, agriculture, Texas History, rich culture, historical significance and will not be forgotten and ignored. Thank you.

Steve Gonzales – I am Steve Gonzales executive director of El Camino Real National Trail (ECRNT) Association. I am based in Austin Texas and I am here with citizens, elected officials from Milam County to speak about the Associations oppositions to the proposed LROCR. Currently my college is passing out letters that voice the disagreement with this project and on the back is a map that shows how the reservoir could affect the trail. The El Camino Real means The Royal Road of the Tejas Indians. Historically the road connected Mexico City with (?) first capital of Texas. This allowed Spanish influence to spread into the province. The road also allow Angelo settlers to head west in the 1800s. It was a major artery of trade and culture. The trail created the cultural diversity of the Texas we know today. On October 18, 2004 the trail was designated as a national historic trail and part of the trail system. This makes this trail a part of the unique trail that have been deemed naturally significant by the US congress. So if you could imagine only 19 events have been deemed significant this road was one of them. ECRNTA is an advocacy group that seeks to restore the integrity of the trail to educate the public about it significance to promote tourism along its path. We work closely with the Nation Parks Service, Texas Historical Commission, Texas Parks and Wildlife Department and the Texas Department of Transportation and others to protect and develop the trail. The proposed LROCR would inundate a stretch of ECRNT in Milam County in the vicinity of Gause Texas. This action with forever alter a nationally significant roadway and destroy an elemental part of our state's history. The ECRNT (?) founding of Texas. In fact it is easy to say that we would not be calling Texas Texas without it today. Therefore our organization along with the citizens of Milam County ask you that you reconsider the proposed inundation as we hope you will see that the project will irreplaceable harm to this historical treasure. I thank you for your time and I ask you not to allow the road that led to the founding of Texas to be forgotten. Thank you.

Judge Dave Barkermeyer – My names if Dave Barkermeyer I Milam County Judge. I am here representing the Milam County commissioners Court and also Mayor Billy Barnett and the City Council of the Milano have asked me to present their resolution as well and here also to present a resolution that has been adopted as well by the Commissioner's Court of Milam County. I am not going to read all the way through both of these resolutions but the resolution that the commissioners Court adopted on June 8 begins by saying Whereas the Brazos G Water Planning Group and/or the Brazos H Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas to export the water to other Counties, and there a number of whereas' that we have commented on here that include the comment made about the ECRNT, the Pin Oak Cemetery, about the flooding of the land of many folks that are sitting this room here. The fact that this reservoir doesn't do anything of significance for us in Milam County. It's all for the benefit of people in other places. And therefore we have concluded our resolution by saying that the Commissioner's Court is opposed to the building of this reservoir either by Brazos G or Region H and myself and other commissioners, Billy Barnet and his city council have sign their resolution and Melissa would you pass these resolutions out to the folks. But as I listen to this man here make his presentation the thing that strikes me is that when we do this planning you do all the consideration of all the needs of these areas that are going to be short on water and you think about what their needs are but I would recommend that you think about the needs of these locations that you thinking about putting these reservoirs. It seems like you have not paid any attention to what our needs are in the communities where you are thinking about placing these reservoirs. And then you wonder why there are several hundred people here today it is because you have not paid any attention to what our needs are.

Linda Hoppe – Good morning my name is Linda Hoppe and I represent Gause ISD. And of course I just want to visit with you a little bit today about some unintended consequences for the school districts in the area. I will start off my telling you that I was the superintendent of Gause for about 10 years up until the time of retirement. My husband and I not in this area that would be flooded but across highway 79. I think that Milano ISD will also have the concerns of lost property tax revenue. And we went to the appraisal district to find out about how much that might because in our conservative community we don't have a lot of money to spend on our schools. So the appraisal district was unable to give us any kind of definite information about revenues lost. But it would include this 3 to 4 thousand acres that would be flooding the pristine land and the beautiful homes in the area. So we have to think about what that would do to the programs. When I started Gause had 50 students. And it's built up to a little over 200 now. And some of those are transfers which brings state money in but if we are unable to continue with our programs and attract new students and transfers and good teachers all of that will be for naught. Oh and just mentioning the bus route on 2095 from Milano and Gause ISD. The school is the life blood of our community I have been there since 1966 in the area I am a new comer and so I just wish you would take that into consideration. We did adopt at our last board meeting and I know we have several board members here a resolution to oppose this because we see if fact I had a little visit with current superintendent and he thought over a ten year period the lost revenue would be in the millions. So you can see what an impact that would have. Thank you.

Dave Cunningham – I am Dave Cunningham and I live in the Gause area and I am speaking about the economic impact in the real estate business. I have been a resident of Gause and a real estate broker for over 30 years. I have involved in property transactions on several thousand acres that are included in the LROCR proposal. I have study the geology, topography the history, both before and after the Anglo settlers. This is a special area, some of the first elevation and topography coming from the Gulf Coast Plains or from Houston you hit in our area its really really pretty and I hope you get a chance to see some of the pictures that have been taken of this particular area. The abundance of wildlife, flora and fauna in Post Oak creates a diamond in Texas. We often told customers you get the beauty of the Hill Country but we have a lot of trees we have a variety of trees not just two kinds of trees we have lots of trees. Lots of beautiful plant life. It has been so rewarding to help so many families that are here today to realize their dream to own land and raise families and retire on a little piece of Texas. They have invested their time and financial futures in this land that is not being threatened. They have hired fence builders, dozer operators, built roads, hired building contractors, hey have spent countless dollars at local hardware stores, tractor dealers and many other merchants in their quest to improve and maintain their part of the Texas dream. Not to mention the thousands of dollars brought into our county and schools through property taxes because of their improvements to their land. These landowners have a tremendous impact on the economy of this area. This proposal has effectively pressed the hold button on the lives of these families. The landowners, if this program is flawed time is of the essence. The landowners and their neighbors are not effectively able to market their property should they be faced with a medical or financial emergency or just need to sell it. They are reluctant to continue spending money in the local economy for property improvements and continuing with future plans for their property investments. These families all have a representable portion of their net worth invested in these properties. The legacy and heritage represented here cannot be measured in monetary worth please release to the hold bottom. For the families left

with land in this area or near this area in the event this is passed there is really no upside. No positive impacts. If they still have access at all as a non recreation non-constant level lake it leaves these joined properties with little hope of market value increases or increased tourism or revenue for the community. Mark Twain said buy land they are making any more of it. I have often said throughout my real estate career when we would look at property and say boy that property really has romance it's going to sell really well. And romance sells. These properties represent the beauty and romance that Milam County has to offer. And they aren't making any more of it. Cedar Hill does not need to be Cedar Hill Island. Twenty Two Hills doesn't need to be Twenty Two Hill sometime islands. Alligator, Pin Oak and Beaver Creeks don't need to the lakes associated with them. With these families sitting on hold I respectfully asked that you make a prompt ruling in favor of these families our community and their financial futures and put a stop to this plan now. Thank you for your time.

Melvin Wall – I am Melvin Frank Wall Gause. I am a landowner with my wife and four children and we will be directly impacted by this reservoir. My granddad purchased the first property in 1914 it has been family owned ever since and hope it will continue to be. We noticed uhhhh my parents noticed that there were a number of Indian artifacts on the property. Come to find out I found out a few years ago that in the original deed purchased by my granddad is designated to include the creek bottom camp ground. We have Indian artifacts to the Palo (?) era as 9 to 10 thousand years all the way up to the Indians were moved from the area. We also have wetlands I have three distinct wetlands areas on the property, spring fed, vegetation I am not a biologist so I don't know. The cattle have trouble walking across it about 9 to 10 months out of the year. Also there is the Lone Star, the remains of the Lone Star peat bog on the property. This will be directly impacted, be gone. As Mr. Fisher was referring to the prettiest country in the state of Texas lies along Beaver and Pin Oak Creeks. We have pin oak trees 60 to 80 foot tall we have sycamore trees along the creek bank 60 to 80 foot tall over a hundred years old. This will all be gone. Is it worth it, is it worth it for the environmental impact. Also we have my wife and I started Light of Christ Ministries some about 11 years ago that is a part of property. It is Christian retreat center set up non-profit organization set up for small churches. My question is how would this be relocated to a facility that would even come an idea of equaling what we have out there what God has provided. We have had churches from all over the area we had a church from Houston, some from Austin area, Waco. How would/could this be replaced. Simply it cannot. My property has been deed to my four children two of them which live on the place and two of them want to build. I thank you very much for your time.

Michael Wall – Thank you very much for letting us speak. I live on property on County Road 343 on the property that was just spoken of. Just turned 38 years old this weekend. I have been on that property since 3 days after my birth all for except for 6 months of my life I spent living in Waco. It's all I have ever known I am raising the fifth generation on this property we have had this property for over a hundred years in the family name raising the fifth generation. My eight year old, nine year old and twelve year old all they know is Pin Oak Creek. Hopefully that is all they will know until they decide to move somewhere else or build. Its family property. My dad said all the history we have with the Indian artifacts all I can is the reservoir does not need to be located here. All I can is I work in Hutto the conservation is not does whenever you are looking at just at the car washes that are built in Williamson County. It is ridiculous to think that there is conservation being done and I don't believe it will be done. But if the property is covered in water it will be lost forever, just like Mr. Cunningham said they don't make no more land. And I definitely won't find anything close to what I have. So that is about all I have to say thank you.

Mike Kornegay – I am Michael Wayne Kornegay and live at ground zero in Milam County Texas. The property I am on has just been in my family for 75 years. Right next to us is property that my uncle who is in the right next room and my cousin has had for 130 years. I think you know that we are a proud an productive group who serve our county well by growing cows, hay and some of the best pasture land you will ever see. It's funny how I have been over this speech a hundred times in my mind but I can't think of a thing to say now. It ain't okay, oh I'm not nervous, I'm mad. I haven't slept in forever, ever since I heard about this travesty but I am here to talk about cows. Our land is home to 2000 heads of the best cattle in the state. Our pasture land grows some of the best hay and it maintains and sustains our cows. If we are forced to sell out since many of us don't have anywhere else to go with our cattle and certainly anywhere else to go with our land it will have an impact emotionally and a great financial impact hardship to us because money won't buy my land. For years down the road it will have an impact on local businesses that Mr. Cunningham spoke about and as everybody has said we can't replace our heritage. I speak for my dad, excuse me, I was looking at Mellissa when she was doing her thing and that woman made me cry and I haven't stopped since. Anyway I thank you for your time and Governor Abbot said the other day he spoke to the tragedy of the recent floods. People losing their homesteads and their land. How is this any less tragic? One was an act of God the other an act of an intrusive and abusive government takeover of private land. I certainly did not say what I wanted to today because I don't want it taped but I do thank you ladies and gentlemen for listening.

Kimberly Hahn – My name is Kimberly Baumann Hahn. I am representing Milam County, the Baumann family and many other families that are possibly going to lose their property. And I also represent the Stop the LROCR Group. I live in Dewitt County and we are going to speak about Indian artifacts. My father was a Texas history teacher early in his career and my parent have a combined total of ……. Sob I am sorry, I am so upset about this and my family. My sister is going to speak. Melissa Baumann – sorry I am speaking on behalf of my sister. My father a was a history teacher early in his career and my parents have a combine total of 91 years in the education profession dedicating their lives to educating thousands of youth in this great state. One thing my parents have instilled in me is a love of our property and Texas history. And an appreciation of the Native Americans who lived here. Most of all their property would be flooded along with their homes. Milam County history started significantly before the settlers of the 1800s. It started with the Indian artifacts that called this area home and lived out the Indian tribes that called this are home and lived out their lives here. Milam County has supported human habitation for at least 10,000 years. One of the early tribes in the region was the Tonkawas. They were a nomadic buffalo hunting people in scattered villages of teepees and arbors. Some of my best childhood memories have been of sifting for arrowheads with my family and dear friend Calvin Whitely on our property. We have been so excited over the years to find innumerable arrowheads which are used to grind seeds and other foods, hand axes, blades, midden which is a burnt rock, scrapers, pottery shards and (?). Our property was obviously heavily inhabited by Native Americans at one time. As those of the property land owners who have found their own share of Indian artifacts and treasures. According to the experts this area was a campground for the Native Americans especially the Tonkawa. There were at least two or three Rancheria sites in Milam County. A Rancheria Grande is an association of several American Indian villages where multiple tribes settled together. The Tonkowas were known to be one of those tribes. One of those sites has been clearly identified but the other two are yet to be stabled. A local expert questioned

whether an area overlooking our creek in an Indian mound. We are in process having that authenticated. So we ask that you take this into consideration about our state and local history and the Native Americans that first inhabited our county as you consider whether or not to go forward with the LROCR please don't destroy our chance to further explore and learn about Native Americans in our area. Thank you.

Sheryl Hall – Good morning ladies and gentlemen thank you for letting me speak to you today. My name is Sheryl Hall and I am here representing the land owners in Twenty Two Hills in Gause which is in Milam County. I want to tell you a little bit about Twenty Two Hills (TTH). TTH is a rural subdivision with deed restrictions consisting of approximately 1700 acres of land. There are 32 parcels of land with 25 owners some of the owners have multiple parcels. There are presently 17 homes and 32 people living in TTH. New construction underway and planned to begin soon include a 2500 sq. ft. home, a 2400 sq. ft. home, a 800 sq. ft. addition to an existing home, and a 6000 sq. ft. barn. Construction on an additional new home is planned with the next one to two years that would bring the total number of homes in TTH to 20. Many of us have spent our life savings to build homes to fulfill livelong dreams of retiring and living the rest of our lives at TTH. We have seen the values of our property increase dramatically over the years we have been here due to the quality of construction and improvements to the properties. We came to TTH for many reasons and I will try to list just a few of them. Some of the reason is the fact that it has deed restrictions and paved road frontage which is not often found in rural areas. We also enjoy the quiet and solitude we experience on a daily basis. Many of us came from Houston, Dallas and other cities where are you know is certainly not the case. The scenic view and beauty of nature is not available anywhere else in our region. We all enjoy watching the abundance of wildlife that we have such as deer, bobcat, fox, roadrunners, rabbits and many many species of birds. We have easy access to Cameron, Rockdale, Hearne and Bryan College Station. The ability to give our heirs secluded property in an area is also very important to us. Based on the maps that we have access to, ten of the owners property will be impacted by rising waters from the lake itself, four will be significantly affected by water covering their land. The other 15 owners could be impacted if their property is selected for displaced wildlife. So my question for you is this. Why do you want to build a reservoir here? Local resident will lose their land, taxes will rise for landowners who remain and our natural beauty will be lost. If the lake is for the benefit of another

county why not pipe the water there and let them build a lake in their area. You are going to have to pipe the water to them anyway. Why do you want to destroy our property when the residents of Milam County will in no way benefit from it? Thank you for your consideration in this matter.

Scooter Radcliffe – Hello my name is Scooter Radcliffe I live at 1414 Lisa here in Waco and I am the Groundwater Manager of the Southern Trinity GCD which manages groundwater resources of McLennan County. Thank you for allowing me to comment on the 2016 Regional Water Plan. South Trinity GCD was formed in 2007 and issued permits for historical and non-historical ground water withdrawals from the Trinity and Brazos River Alluvium Aquifers. The District is actively promoting conservation of Trinity Aquifer Groundwater through improvements through the water efficiency increased use surface water and use of Brazos River alluvium groundwater. The District is working with the City of Waco, Baylor University and other water user in developing policies and programs. The policies and programs will promote the conjunctive use of groundwater and surface water to optimize the water available to McLennan County during surface water shortages. This will extend the viability of the Trinity Aquifer for many decades. The Districts desired future condition and associated model of available groundwater for the Trinity Aquifer is 20,648 acre feet per year. This amount of groundwater is required to permit sufficient groundwater pumping during times of drought while permitting surface water use and use of conservation during time of adequate surface water supplies. We appreciate this opportunity to comment, Thank you.

Cathy Lazarus – Hello I a Mary Catherine Lazarus. I live at in the northern part of Robertson County. I am representing myself as a landowner and the topic of my discussion this morning is that basically in uhh I need to thank all the people from Milam County because they gave me a call and they said Cathy we need some help with El Camino Regal. In finding out with what was happening to them I did a lot of research on Little River OCR and in doing so the other night last week there was segment in your plan called the Main Stem OCR. The Main Stem OCR is a Brazos River Authority program management strategy whatever you guys want to call it but it also seems to be a problem in that you have pin pointed 14 areas along Brazos River from Waco to Hempstead that could potentially be OCRs. You have 14 areas that is going to have people much like the group you have here today here before you telling you that we do not want these OCRs in our backyards. The one in particular is across the street from me and again I have to thank the Milam County folks for bringing this to my attention we appreciate it. I have a few neighbors here this morning and we have not had the opportunity to collect the data that we need to really give a formal presentation. However I want to mention a few things very quickly and I agree with Dr. (?) that there are really some significant discrepancies in you plan. I have read a lot of it what is said in the summary part in not exactly what you are saying the rest of the document. I am sure that you have read all thousand plus pages but that I realllly think you need to a little bit more work a little more editing on your plan. The first think I need to say very quickly is that the notice to the public is Robertson County I have been able to validate. I know you said that you had that validation I can't find it uhhh I know that it was sent to one paper in Franklin but Franklin's paper does not reach County wide. The second thing I would like to uhhh say right up front very quickly again I want the segment or the option of the main stem OCR Section 4.8 whatever it is I don't think that has been totally thought out and totally umm planned it seemed to all of a sudden a second thought for much of the discussions and I have listen to a large part of your audio meetings or the audio of your meetings a lot of the discussion early on was for 13 reservoirs and suddenly

there was a 14th main stem reservoir planned that included another reservoir in Milam County called Milam County Reservoir. Uhhh I think that whole plan needs to be taken off the table and perhaps with more thought and purpose if you want to include it include it next round of planning not this one. I also have a problem with CCEFN which is another like Dr. Barrett Dr. Lyle (?) I am sorry uuhhhhh I just find flaws as why we are taking 1997 criteria and applying todays science is just beyond me. It says in the documentation that we are letting you use this consensus criteria and you make all these judgments based on all these calculations but then you also say we could reallllly be wrong when we select these unique reservoir sites we could really be wrong when we plan these items. If you don't get out and do field work you are not going to have any clue what you think you are going to be able to do and have it come out right. Uhhh I know that kinda of sounds strange but what I am is that you have planned some reservoirs on top of recharge zones. I think that is a very difficult thing to do it's like trying the fill up the bathtub with the stopper undone. You know it just goin to go on down you can't seal it you ruin the aquifers and if you hhhh I am not a hydrologist I don't know I think it's a very good question to ask umm very quickly, I am sorry how much time do I have on I'm done oh. I have more hahaha but anyway I will leave with that.

Marlan Scully – My name is Marlan Scully. I represent agriculture environment and education and endangered species. That's a lot. Right. My sons and I came out here a few years ago about five miles along the Brazos is Salter Farms. A farm developed by a civil war captain Salter. Our goal was agriculture. We have lost enough money in agriculture to be considered serious farmers. HAHAHAHA. My day job is at Texas A & M and Baylor. I am a scientist working with people there to the point of education and preservation of the best state in the union. I wasn't born in the Texas but my grandfather was and my grandson was I am a Texas on the average. HAHHAHAHAH. And I am particularly pleased to say that the kinds of biological and physical resources that we have here is unique. We have on our property, bald eagles, we have a migration I brought this I am going to leave with our chairman Mr. Wilson who represents agriculture admirably and I don't worry about that but I do worry about the fact that we have here an unusual opportunity The State of Texas and especially the beautiful Brazos River especially places like the Little River to preserve our heritage and our stewardship of this land. Thank you for your attention.

Janice Bezanson – Thank you I am Janice Bezanson with Texas Conservation Alliance I live in Salado not in Salado just out of Salado in the Hidden Springs Development there and I am here to talk about the Cedar Ridge Reservoir Project which is in the Brazos G water plan as a recommended strategy. The City of Abilene is proposing to build Cedar Ridge Reservoir for which there is not adequate justification. Abilene currently uses about 21,000 acre feet a year they are projected to go up to slightly over 30,000 in the year 2070 including the smaller cities they sell water to. Their current surface water, current right now existing surface water supply is 32,506 acre feet more than their projected demand for in the year 2070. In addition to that they are doing reuse that the newspaper has quoted your own Tommy Obrien as being about 7000 acre feet. So we are looking at something 10,000 acre feet more of current supply than projected plan for 3070 2070. So clearly there is not a municipal demand for Cedar Ridge Reservoir. They will have to do a new treatment plant to to to develop all that but that's in the plan. The the the demand that the gap in the demand and supply for that's listed under Abilene in the plan refers to two steam electric plants uh uh uh water for two steam electric facilities are for water for steam electric in Nolan County and for the City of Clyde. Together 18,000 acre feet a year. It would be both unprecedented and in appropriate for the people of the City of Abilene to be asked to spend their tax dollars and their rate money to build a reservoir for steam electric. Besides which there is not really any steam electric planned this area. If you look at the Public Utilities Website they list all the pro uhh ummm Steam Electric plants all the power generating plants that have been announced and there aren't any in any of the counties being referenced here. Nolan Callahan Tyler or Jones. This wind energy and that's what you would do if you needed more electricity in the area there are wind industry uh uh wind power plants proposed. Steam electric generating is declining all over the country. There have been more than 150 new coal fired plants that the people that the applicants have withdrawn their permits canceled on their proposals to do it. Existing plants are being proposed steam electric has gone from being about half our energy

source to about like a third and is continuing to decline. So which water from Cedar Ridge would be very expensive it would be in the neighborhood of $1000 an acre foot and no steam electric plan has said that they would pay that kind of money for it. So to use steam electric to justify building this reservoir is highly speculative extremely premature there is no demand to do that with. There is also some water that is listed under Abilene for what is call West Texas Partnership. This is an agreement between Abilene, Midland and San Angelo to explore future water needs and potential sources of water. To have but but but all it says about it that once they have done their studies it will show up in future water plans. To put 10,000 acre feet of water in this plan for a partnership that has not done their studies yet to learn the demand and supply is an inappropriate process for the planning process. If additional water was ever needed in Abilene or this area Cedar Ridge would not be the most economical way to do it. There are other ways to go about it, primarily we my organization Texas Conservation Alliance actually commissioned an hydrologist to look at the feasibility and costs to bringing water from the Clear Fork which is the the the Cedar Ridge would be on the Clear Fork of the Brazos to bring water from the Clear Fork and store it Hubbard Creek Reservoir and keep its levels higher. That would cost about a third of what it costs for water from Cedar Ridge. There are other I won't go into any detail but there are other ways to develop water if it is ever needed but at this time Abilene doesn't need additional water and if this reservoir is built or any other reservoir is built by or if the people of Abilene pay for any other uh uh what new water source they are going to be paying for water that is for someone else. I strongly urge you to take Cedar Ridge out of this planning round of the plan and look at this more carefully and see that there are other alternatives and that this reservoir isn't needed at this time.

Gary Kornegay – My name is Gary Kornegay. I am here to represent the fine people of my community that is opposing this reservoir. According to what all everyone has said here this morning there is really not a lot I can add to it with the exception of as arrogant as this sounds in the company that I am in I pay taxes on the most beautiful place in Milam County. I don't have a PowerPoint I did submit about 50 pictures from our front yard north south east and west you can see 360 deg. Its breathtaking it's beautiful God actually reached down and touched that property with his hand and my father deeded me that land. Unlike Mr. Fisher from the sweat of his brow as he put it worked for his I have worked for mine but I had parents that gave me what they wanted me to have as they did all of their siblings. My wife and I have two children we were blessed with two beautiful babies. They are fourth generation Kornegays. As many people have said on this day our land is not replaceable it is not for sale. Like my brother it is ground zero. We are right in the middle of it. On a different note I would like to thank Mr. Parker, is it and Gary Westbrook you two responded to my emails and I appreciate that. I don't have anything else to say with the exception of this cannot be allowed. Thank you.

Gary Westbrook – Quickly my intention is to comment on the location of the LROCR and also on the need for flexibility in the water plan. Here is a map we did do some mapping internally at Post Oaks Savanah we have the ability to do GIS work. The blue that you notice is Carrizo outcrop there are some questions about that today that the answer is 42% of the footprint and this is the footprint that was provided recently by HDR due to the questions that were raised by the folks of Milam county wanting to see to have the best guess of this would be. By the way in defense of HDR they don't get paid and we don't have the budget to get an in-depth analyses that some fold assume that we might we wish we could but we don't so this is some stuff we did in house with approval of my board of directors. So the Carrizo is 837 acres you see it in the blue there that's in the footprint of the reservoir itself. And like I claim a lot I am not the smartest guy in the world but if you are going to build a stock pond to hold water you can have sand in the bottom right, so this is some in-depth work that would be done if someone decided to do a little research to decide if this project would be viable or not. So anyway, so 42% that is a very large percentage of the foot print that would be sand and that sand is very course is very trans missive has some good qualities for moving water soaking up water storing water as you can see to put a big bowl with a sand bottom uhhh not the best maybe not the best idea that we could come up with but based on the level of the amount of work we are allowed to do that is about the best we can do until someone wants to actually come in and do some work. So surface water in the Carrizo outcrop is a source of recharge to the Carrizo aquifer we know that. We can model that one of the things that is coming is that we will do some model. There is a lot of leased up in our county and in our district for production of water to supply other areas of the state. This area that this reservoir is located in is no exception to that. And so I can only imagine how the water in the reservoir will be effected with some large production wells in the vicinity not far south from there a little down deep maybe 400 450 feet deep pumping about 1000 a minute and the amount of water that would be lost to that as you can imagine what a conduit that might be for a recharge project. As I was talking to

David Dunn with HDR we we we uh realized that evaluation hadn't been done yet that is why we did it and we both agreed that instead of being a reservoir that is built to hold water it might actually more of a recharge project so it could be the LROCrecharge project so not a good idea maybe. Anyway we haven't finished all the modeling we have one of the best modelers in Dr. Steve Young unfortunately he is out of the country for another couple of weeks. When he does return we will finalize our comments to the region so everyone will know what we find out from the modeling that we choose to do to look at the impacts of productions south of there. So umm I am going to plead again I have done this over the last two years since being member of the Region G I apologize to my constituents that set on this group with me you are tired of hearing me say this but until we get the folks at TWDB and also the legislature to give us some flexibility we are kinda hamstrung on what we do. Flexibility is needed model development districts I see groundwater districts managers around the table with me and I heard another a while ago we use the MAG as a tool to evaluate with its not a cap but when you are looking at planning with the group we are hamstrung because it use is forced upon us a cap. Because it is a cap it allows some games to the played on paper with water supplies. If we had some flexibility to consider those supplies in a different way we would show some of the shortages we currently show in this IPP. So that's my comment there so surface water should be dealt with in a similar situation. David and I recently discussed that again I wanted to be sure I was correct in my assumptions we do use drought of record for supplies and we use dry year demands which is maximum demands during years of demands and so it really puts us in a corner when we are trying to figure out what water is available and what is not. We show shortages when there are abundances in certain places and things like that. So that is really the extent of my comments there other than to say that I appreciate my neighbors for coming out appreciate the comments, appreciate the organization and the respect shown by all if the Lord is willing and I am still breathing at the proper time then I will move to for this group to remove the LROCR from the plan.

Thomas Barrett Lynne – I am a soil scientist PHD Texas AM university also a wildlife biologist from A & M. I represent myself as a private land owner. My address is 18075 FM 974 Bryan Texas. I am a Brazos County. I was asked to come here by some friends in Robertson and Milam Counties because we in Brazos County went through this in 2010. I have given the board a copy of the bill proposed by a state representative in 2010 Fred Brown in regards to exactly what the citizens are enduring at the moment. So this is not about the Brazos River or the Little River but the same soil system applies so the same science applies there vs. the Navasota River. We are in southern clay pan soil and it runs throughout this region. Okay if we lose our water we are going to lose our heritage our children will no longer be our farmers producers. Alright the model we are using to make the estimates on this um groundwater are at fault, deficient they have flaws. They are all based upon the Darcey Law this is an old old soil science equation established in 1856 by Charles Darcey. And in these models one thing we need to know they are simply estimates and our TWDB does not warranty there is no warranty here it is no warranty, no assurances, no promises, and no accountability. Okay? That's important for all yall to understand what they are doing to us we are the ones that pay nobody else is accountable. Okay Darcey made 4 assumptions in developing his equation and I don't want to get into the mathematics of this but I wanted to show some pictures. Pucelli developed a model and proved that water flows in a laminar fashion. Kind of like a telescope the old telescoping eye piece that people use water flows with the center mass moving faster than the sides because of the friction. Another assumption he made was in the flow of water through the soil the tortuosity of the soil is assumed in his basic equation with the wedding front and as you can see water moves through a very tortuous network in the soil. But yet his model equation is for what they call straight line flow orthogonal flow so that's a huge fallacy a huge assumption in these models and that is one reason why these models are fundamentally flawed. Another important things is the Justice Kennedy in 2006 and this is earth shattering ground breaking news Justice Kenny(?) on the Supreme Court

ruled that the significant nexus in the old day we would go out and see a stream flowing in to an estuary called that a nexus a connection between surface water and a large body of water. He said that is not the case that it goes deeper than that that if the very meniscal discreet movement of water in our soils below the surface that also account for that nexus connection it's not just a water body. Very important that changes the game. This is picture of some aquifers and a recharge zone. This is the recharge area here and aquifer here the water goes in and fills these aquifers then we pump the water out of the aquifers the more we pump water out of the aquifers the more hungry they become and they take more of the rainwater into the recharge zone to fill those aquifers. That means less water over shed to fill the surface the water table above the aquifer and our particular soil system of the Post Oak Savannah clay pan we have these perched clay pan lenses that form perched water tables. These are astral I mean just hugely important because we have all experienced our torrential rainfall for the season. We have had a significant amount of rainfall we may not get rainfall again until September alright but what keeps those soils systems moist so we can grow crops that is these clay pan water tables, perched water tables. So it is very important to understand this concept. And also the water models do not take in again this directional flow multivector flow and here are some problems with this orthogonal concept developed by Darcey in 185. We have bio pores. Here we have rabbits and ants and fire ants and pocket gophers that dig tunnels huge massive networks of tunnels that form a shunt for the water going into the soil. The model computer does not compute it does not compute. When it comes to something like that there is no computing they don't it does understand water movement like this. Here is a study by Cornell University this is call the finger funnel infiltration. We have a funnel system. Okay times up.

Comments on the Initially Prepared 2016 Brazos G Regional Water Plan

Brazos G Regional Water Planning Group

Public Hearing on Initially Prepared 2016 Plan

June 23, 2015

Gary Westbrook, General Manager

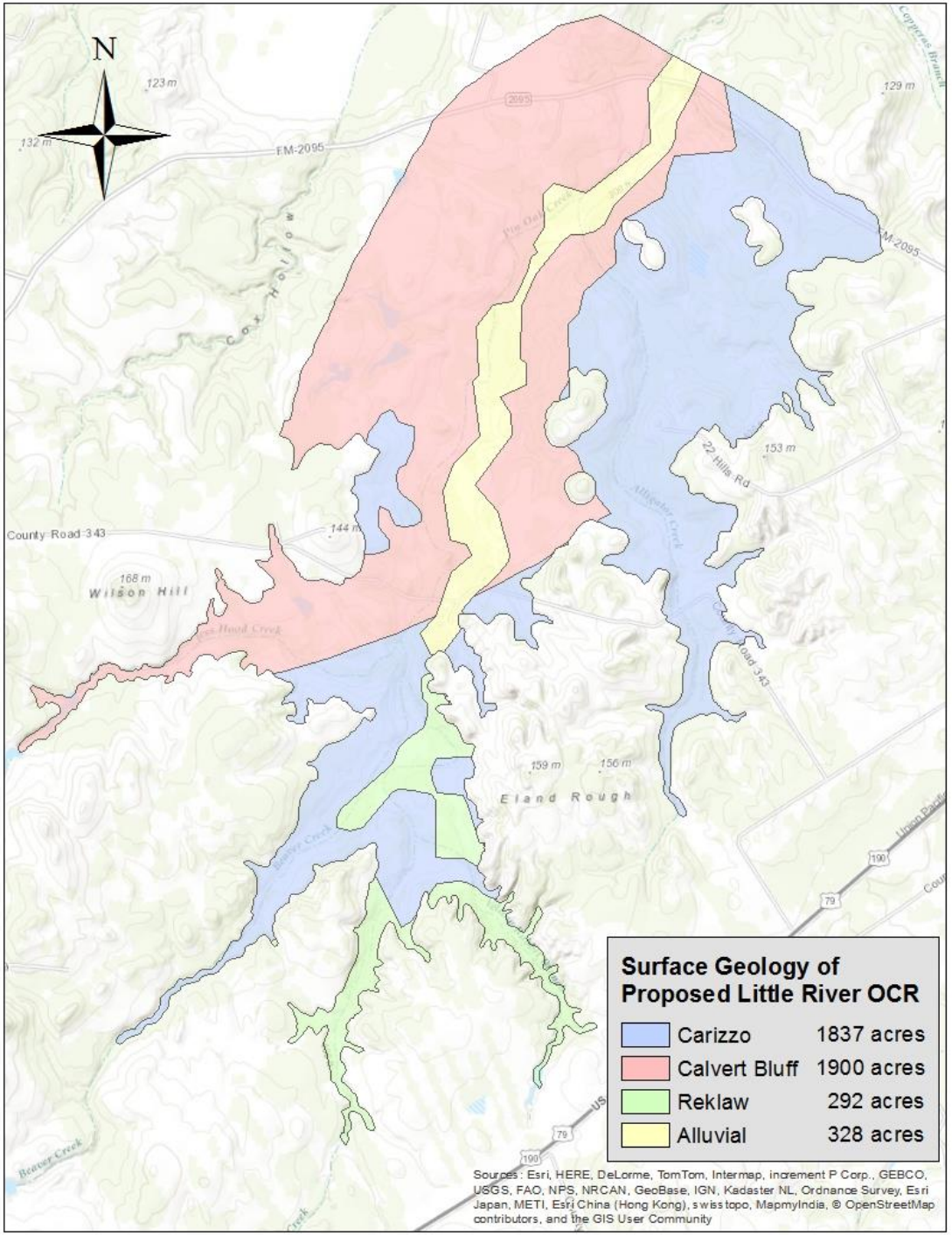
Post Oak Savannah GCD

Comments

- Geologic concerns over location of Little River Off Channel Reservoir
- Need for flexibility in planning of supplies
  - Modeled Available Groundwater
  - Surface Water Supplies

Geologic Concerns over location of Little River Off Channel Reservoir

Footprint map of LROCR recently provided by HDR overlaid onto map of geology of Milam County



LROCR Geologic Concerns

- Carrizo aquifer outcrop is approximately 42% of the footprint of LROCR based on map recently provided by HDR
- Surface water in Carrizo outcrop is source of recharge for Carrizo aquifer
- High volume production wells placed south of the proposed location in the Carrizo aquifer could increase recharge and have large impacts to water availability in this proposed reservoir
- Modelling results of possible impacts forthcoming

Need for flexibility in planning of supplies

Flexibility in considering supplies would free up water and eliminate many unnecessary projects

- Modeled Available Groundwater
  - POSGCD –Average annual production is approximately 40% of permitted amount
  - MAG is not a cap for permitting at GCD levels
  - MAG should not be a cap for Regional Planning
- Surface Water
  - Flexibility could lead to available water for more efficient projects (ASR, etc.)

Cedar Hill Ranch, Gause, TX

by Joyce Conner

Then

Now

5/19/2011 9:39

5/19/2011 9:50

5/20/2011 9:18

8/13/2011 10:54

8/29/2011 8:40

9/20/2011 10:35

10/7/2011 9:42

11/19/2011 10:25am

RIDGID
11/22/2011 2:39pm

LEGO
STAR WARS

7/19/2012 8:35

9/15/2012 12:25

BOMBARDIER
MAX
Bushnell
09-17-2012 10:09:21

11/3/2012 9:23

TCWC
11/3/2012 10:21

11/16/2012 11:17

12/5/2012 14:50

FLEX-II
DONAHUE
1/7/2013 13:01

1/11/2013 15:51

1/17/2013 16:49

11/1/2012 11:33

Bobcat
4/23/2013 9:48

Bushnell
12-20-2013 15:35:46

Bushnell
12-31-2013 11:21:58

FEB/ 9/2014

27
03.24.2015 17:02

03.25.2015 12:24

4/8/2015 14:17

MAY/ 6/2014

04.18.2015 19:24

04.26.2015 13:34

MAR/10/2014

3/26/2012 9:37

APR/ 7/2014

APR/ 7/2014

4/9/2012 9:43

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POWERMATIC
MAY/28/2014

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09-20-2014 11:06:09

12.07.2014 15:30

12.07.2014 15:33

05.07.2015 08:55

5/29/2011 11:11

7/19/2011 15:01

7/19/2011 15:05

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PLOTWATCHER V1.2 2012/01/10 12:22:16

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4/2/2012 8:33

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4/6/2012 9:28

4/8/2012 11:21

Bushnell
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4/21/2012 15:14

4/22/2012 8:29

4/22/2012 18:49

4/25/2012 10:30

4/25/2012 10:31

4/25/2012 10:43

4/25/2012 10:53

4/25/2012 11:12

4/25/2012 11:20

4/29/2012 7:29

Bushnell
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4/30/2012 8:32

4/30/2012 8:32

4/30/2012 13:45

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Bushnell
05-30-2012 08:53:37

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7/13/2012 19:33

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SEP/14/2013

MAR/27/2014

3/7/2013 11:08

Pat. #5,251,382 & Pat.Pend.
OCT/30/2013

NOV 3/2013

NOV/ 3/2013

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MAY/ 7/2014

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MAY/12/2014

MAY/18/2014

6/13/2014 20:40

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(c) 2014 Milana Cypert

carolfoxhenrichs

04.01.2015 09:51

Bushnell
06-01-2015 09:29:53

Little River Off-Channel Reservoir

Analysis and Recommendations

Mike Conner
mike@conner.net

Plan Errors/Anomalies

- Williamson County – Other: Table 5.36-19

Currently Reads:

Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	20,000	20,000	20,000	20,000	20,000	20,000

Should Read:

Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	(27)	2,262	5,402	5,242	9,890	14,243

- Tables for LR-OCR Users do not show conservation savings, it should be broken out

Table 5.36-9. Recommended Plan Costs by Decade for City of Hutto

Plan Element	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*(2,256)*	*(3,678)*	*(5,481)*	*(7,426)*	*(10,193)*	*(12,477)*
Conservation						
Supply From Plan Element (acft/yr)	—	—	—	—	—	—
Annual Cost ($/yr)	—	—	—	—	—	—
Projected Surplus/(Shortage) after Conservation	*(2,256)*	*(3,678)*	*(5,481)*	*(7,426)*	*(10,193)*	*(12,477)*

Plan Errors/Anomalies (Cont.)

- Table 5.38-3 has wrong values for supply from LR-OCR

Currently Reads:

Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	56,150	56,150	56,150	56,150	56,150	56,150

Should Read:

Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	15,588	15,588	15,588	15,588	15,588	15,588

This is all that is left after meeting LR-OCR Users commitments.

- Section 5.38.2 Brazos River Authority (Little River System)
  - In the “Water Supply Plan” list, item “a. Little River OCR”, it says:
    - “Date to be Implemented: Before 2020”
  - This date is not feasible and should be adjusted to 2060, or 2070 per our recommendation given later.

Cost/Benefit Analysis of LR-OCR (1)

- Summary of project costs:

Reservoir Related Costs

Total Cost of Construction	$ 248,761,000
Fixed Annual Costs	$ 20,932,000
Annual Costs That Directly Scale With Water Usage	$ 2,256,000

Delivery Related Costs

Total Cost of Construction	$ 238,850,000
Fixed Annual Costs	$ 24,416,500
Annual Costs That Directly Scale With Water Usage	$ 11,322,861

- Assumptions:
  - 500,000 ac-ft/year under system rate
    - In 2014 BRA had 294,506 ac-ft under its system rate contract, out of 669,225 ac-ft under all contracts. By 2019 they hope to have 388,993 ac-ft
  - BRA 2015 System Rate $69.50 per ac-ft
  - Yield from LR-OCR available for BRA: 15,588 ac-ft/year

Cost/Benefit Analysis of LR-OCR (2)

- Funding Model:
  - BRA pays for reservoir and sells water to LR-OCR Users at system rate
    - LR-OCR Users are: Milam County – Steam Electric, Chisholm Trail SUD (Williamson County), Round Rock (Williamson County), City of Hutto (Williamson County), Williamson County – Other
  - LR-OCR Users pay for delivery related costs (pipeline to Williamson County, water treatment plant, etc.)
- Impact on BRA System Rate (from 2015 system rate of $69.50)
  - Dollar increase to BRA 2015 System Rate: about $45
  - % increase to BRA System Rate from 2015 rate: about 65%
- Water Usage

Decade	2020	2030	2040	2050	2060	2070
Water Used for BRA contracts	0	15,588	15,588	15,588	15,588	15,588
Water Used for LR-OCR Users	0	2,640	7,523	13,583	23,811	40,562
Total Water Used	0	18,228	23,111	29,171	39,399	56,150

Cost/Benefit Analysis of LR-OCR (3)

- Cost to LR-OCR Users

Decade	2020	2030	2040	2050	2060	2070
Annual Cost to LR-OCR Users		$ 25,153,455	$ 26,516,541	$ 28,208,187	$ 31,063,328	$ 35,739,361
Cost per acre foot to LR-OCR Users		$ 9,528	$ 3,525	$ 2,077	$ 1,305	$ 881
Cost per 1000 gallons to LR-OCR Users		$ 29.24	$ 10.82	$ 6.37	$ 4.00	$ 2.70

- Hutto Cost Example: (Hutto share of costs is about 21%)

Decade	2020	2030	2040	2050	2060	2070
Projected water needs	3,767	5,189	6,992	8,937	11,144	13,428
Projected water shortages		378	2,121	4,001	6,215	8,499
Increase in water cost to Hutto users per 1000 gallons		$ 4.85	$ 3.79	$ 3.16	$ 2.79	$ 2.66
% Increase (based on $6.98 rate)		69%	54%	45%	40%	38%

Cost/Benefit Analysis of LR-OCR (4)

- Comparison to Allens Creek OCR
  - Cost of Allens Creek Reservoir/Yield (ac-ft/year): $1,950
  - Cost of LR-OCR/Yield (ac-ft/year): $4,430
  - Impact on current customers of BRA

	% Increase in available water	% Increase in System Rate
LR-OCR	**2%**	**62%**
Allens Creek Reservoir	**4%**	**20%**

Twice the water for 1/3 of the rate impact

Cost/Benefit Analysis of LR-OCR Summary

- LR-OCR is a very expensive, inefficient reservoir
- There must be better alternatives

LR-OCR is High Risk

- About 1/3 of the reservoir is over the Carrizo-Wilcox aquifer
  - May leak into the aquifer, which is being heavily pumped
  - Testing can show that the reservoir will fail
  - Can testing prove the reservoir will not fail after 10 or 20 years?
- Permitting: Army core of engineers requires a reservoir to be the least damaging of all practicable alternatives.
- Land owner resistance
  - “Sec. 21.0121. CONDEMNATION TO ACQUIRE WATER RIGHTS” of Texas Property Law gives land owners very strong rights to resist condemnation.
- Others will talk about environmental risks, and historical/cultural risks

Recommendations

- Completion dates are unjustified and introduce too much risk:
  - Move completion dates to 2060 or 2070
- The LR-OCR is too high cost and too high risk, remove it from the plan an substitute lower risk alternatives:
  - Over 95% of the growth in Williamson County water needs in 2070 comes from metropolitan use.
  - More aggressive conservation and waste water reuse can meet their needs.

Risks

- If LR-OCR cannot be implemented when it is attempted then alternatives must be found. Start with them!
- If LR-OCR is implemented an then it water is not needed then the LR-OCR Users are stuck with enormous rate increases with no benefit.
- If conservation and reuse target cannot be meet in the 20-30 years before Williamson County starts to have real shortages then alternatives can be developed at that time

- Conservation and reuse is a better, lower cost, lower risk alternative to the LR-OCR.

The Alphabet Soup of

WATER

... your future

...your life

BEG BRA GAM MAG BVGCD BWS CWA DFC ET GCD TDLR

TAMU TCEQ TWD B GCUWCD mg/L ug/L

GMA POSGCD LPGCD MOB PS QCSP GAMs SYRCGCD RRC RWP A SAWS SSLGC TDS FY RWPG

STOP
the water grab
by San Antonio,
Blue Water,
Vista Ridge,
Abengoa,
and SAWS

by
T. Barret Lyne, PhD.
Graphic Artist: Anne Boykin
Editors and Contributors: James Hannah and Larry Hoffmann

Hometown Love:
WHAT WILL BE
...YOUR FUTURE
...YOUR LIFE?

CWA

TWDB

RWPA

GMA

GCD

UWCD

GAMs

MAG

DFC

SAWS

POSGCD

BWS

ABENGOA

VISTA RIDGE

Darcy's Law in Groundwater Modeling

Presented to

Groundwater Management Area 12
Joint Planning Meeting
June 25, 2015 – 10:00 a.m.
Milano Civic Center
120 West Ave. E
Milano, Texas

By

T. Barret Lyne, PhD
18075 FM 974
Bryan, Texas 77808
barretlyne@aol.com

June 9, 2015

We just do not know the aquifers from Groundwater Modeling !

WAG

WAG

Wild Ass Guess (WAG)

Modeled Availability:

Estimates of groundwater availability from the Carrizo-Wilcox Aquifer range from small amounts, by some local interests, to inexhaustible great amounts, by water marketers.

Currently, the groundwater availability, has not been determined for sustainability in our area. The Firm Yield has not been determined.

Representatives for GMA-12 have reached a general consensus with a simulation of specified pumpage. This simulation is called GMA-12 Run-3B. It is considered to be reasonable estimates for potential Modeled Available Groundwater for the Carrizo- Wilcox Aquifer.

These estimates are not official values. These estimates are not even warrantied by TWDB. They are ONLY considered to be more suitable for planning purposes than values estimated in the 2006 Regional Water Planning Group G. These guesses carry NO warranties, NO assurances, NO promises, and NO accountability!

SOURCE: 2011 Brazos G Regional Water Plan, HDR-00044-100499-10, September 2010. Page B-10.

es

Modern Groundwater Models continue to be based upon four fundamental assumptions made by Henry Darcy in Dijon, France, in 1856

Darcy's Assumptions

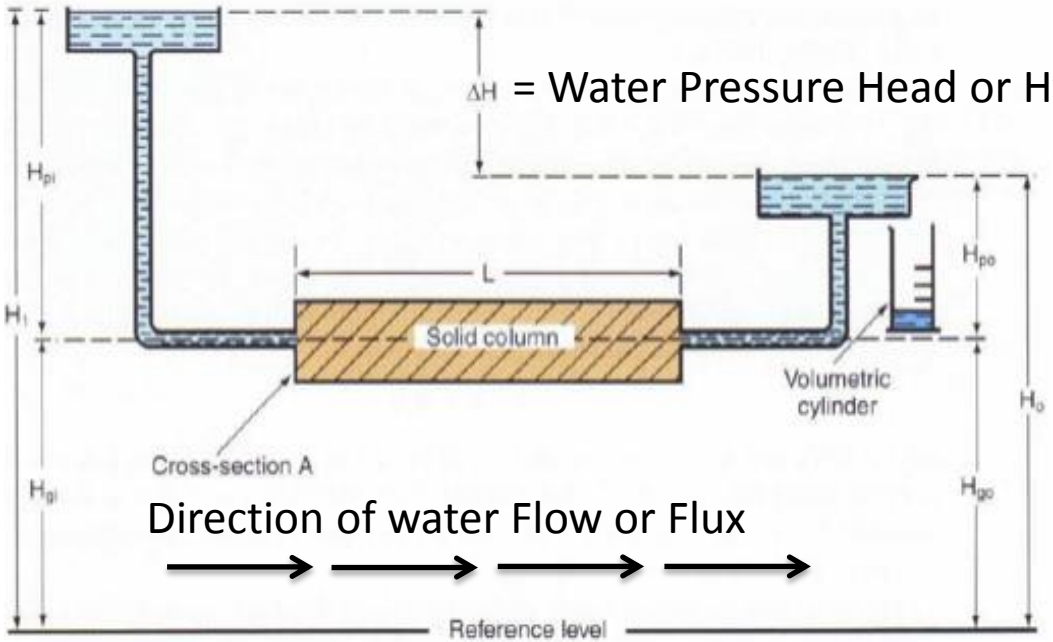
Assumption 1: Volume = Q = V/t : thru Poiseuille's Law of laminar tube flow.

Assumption 2: Tortuosity = L_{mp}/D_{wf}: Pore space distance versus wetting front distance.

Assumption 3: Flux = Q = V/A_t : Cross-sectional area of the Poiseuille Tube.

Assumption 4: Hydraulic Gradient = $\frac{\Delta H}{L}$: Change in head pressure to wetting front distance.

Darcy's Model in Dijon, France, 1856



Flow in a horizontal saturated column.
From Soil Science Department, Oklahoma State University.

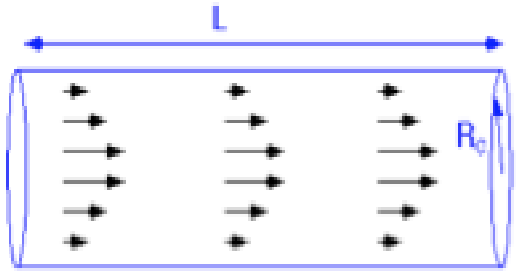
$$q = K \frac{\Delta H}{L}$$

Henry Darcy's Law , "The flux (Q) is proportional to the change in hydraulic gradient."

Darcy assumed the volume of a laminar orthagonal flow of water through a tube could be measured over time from Poiseulle's Equation.

- Poiseuille's Law, ~1840:

$$Q = \frac{1}{2}\pi r^4 \frac{\Delta p}{8\eta L}$$

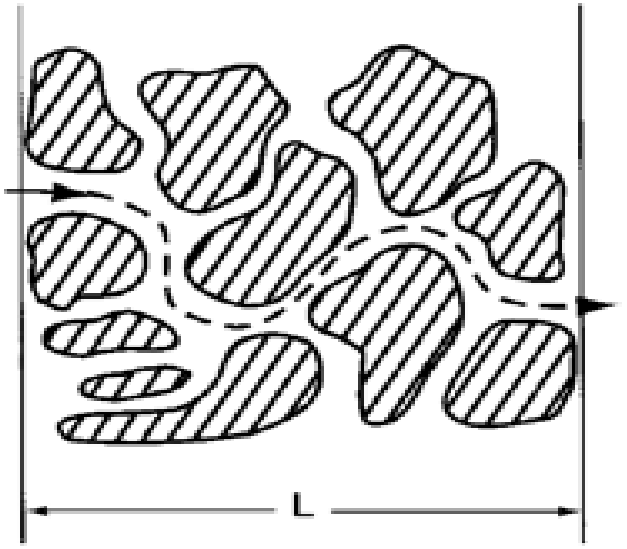


Defined laminar flow of a volume of water through a tube, of length L and radius r, under pressure p, with viscosity n, over time t.

Darcy's assumption #1: Volume = Q = V/t

Darcy assumed Tortuosity was relative to the length of water molecule capillary pore space path traveled versus the net wetting front distance traveled at very large saturated flow volumes.

Tortuosity: water molecules travel further through pores than the wetting front.

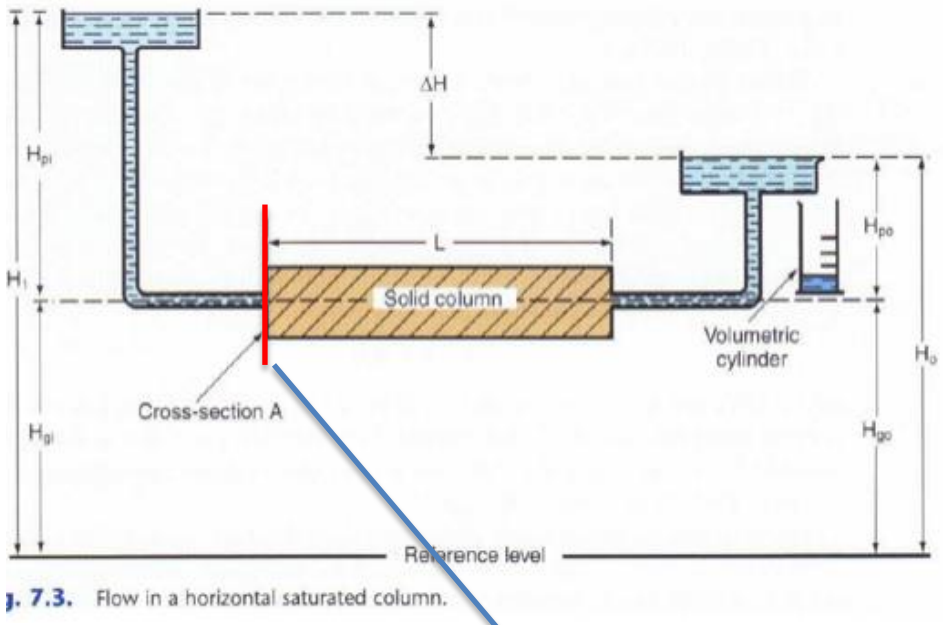


Darcy's assumption #2: Tortuosity = Length of water molecule path/Distance of wetting front. This creates a Macroscopic flow-velocity vector that represents L_{mp}/D_{wf} if the volume is very large relative to the scale of matrix heterogeneity.

Darcy assumed the volume of water through a Poiseuille's Laminar Orthogonal flow tube could be measured flowing across a cross-sectional area of the tube over time.

Water flux is the volume of water flowing through a unit cross-sectional area per unit time

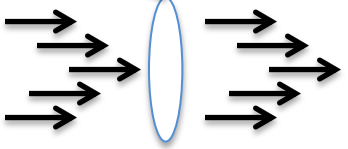
Flux = Q = V/A_t.



g. 7.3. Flow in a horizontal saturated column.

Darcy's assumption #3:

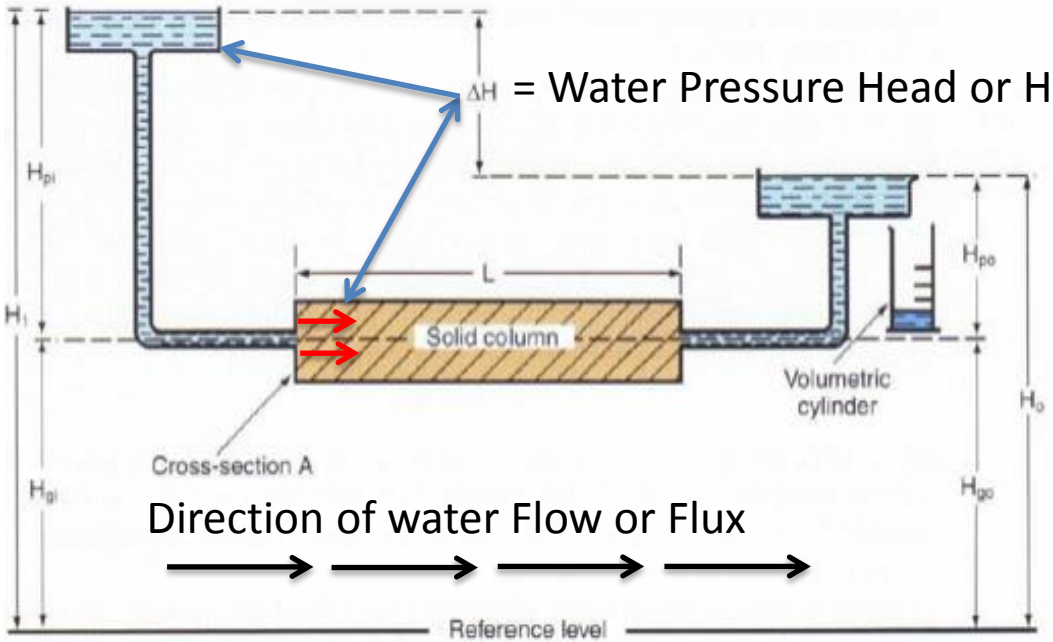
Flux = Volume = Q =



= V/A_t.

Cross-sectional area over time

Darcy assumed the drop in water pressure head potential or Hydraulic Gradient is related to the unit distance L, in the direction of flow of the wetting front in the solid column.



Flow in a horizontal saturated column.
From Soil Science Department, Oklahoma State University.

Darcy's assumption #4: Hydraulic Gradient = $\frac{\Delta H}{L}$

The Hydraulic Gradient is a driving force for and related to water flow.

Darcy's four assumptions in the derivation of Darcy's Law for representing water flux is relative to a change in hydraulic gradient through a specific medium for a distance.

Assumption 1: Volume = Q = V/t : thru Poiseuille's Law of laminar tube flow cross-section.
Assumption 2: Tortuosity = L_{mp}/D_{wf} : Pore space length versus wetting front distance.
Assumption 3: Flux = Q = V/A_t : Cross-sectional area of the Poiseuille Tube
Assumption 4: Hydraulic Gradient = $\frac{\Delta H}{L}$

Darcy's Law

Flux ~ Hydraulic Gradient, is a relative proportionality relationship

$V/A_t \sim \frac{\Delta H}{L}$

$Q \sim \frac{\Delta H}{L}$

Henry Darcy's Law, "The flux (Q) is proportional to the change in hydraulic gradient." For differences between the hydraulic conductivity between soils, a unique hydraulic conductivity constant, K, for each soil is used. Darcy's Law, specific for soil types is:

$$Q = K \frac{\Delta H}{L}$$

This basic expression of water flow thru soils developed in 1856, has been built upon through differential calculus and expanded for currently used "modern" water models.

Surface Water to Groundwater Connections: The "Significant Nexus"

Surface Water to Groundwater Connections: The "Significant Nexus"

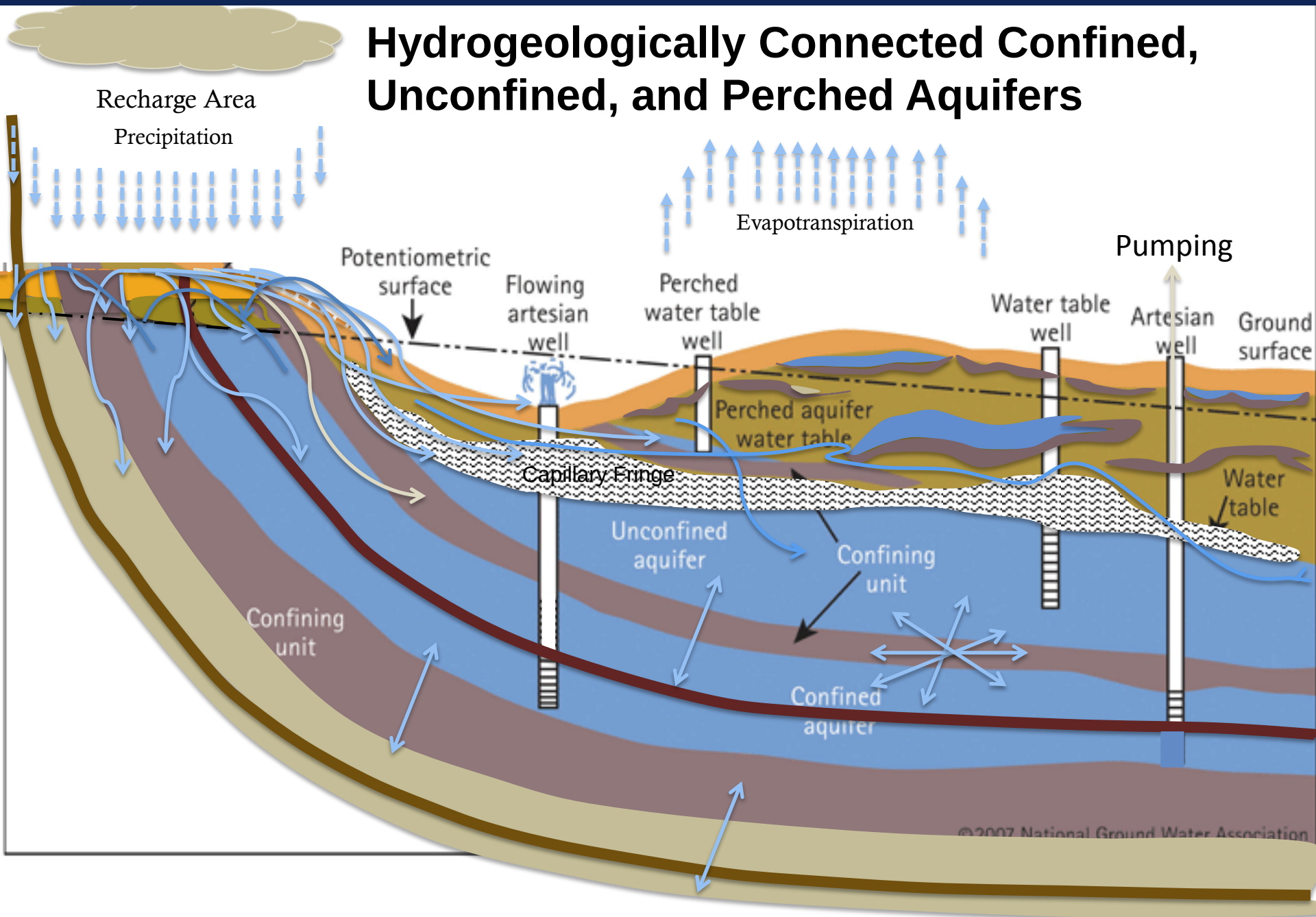
by Justice Kennedy, U.S. Supreme Court, 2006

Justice Kennedy redefined Surface Water to Groundwater connections, in *Rapanos vs. U.S.*, 126 S.Ct. 2208 (S.Ct. 2006), to be: "The cumulative effect of hydrological and geological connections upon the chemical, physical, and biological integrity of navigable waters, *the significant nexus.*"

Kusler, J., P. Parenteau, E. A, Thomas. Significant Nexus and Clean Water Act Jurisdiction. Discussion Paper, Association of State Wetland Managers, Inc. March, 5, 2007.

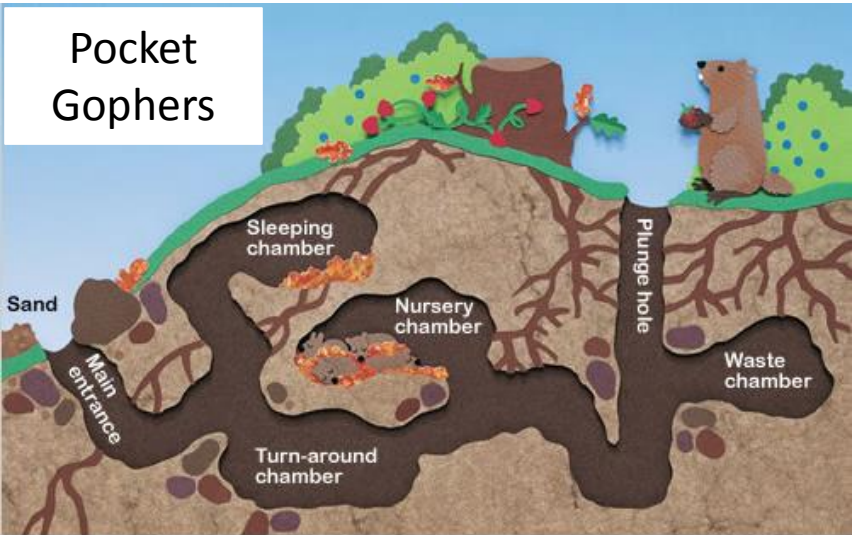
Surface Water to Groundwater Connections

Hydrogeologically Connected Confined, Unconfined, and Perched Aquifers



Rabbits

Red Ants



Pocket Gophers

Fire Ants

Biopores or Macropores Causing Fast-Track Surface Water to Groundwater Connections in Soil

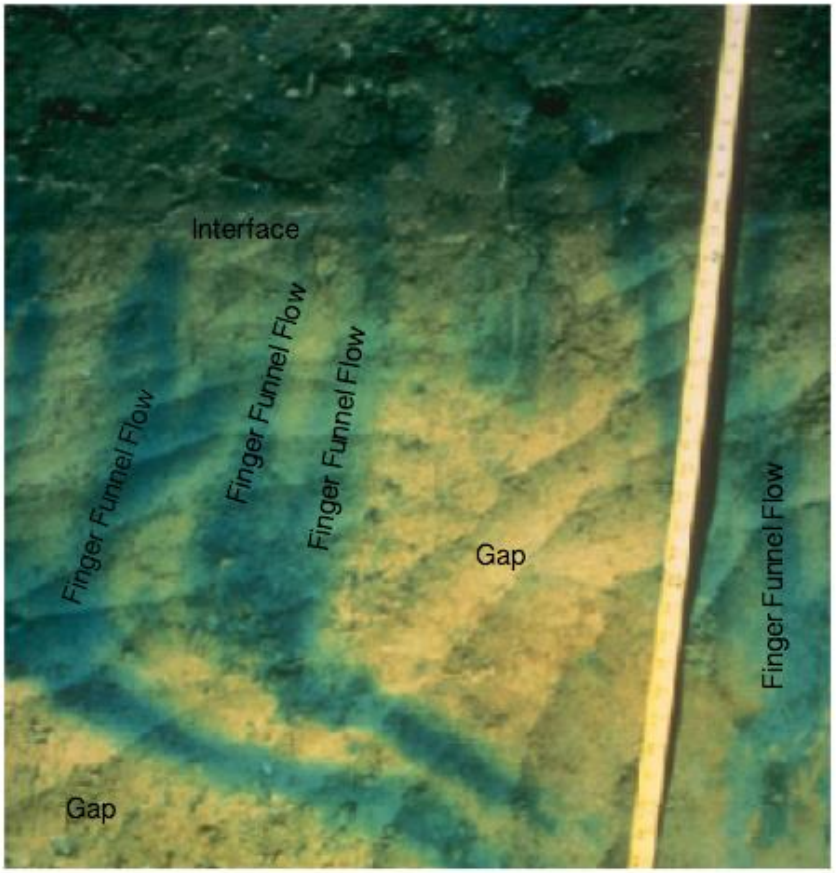
Fossil of
Rodent Burrow

Bigheaded Ants

Effect of Finger Funnel Flow on Estimated Recharge Rates

Surface water does not percolate through soils and groundwater uniformly into aquifers, springs, streams, and water tables. It follows natural and man made preferential flow paths. Some of the flow paths are called finger funnel flow. This non-uniform flow may affect sampling collection and data.

These finger funnel flow paths may create gaps in the vadose zone that may be hit by monitoring wells when sampling for tracers to estimate recharge rates and water age. They may also form significant cumulative connections between surface water and groundwater structures.



Legend:
Gap = Infiltration Gaps
Interface = Material Interface

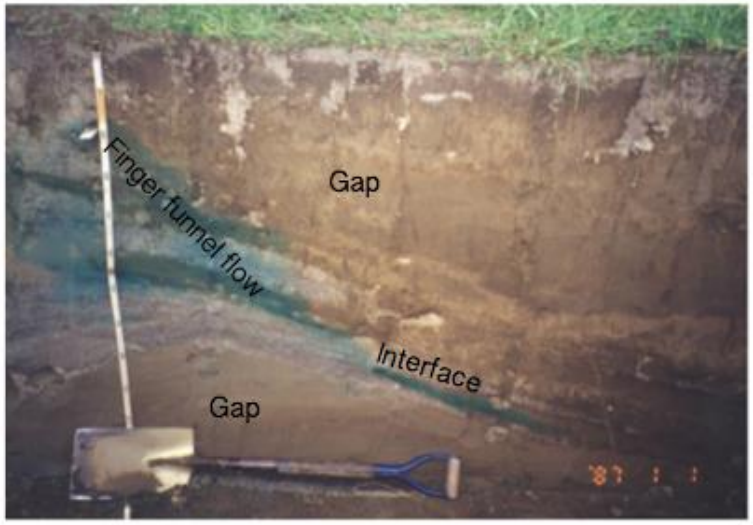
Figure 2. Finger funnel flow (Source: Soil and Water Lab, Cornell University)

Redirected Finger Funnel Flow infiltration and redistribution with unstable flow at layered soil profiles

Surface water does not percolate through soils and groundwater uniformly into aquifers, springs, streams, and water tables. It flows through natural and man made preferential flow paths called finger funnel flow micropores and macropores. Additionally, water may be channeled laterally by obstructions in the soil profile like coarse textured layers or lenses. Vertical flow is altered by interfaces between soil materials of differing particle size.

Water will move in response to the net forces acting upon it from all directions, and this is not always in a uniform direction or manner. Water models can not comprehend this activity. They require saturated conditions with uniform orthagonal (linear) flow.

These finger funnel flow paths may create gaps in the vadose zone that may be hit by monitoring wells when sampling for tracers to estimate recharge rates and water age. Finger funnel flow paths may also create significant cumulative connections between surface water to groundwater structures.



Legend:
Gap = Infiltration Gaps
Interface = Material Interface

Figure 3a. Funnel flow at field site. Initially blue dye (FD &C blue dye #1) was placed near the soil surface and the field was irrigated weekly (7.5 mm/h for 12-13 hours) for several weeks, the the site was excavated to examine water and chemical distributions throughout the soil profile. This figure shows the dye distribution after 22 cm of water application. Blue dye flowing vertically (unsaturated flow) moves laterally when it encounters a sloping coarse-texture lens. (Source: Soil and Water Lab, Cornell University)

Redirected Finger Funnel Flow infiltration and redistribution with unstable flow at layered soil profiles

Additionally, water may be channeled laterally by obstructions in the soil profile like coarse textured layers. Non-uniform water flow through soils may create significant disparity between precipitation measurements, infiltration, redistribution, soil moisture measurements, and bore hole sampling of tracers for estimation and interpretation of the above parameters. Erratic non-uniform movement of water does not fit well into Groundwater Availability Models designed for saturated orthagonal water flow.

These finger funnel flow paths may create gaps in the vadose zone that may be hit by monitoring wells when sampling for tracers to estimate recharge rates and water age. Finger funnel flow paths may also create significant cumulative connections between surface water to groundwater structures.

Legend:
Gap = Infiltration Gaps
Interface = Material Interface

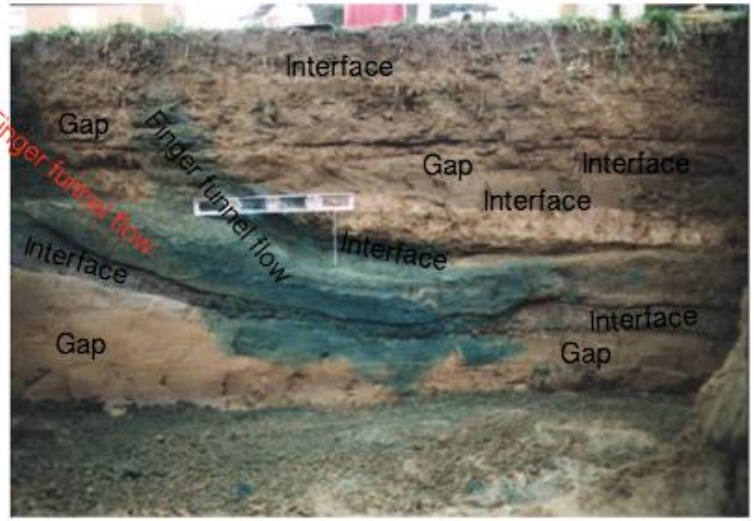
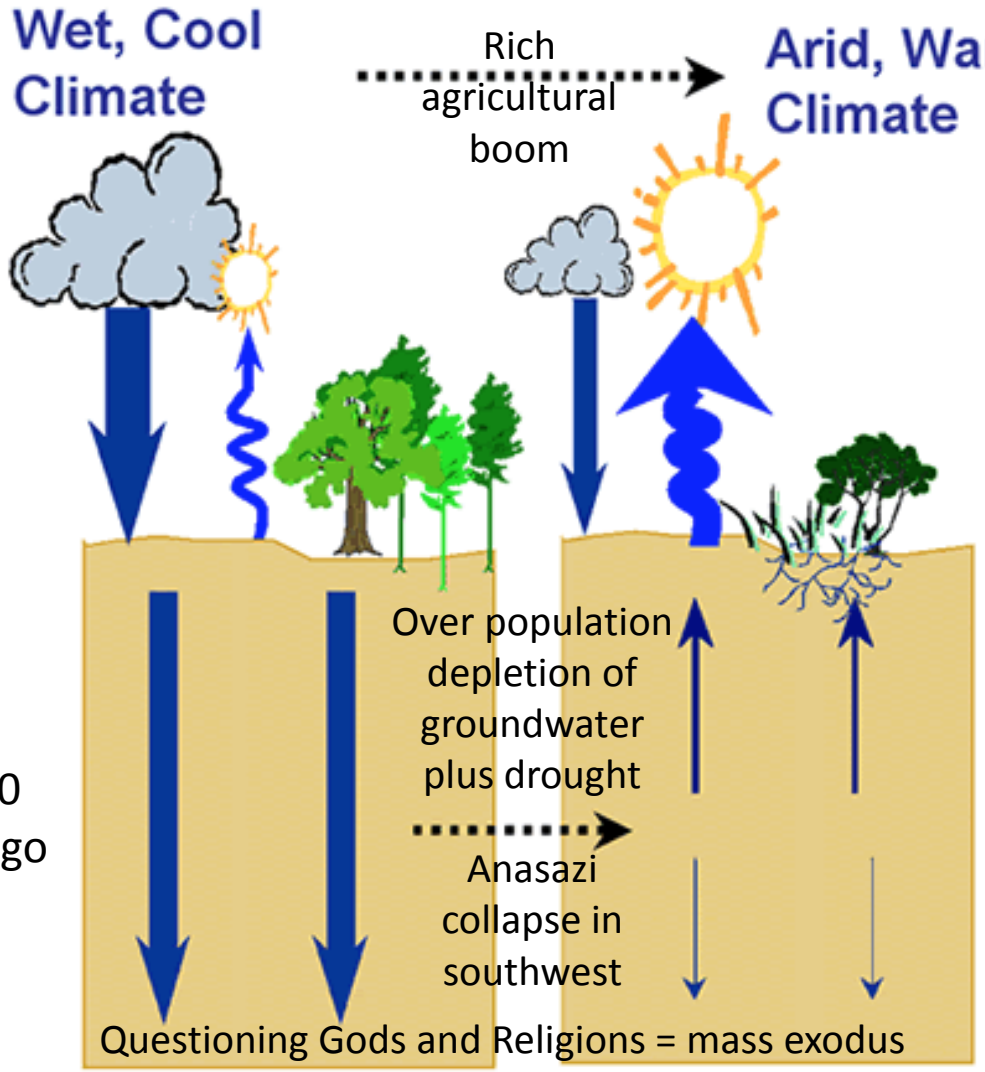


Figure 3b. This figure shows the dye distribution after 75 cm of water application. Additional dye penetrating into the coarse sand (from Fig 3a) appears to have moved freely and directly into the fine sand below. (Source: Soil and Water Lab, Cornell University)

Surface Water to Groundwater Connections: The Significant Nexus Time Machine



- 16,000 years ago the change from cold and wet conditions of the ice age to the hot and dry conditions of today caused desert vegetation to replace woodlands.
- Sediments beneath southwestern deserts have been drying out in response to this dramatic change in climate and vegetation.

Source: USGS Science for a changing world. Environmental Health – Toxic Substances. "Are Deserts Still Drying Out Since the Ice Age." toxics.usgs.gov/highlights/contamination

Destruction of Wildlife and Flora

- Navasota Ladies'-Tresses
  - Federally listed endangered on May 6, 1982
  - Occurs in Brazos, Madison, Robertson and Grimes County
  - Requires claypans & perched water tables beneath sandy or loamy soils
  - Occurs on both sides of Hwy. 21
  - The primary threat to NLT is destruction or modification of habitat.

©TBL Pest & Bird Control, 2010

Destruction of Habitats

- River Bottom Hardwood Forest
- Post Oak Savannah
- Perched Water Tables, Springs, Bogs and Sloughs
- Wetlands

©TBL Pest & Bird Control, 2010

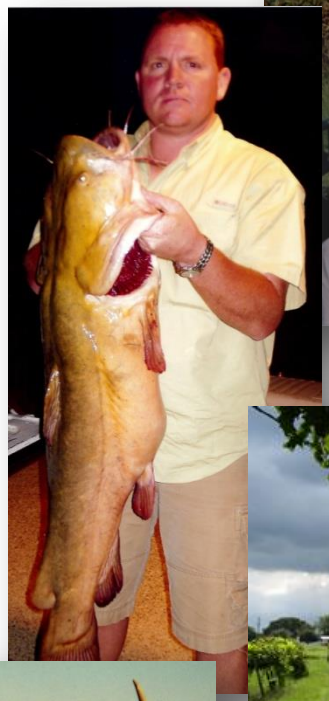
Damage to Hydrogeology

- Alluvial deposits, strata and clay pans
- Vertical percolation of water and artesian water
- Horizontal movement of water and artesian water
- Perched Water Tables, Springs, Bogs and Sloughs

©TBL Pest & Bird Control, 2010

Depress Agribusiness

- Farming and Vineyards
- Farm Credit and Banking
- Ranching
- Hunting and Exotics
- Game Fishing
- Small Businesses and Banking
- Home and Land Ownership
- Land Stewardship



©TBL Pest & Bird Control, 2010

Alternatives to Millican Dam [Panther Creek] & Reservoir

- Improve and Apply Technology to Metropolitan Areas
  - Desalination of Sea Water
  - Water Conservation
  - Water Recovery and Reuse
  - Storm Water Collection, Storage, and Flood Control

©TBL Pest & Bird Control, 2010

Humbling Earthly Facts: Where's the water?

- 97% of Earth's water is saltwater in oceans.
- 3% of Earth's water is fresh water.
- Where do we find that 3% fresh water?
  - 75% is in glaciers and ice sheets
  - 24% is groundwater
  - 0.33% is in rivers and lak
  - 0.035% is in the atmosph

100% Earth's Water

This is 1% of Earth's water
It supplies all the rain, snow, and daily needs of life!

SOURCE: Go Figure Academy of Science. www.dummies.com/understanding-the-weathers-water-cycle. A Wiley publication.

Thank you

Presented to

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Milano Civic Center
120 West Ave. E
Milano, Texas

By

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June 9, 2015

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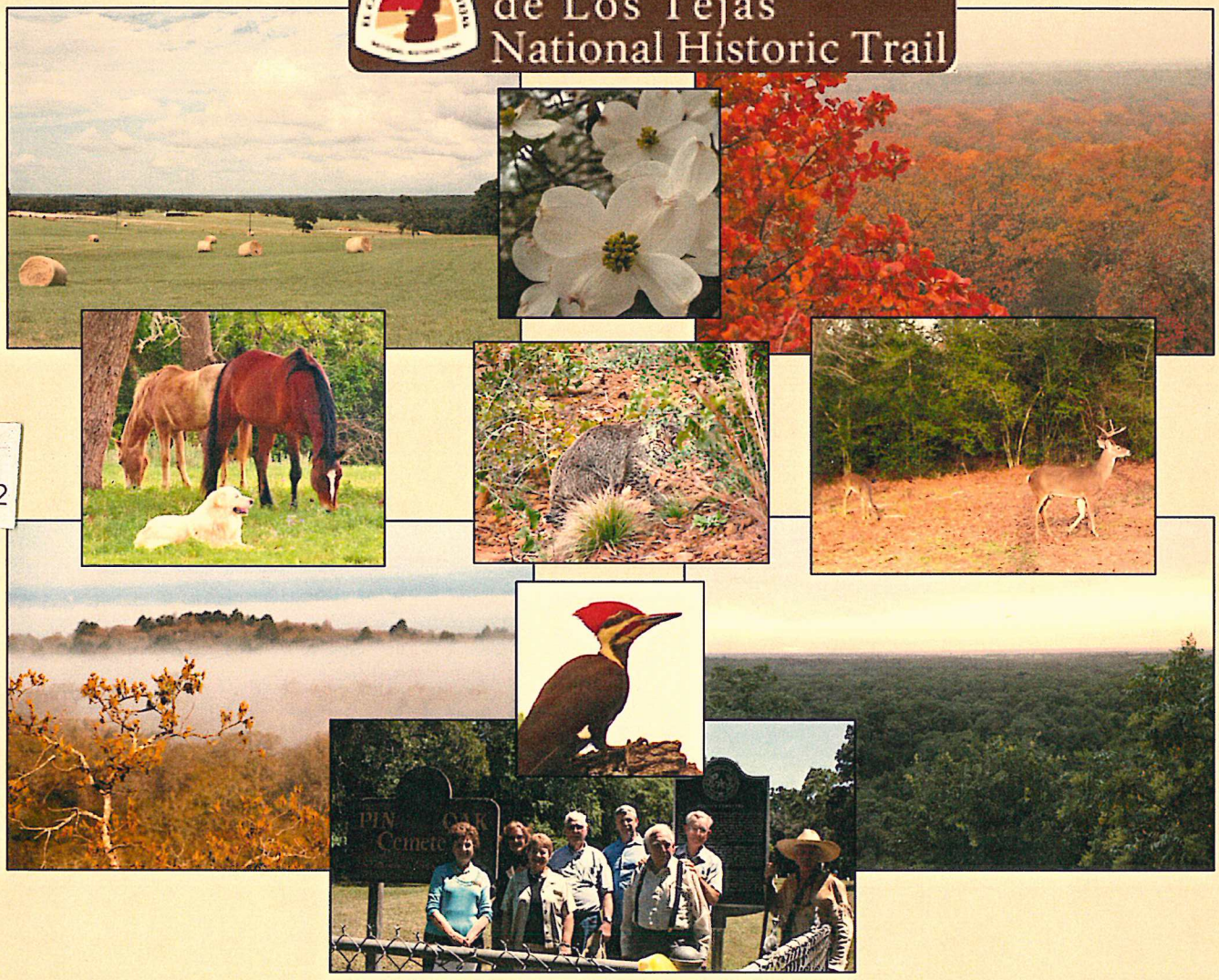
AUG 20 2015
Brazos River Authority

STOP Little River Off-Channel Reservoir

El Camino Real de Los Tejas National Historic Trail



E FAX
-886-6472

DON'T DESTROY MILAM COUNTY

stop.little.river.ocr@gmail.com

TABLE OF CONTENTS

- Executive Summary & Questions
- Letters & Photos
- Resolutions
- Pin Oak Cemetery
- El Camino Real Trail
- Family Land Heritage
- Petitions
- Community Engagement
- News Articles
- Facebook Campaign

Little River Off-Channel Reservoir

DETAILED TABLE OF CONTENTS

Executive Summary & Questions

- This section provides a brief overview of our case, recommendations, risk analysis, cost/benefit analysis, and errors within the plan. Additionally environmental, historical, and cultural impacts are explored. Questions are posed and we ask that you provide a thorough response to each question.
- Please note that throughout the packet there may be reference to other regions. This document fully explains our case to all Regional Water Planning Entities in the state.

Letters & Photos

- This section provides a random sampling of letters from a variety of stakeholders who are passionate about our cause and oppose the Little River Off-Channel Reservoir.

Resolutions

- This section provides documentation of the resolutions passed within our community opposing the LROCR.
    - Milam County Commissioners Court
    - Milano City Council
    - Gause ISD
    - Milano ISD
    - 22 Hills Homeowners Association
- Note: In addition, the Milam County Farm Bureau publically opposed the LROCR as noted in the Cameron Herald on July 16, 2015.

Pin Oak Cemetery

- This section provides a historical account of the Pin Oak Cemetery, a historic site in the state of Texas. 1,706 out of 50,000 cemeteries are recognized by the state as historic sites, which means the Pin Oak Cemetery is listed among 3% of historic cemeteries within approximately 171 million acres in the State of Texas. There are about 130+ graves, including 9 graves of Civil War soldiers and one soldier from the Korean War.

El Camino Real Trail

- The El Camino Real is one of nineteen national historic trails in the United States. Each of the nineteen trails was designated because of its high historical significance. National Historic Trails are designated only by an act of Congress. The El Camino Real de los Tejas spans 2580 miles across 40 counties and 2 parishes and 2 states and was established by U. S. Congress in 2004. The Trail through Milam County features several sites designated as significant by the National Park Service. The area to be affected by the proposed reservoir is critical to the history of the Trail. Sugarloaf Mountain is likely the site of a Rancheria Grande, a fact which could not be proved if the area is under water. Should any part of the Trail be placed under water, evidence of its historical significance would be gone forever.

Family Land Heritage

- The Texas Department of Agriculture recognizes families across the state through the Family Land Heritage Program. This designation denotes that their property has been a continuous agricultural operation for over 100 years. Several families have or are in progress of attaining this significant historical designation.

- Shafer Farms (105 years) – Honored 2010
- Arnold Kornegay (134 years) – Honored 1998
- Joe Hobbs (100+ years) – in progress
- Willard & Joy Kornegay (134 years) – in progress
- Judy & Joseph Marks (133 years) – in progress
- Melvin & Loretta Wall (101 years) – in progress
- Virgil Wall (100+ years) – in progress
- Gerald & Joan Wise (100 years)– In progress
- Harold C. Shafer (100 years) – in progress

- Century old farms and ranches should never be taken from private landowners!

Petitions

- Supporters disseminated hard copy and online petitions. Total numbers supporting our cause are listed below:
  - Hard Copy: 1,397 hand written signatures
  - Change.org Petition: 1,045 (as of August 16, 2015)
  - GRAND TOTAL: 2,442 signatures
- The petition on Change.org allowed a space for testimonies, which are included as documentation.

Community Engagement

- Landowners and supporters in Milam County are leading a grassroots movement to stop the Little River Off-Channel Reservoir. This section provides documentation of our efforts and a sampling of speeches given to the Brazos G board. Highlights are listed below:
  - June 11, 2015 Community Meeting:
    - Over 100 landowners and supporters attended a meeting at Gause Baptist Family Life Center to get involved and get informed.
  - June 23, 2015 Brazos G Public Hearing:
    - 150+ community members attended the Brazos G Public Hearing to oppose the Little River OCR. 14 speakers spoke against the reservoir.

News Articles

- This section includes copies of articles from local newspapers. Newspapers listed are:
  - Cameron Herald
  - Rockdale Reporter
  - Robertson County News
  - The Eagle
  - The Temple Daily Telegram
- Additionally, local news and radio stations have been following our cause. Please see the attached DVD to watch the news footage.

Facebook Campaign

- This section provides documentation from our Facebook Campaign. Slides cover testimonies from local citizens, recommendations on how to get involved, and educational resources. Please visit the Stop Little River Off-Channel Reservoir Facebook page to see posts and testimonies from over 490 members who are involved in our campaign. Weekly themes include:
  - Testimony Tuesday: Shares the voices of landowners and supporters
  - What to do Wednesday: Highlights how citizens can get involved
  - Thought-Provoking Thursday: Highlights educational resources and ideas

EXECUTIVE SUMMARY

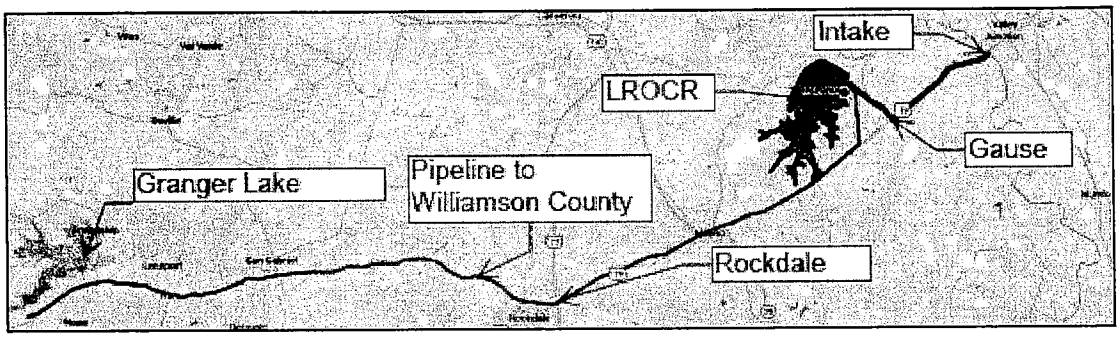
Overview: Region G

This section provides a brief overview of our case, recommendations, risk analysis, cost/ benefit analysis, and errors within the plan. Additionally environmental, historical, and cultural impacts are explored. Questions are posed and we ask that you provide a thorough response to each question.

Little River Off-Channel Reservoir

Executive Summary: Stop the Little River Off-Channel Reservoir

Brazos G, the Region G Water Planning Group, has proposed the Little River Off-Channel Reservoir (LROCR) as a recommended water supply strategy in the 2016 State Water Plan. The LROCR would flood 4,343 acres just northwest of Gause, Texas as shown in the map below. The primary motivation for recommending the LROCR is to meet the future water needs of various water supply entities in Williamson County. The LROCR would store water pumped via an 8 mile **144 inch pipeline** from the Brazos River. Water would be delivered to a water treatment plant near Lake Granger via a 45 mile 48 in pipeline. The LROCR is expected to store 155,812 acft of water with a confirmed yield 56,150 acft/year.



The LROCR should not be a recommended strategy.

The LROCR is a very costly, environmentally and culturally destructive, and inefficient reservoir with both a high risk that it cannot be built and a high risk that, if completed, it will fail.

The LROCR is less than half as cost effective as the planned Allens Creek OCR located near Houston. The LROCR project would commit the citizens of Williamson County to a water rate increase of more than 45% for at least 20 years, and then very possibly would not be able to supply them with water.

About **40% of the LROCR overlaps the Carrizo-Wilcox aquifer recharge zone**. The reservoir would likely leak into the aquifer and therefore not have water in drought times to supply to its users. Even if testing reveals this in time to stop the project, the citizens of Williamson County will have lost 15-30 years of opportunity to pursue other, far less costly and destructive, alternatives such as waste water reuse, aggressive conservation, and drought management strategies. Of course if testing fails to stop the project (the science is very weak in this area), and it fails after construction then they will be saddled with their share of the $500 million construction costs and have no water.

There is a good chance that the project will fail over permits or land acquisition. The Army Corps of Engineer requires reservoir projects be the **least damaging alternative** to meet water needs. And the Texas property code requires that condemnation to acquire water rights may only go forward if the municipalities to receive the water rights have already implemented conservation to the **highest practicable level**. Both of these criteria will be very hard to meet in the light of the very strong local resistance to the project. Again, failure 20-40 years from now will have a huge and destructive impact on the citizens of Williamson County.

Finally, there is the local impact to consider. The LROCR is to flood 1000's of acres of prime, unspoiled wildlife habitat, and almost the entire length of two pristine creeks, Alligator and Yellow Rabbit. Almost 2 miles of the El Camino de los Tejas National Historical Trail, an active Texas Historical Cemetery, and several sites rich in Native American artifacts will be gone. And, of course, the lives of many families with ties to the land going back centuries will be forever damaged.

Comments and Recommendations on the Little River Off-Channel Reservoir as described in the "Initially Prepared 2016 Brazos G Regional Water Plan"

Mike Conner
PO Box 8, Gause, TX 77857
mike@conner.net

1 Recommendations

The justification for these recommendations is explained in detail starting in Section 2 below. A list of errors and/or anomalies in the plan is given in Section 4 below.

1.1 Remove the LR-OCR from the recommended list in the 2016 plan

The very high relative cost of the LR-OCR combined with the extreme risks to implementation and effectiveness make the LR-OCR an unsuitable solution to the water needs identified in the plan. Given the high risks to completion it is necessary to develop alternative approaches anyway. Those approaches (most likely more aggressive conservation combined with aggressive waste water reuse) should be the recommended solutions. The very real risk that the LR-OCR would not be effective if completed due to leakage through the underlying aquifer recharge zone makes pursuing the LR-OCR project now or in the future unconscionable. Conservation and waste water reuse are better, lower cost, lower risk alternatives to the LR-OCR.

1.2 Remove the LR-OCR area from the Unique Reservoir Sites list and from evaluation in future water plans

The arguments given above against the LR-OCR will not change in the future. Its makes no sense to list a reservoir with a 40% overlap of a major aquifer's recharge zone as a possible solution. It certainly does not meet the criteria for a Unique Reservoir Site and it does not justify the expense of continued evaluation in the future. It should be removed completely from the 2021 and subsequent water plans.

2 Risk Analysis

This section presents a number of risk factors that could prevent the LR-OCR from being constructed or compromise its utility if it is constructed. These are presented to support our recommendations.

2.1 Overlap with the aquifer recharge zone

About 40% of the planned LR-OCR Reservoir is over the Carrizo-Wilcox aquifer outcrop. This means the reservoir may "leak" into the aquifer. Testing can show that this is true, but cannot really prove that it won't happen. Too little is known about the underlying geology and about surface water/groundwater interaction to insure that major leaking will not occur after 10 or 20 years. This is especially true as the underlying aquifers are barely pumped today, but will be very heavily pumped in the decades to come. So even if testing predicts an acceptable level of leakage, this could increase over time rendering the reservoir nearly useless, but leaving the BRA and LR-OCR Users with nearly 500 million in capital costs. And, of course, all the damage to the community and environment cannot be recovered.

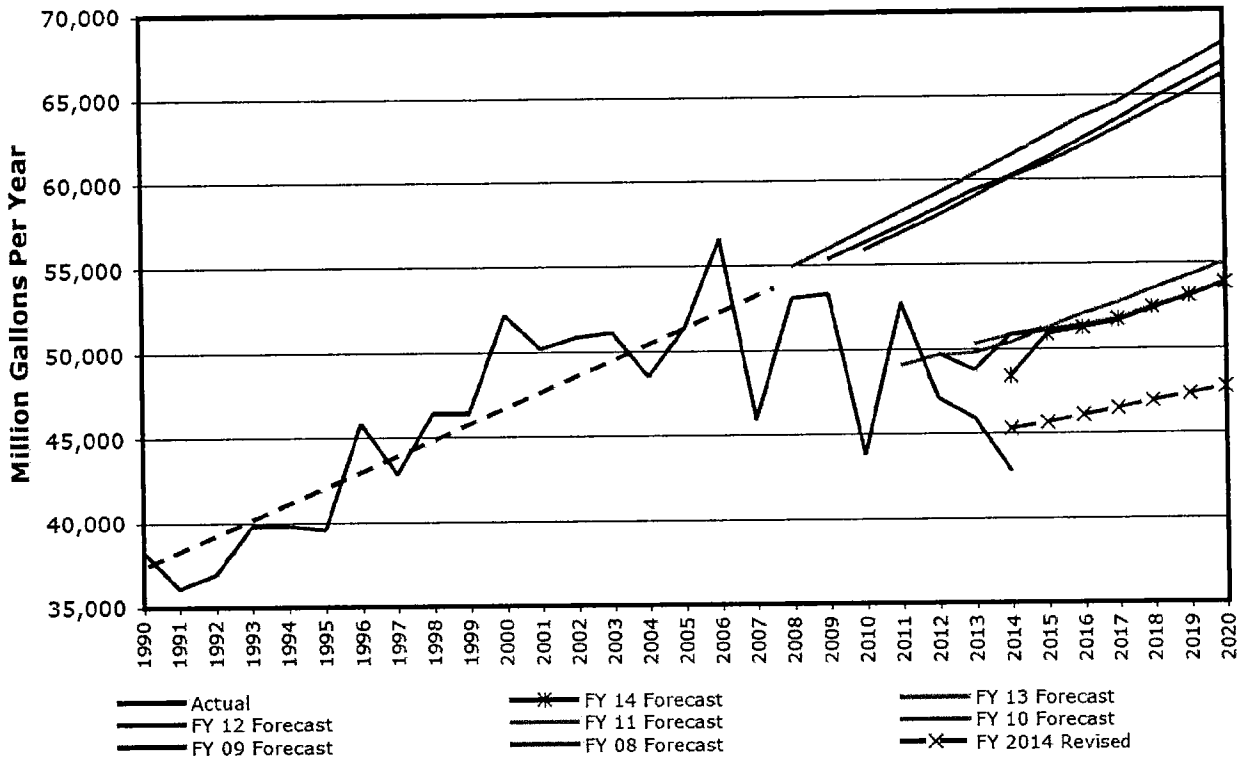
2.2 Permitting

The Army Core of Engineers requires a reservoir to be the least damaging of all practicable alternatives. As 95% of the growth in Williamson County water needs in 2070 comes from metropolitan use it is clear that more aggressive conservation, combined with waste water reuse, are practicable solutions to Williamson County's predicted future water shortages, and these solutions would be dramatically less damaging than the LR-OCR. Therefore, given the high level of scrutiny from the community impacted by the LR-OCR, the Army Core of Engineers would not be able to issue a permit to build the LR-OCR.

2.3 Reduced Need

There is good evidence that water planners underestimate the future benefits of conservation. The chart below, compiled by Bill Bunch, a leading Austin environmental lawyer, shows that Austin's water planners have had to continually reduce their forecasts for future water needs because conservation has continually out performed expectations. This means that the costs of LR-OCR could be passed on to water users that don't actually need the water.

Chart 1: Austin Water Utility Predictions and Trends vs Actual Use Volume



2.4 LAND OWNER RESISTANCE

The first community meeting to organize resistance to the LR-OCR drew about 140 people (a very substantial fraction of the entire community that would be impacted by the LR-OCR). At the Brazos G Public Input Meeting on June 23, 2015 the number of attendees filled the meeting and overflow rooms. Almost all of these people were there to protest the LR-OCR. Virtually every one of the 2-hours' worth of presentations was to protest the LR-OCR. Much of the land has been held by the same family for many generations. The landowners, in general, made it abundantly clear that they were not interested in selling their land at any price. Therefore, eminent domain condemnation will be necessary to acquire the more than 4,300 acres to the flooded by the reservoir. Three highly respected lawyers (two with extensive environmental law experience) have stated that "Sec. 21.0121. CONDEMNATION TO ACQUIRE WATER RIGHTS" of Texas property law (copied with markup below) would apply to any condemnation actions taken to support the reservoir.

This section gives land owners very strong rights to resist condemnation. Note that conservation must be "developed and implemented," not just planned. There seems to be no reason why Region H municipalities cannot achieve the level of water conservation achieved, say, in parts of Albuquerque, NM where all the houses have xeriscape lawns. This would reduce "consumed" water drastically, allowing conservation and especially reuse to easily meet their needs.

Note also, that the law places the burden of proof on the political subdivision not on the landowner and the court is ***required*** to deny condemnation unless all the criteria are met.

Thus, given the overwhelming landowner determination to retain their land, and the very high bar set for condemnation, it is very unlikely that the necessary land for the LR-OCR can be acquired.

> ***Sec. 21.0121.*** *CONDEMNATION TO ACQUIRE WATER RIGHTS. (a) In addition to the contents prescribed by Section 21.012(b), a condemnation petition filed by a political subdivision of this state for the purpose of acquiring rights to groundwater or surface water must state that the facts to be proven are that the political subdivision has:*
>
> *(1) prepared a drought contingency plan;*
>
> *(2) developed and implemented a water conservation plan that will result in the highest practicable levels of water conservation and efficiency achievable in the political subdivision's jurisdiction;*
>
> *(3) made a bona fide good faith effort to obtain practicable alternative water supplies to the water rights the political subdivision proposes to condemn;*
>
> *(4) made a bona fide good faith effort to acquire the rights to the water the political subdivision proposes to condemn by voluntary purchase or lease; and*
>
> *(5) made a showing that the political subdivision needs the water rights to provide for the domestic needs of the political subdivision within the next 10-year period.*
>
> *(b) A court shall deny the right to condemn unless the political subdivision* ***proves []*** *to the court that the political subdivision has met the requirements of Subsection (a).*
>
> Added by Acts 2003, 78th Leg., ch. 1032, Sec. 1, eff. Sept. 1, 2003.

2.5 Environmental and Cultural Issues

Other people have explained in detail the environmental and cultural risks associated with building the LR-OCR including:

- Over 1.5 miles of the El Camino Real de los Tejas National Historic Tail would be submerged.
- A 150+ year old cemetery would be flooded.
- Numerous sites with extensive ancient cultural artifacts would be flooded.
- Many miles of pristine creek bed would be destroyed.
- About two thousand acres of prime wildlife habitat would be destroyed.

Mitigation delays and costs would be enormous, and there is the real possibility that the project would not get all its necessary permits.

3 Cost/Benefit Analysis of LR-OCR

This section presents a cost/benefit analysis of the plan to support our recommendations that follow. The plan gives the following project costs:

Reservoir Related Costs	
Total Cost of Construction	$ 248,761,000
Fixed Annual Costs	$ 20,932,000
Annual Costs That Directly Scale With Water Usage	$ 2,256,000

Delivery Related Costs	
Total Cost of Construction	$ 238,850,000
Fixed Annual Costs	$ 24,416,500
Annual Costs That Directly Scale With Water Usage	$ 11,322,861

In the above I divided the annual costs into those unrelated to the amount of water pumped and those that might vary based on the amount of water pumped. To be conservative in my cost estimates I assumed that the part of annual cost that varies with water usage varies in direct proportion to the amount of water used. I.e. if half the maximum yield is used then only half the variable cost would be incurred.

3.1 Funding Model

Based on the plan cost tables I assume g that BRA pays for the reservoir and sells water to the LR-OCR Users at its system rate. And, that LR-OCR Users pay for delivery related costs (pipeline to Williamson County, water treatment plant, etc.).

3.2 Impact to BRA System Rate

In 2014, BRA had 294,506 ac-ft under its system rate contract, out of 669,225 ac-ft under all contracts. By 2019 they hope to have 388,993 ac-ft under its system rate contract. In order to be conservative and allow for increased use of the system rate contract and allow for changes in rate of other adjustable rate contracts, I used 500,000 ac-ft/year as the amount under the system rate contract.

With this assumption BRA would have to distribute their share of annual costs over 500,000 ac-ft/year which comes to about $45 per ac-ft as the LR-OCR Users start to increase their usage in 2060. **This would mean more than a 65% increase to BRA current system rate** of $69.50 per ac-ft/year.

3.3 Comparison to Allens Creek Reservoir

BRA is currently pursuing the construction of a reservoir on Allens Creek. This reservoir would have a yield of 100,000 ac-ft/year at a cost of $195,000,000. This gives a construction cost of $1,950 per ac-ft/year verses a cost of 4,430 per ac-ft/year for the LR-OCR. Thus the LR-OCR is very expensive for the amount of water produced verses a currently planned reservoir.

3.4 Cost to LR_OCR Users

The following table shows the cost of water from the LR-OCR to the LR-OCR Users. It shows that the cost of water is extremely high, at least until 2060.

Decade	2020	2030	2040	2050	2060	2070
Annual Cost to LR-OCR Users		$25,153,455	$26,516,541	$28,208,187	$31,063,328	$35,739,361
Cost per acre foot to LR-OCR Users		$ 9,528	$3,525	$2,077	$1,305	$881
Cost per 1000 gallons to LR-OCR Users		$ 29.24	$ 10.82	$ 6.37	$ 4.00	$ 2.70

The following shows the impact on The City of Hutto, based on Hutto having to cover 21% of the LR-OCR Users costs. The table uses data from the Texas Water Development Board for Hutto's project water needs. It show what dollar cost would have to be added to Hutto's water rates (assuming the cost was distributed equally over all water users) and what the percentage increase that cost would be over Hutto's current $6.98 rate.

Decade	2020	2030	2040	2050	2060	2070
Projected water needs	3,767	5,189	6,992	8,937	11,144	13,428
Projected water shortages		378	2,121	4,001	6,215	8,499
Increase in water cost to Hutto users per 1000 gallons		$ 4.85	$ 3.79	$ 3.16	$ 2.79	$ 2.66
% Increase (based on $6.98 rate)		69%	54%	45%	40%	38%

This shows that impact on utility customer will be very high even in 2070 and extremely high prior to 2050.

3.5 Summary

The LR-OCR is a very expensive, inefficient reservoir. It would have a major impact on water utility customer's rates and an unreasonable (for the benefit derived) impact on BRA's system rate contract users. There must be better alternatives.

4 Errors/Anomalies

There are a number of errors and/or anomalies described below. Some of the specified "corrections" are used in the following sections of this document.

4.1 Table 5.36-19 regarding Williamson County – Other

Table 5.36-19 Currently Reads:						
Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	20,000	20,000	20,000	20,000	20,000	20,000

The Table Should Read:						
Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	(27)	2,262	5,402	5,242	9,890	14,243

The revised numbers, above, are derived directly from the projected shortages in the table minus to supply to be derived from other sources.

4.2 Tables for LR-OCR Users do not show conservation savings

None of the tables for LR-OCR Users (Milam County – Steam Electric, Chisholm Trail SUD (Williamson County), Round Rock (Williamson County), City of Hutto (Williamson County), and Williamson County – Other) show any savings over the decades from conservation. For example:

Table 5.36-9. Recommended Plan Costs by Decade for City of Hutto

Plan Element	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*(2,256)*	*(3,678)*	*(5,481)*	*(7,426)*	*(10,193)*	*(12,477)*
[illegible]						
Supply From Plan Element (acft/yr)	—	—	—	—	—	—
Annual Cost ($/yr)	—	—	—	—	—	—
Projected Surplus/(Shortage) after Conservation	*(2,256)*	*(3,678)*	*(5,481)*	*(7,426)*	*(10,193)*	*(12,477)*

Either all conservation savings have already been factored in. In which case they should be factored out to be consistent with the rest of the plan and for transparency. Or, no advanced conservation strategies have been planned. In which case they should be added and the projected shortages after conservation should be adjusted.

4.3 Table 5.38-3 has wrong values for supply from LR-OCR

Table 5.38-3 Currently Reads:

Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	56,150	56,150	56,150	56,150	56,150	56,150

It Should Read:

Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	15,588	15,588	15,588	15,588	15,588	15,588

This table occurs in the plan document in the context of how the projected BRA LR System shortages can be supplied. As the plan commits 40,562 ac-ft to LR-OCR Users, it is not available to meeting BRA LR System shortages.

4.4 Unrealistic Completion Date

Section "5.38.2 Brazos River Authority (Little River System)" gives a completion date for the LR-OCR of "before 2020". Section "5.36.25 County-Other" gives a completion date of 2020. These dates are completely unrealistic and should be moved out. We recommend, below, that these dates be set to 2060 or 2070, but certainly no sooner than 2050.

4.5 Dam Size Error

Section "4.7.1 Description of Option" says the dam for the LR-OCR would be approximately 1-mile long. This appears to be a typo as the dam would be approximately 3.5 miles long.

Brazos G Water Planning Group & HDR Inc.

Questions from the Stop Little Off-Channel Reservoir Campaign

- As you know there is over 17 million in budget for land acquisition, permits, surveys, etc, if you do the math and use the entire amount in budget for land acquisition it works out to a little over 4K an acre. What about houses, barns, fencing, roads, man-made ponds? Are landowners just donating those items?

- The legislature requires these plans to address the socio-economic impacts of their decisions. This plan primarily looks at the cost of dam construction, scalping the river and transporting it to the reservoir and its annual operational cost that would be the responsibility of the final user via purchase price. There is very little regarding the collateral impacts placed upon the "giving property owner/area." Please consider and respond to the following aspects:
    - What will be done to prevent loss of the existing bucolic environment (property value)?
    - What will be done to prevent loss of aquatic habitat?
    - What will be done to prevent loss of wildlife habitat?
    - What will be done to prevent loss of natural resources?
    - What will be done to prevent loss of cultural resources (ECHT, Indian artifacts, cemeteries, legacy farms, etc.)? How will cultural resources be addressed?
    - How will threats to natural resources be addressed? (may lower stream flows, declining water quality, inundating the Corizzo-Wilcox recharge zones affecting aquifers, etc.)
    - How will threat to Acquisition and/or mitigation of possible mineral rights (oil & gas, lignite, sand & gravel)
    - How will you address plugging of Existing wells, raising existing wells and relocation storage tanks
    - How will you address acquisition and/or mitigation of groundwater rights
    - How will you address loss of 4300+ acre tax base to Milam County
    - Without stream inflow, there is no "lake front" property value. How will you address possible devaluation of surrounding property?
    - How will you address loss of crop/pasture land value?

- What alternative plans are you considering instead of building a reservoir?
    - Are you considering immediate implementation of aggressive water conservation education and policies? Why not enforce stricter water conservation policies TODAY , not 20 years from now?
    - Are you considering waste water reuse?
    - Are you considering desalinization? About 71% of the earth is covered with water? Why not use it? Israel is roughly 100% dependent on desalinization and it is working.

- How will the financial impact of having land being held under the cloud of possible flooding be mitigated during the 20-40 years before possible construction?

- What is the typical buffer needed around a reservoir? How many more acres will be needed at the location for buffers?

- How will water-locked areas be handled? Condemned or access provided?

- How will you contact the family's loved ones who are buried in the Pin Oak Cemetery? Where will you put the bodies of the loved ones you cannot connect with?

- What will be done with the Historical Marker for the Pin Oak Cemetery? Where will it be placed? Who will work with the Historical Commission?

- Several farms/ranches have been designated by the Texas Department of Agriculture as property that has been a continuous agricultural operation for over 100 years by the Family Land Heritage program, how will you work with these families who will lose more than just a piece of land...they will lose their heritage?

- Why aren't Aquifer Storage and Recovery plans being considered? Research has shown that they are less damaging to the environment and you do not have to take away property from landowners?

- What voting percentage is required to put the LROCR project in the final plan? (simple majority of 66% or is it merely 51%)

- Will it be public knowledge who voted yea or nay?

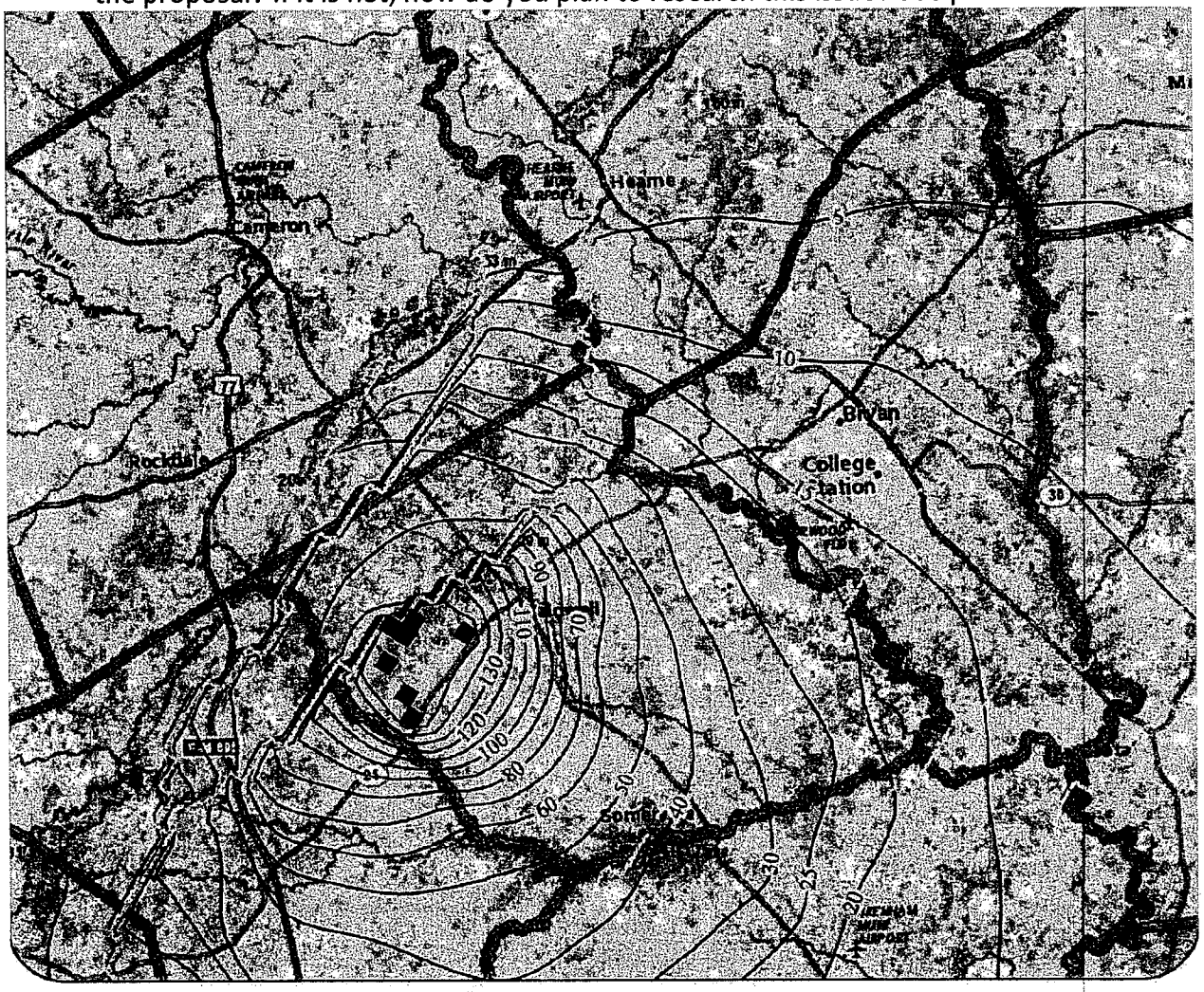
- How can the voting members make an informed decision when they know less details than anyone?

- What factors make it the best spot compared to the other 14 or so sites?

- Why not lay a pipeline from the river to the final destination rather than lose the millions of gallons to absorption and evaporation?

- How will this affect the San Gabriel River and Brushy Creek? Will the Little River Project result in possible flooding issue back to these feeder River/Creek?

- According to the Brazos Valley Groundwater Conservation District, the Mexia-talco fault line is within the proposed area? How is this being factored into your projections within the proposal? If it is not, how do you plan to research this issue? See photo below:



Explanation

Simulated Additional Drawdown

Vista Ridge Pumping Locations

Carrizo Outcrop

Simulated Fault

Simulated estimated production from Vista Ridge project in Burleson County.
- Carrizo Pumping = 15,000 acre-feet/year
- Simsboro Pumping = 35,000 acre-feet/year
- All production begins in 2020

Contours represent drawdown greater than that resulting from GMA 12 DFC runs calculated from simulated January 1, 2000 water levels.

LBG GUYTON

Brazos Valley GCD
Effect of Potential Vista Ridge Pumping
Add'l Carrizo Drawdown - 2070

- In sum, how will you thoroughly address the economic, agri-business, social, environmental, cultural, and geological issues that have been addressed at the public hearing, board meeting, and in the future?

LETTERS & PHOTOS

Overview:

This section provides a random sampling of letters from a variety of stakeholders who are passionate about our cause and oppose the Little River Off-Channel Reservoir.

Little River Off-Channel Reservoir

SHEHANE

149 Walcourt Loop | College Station, Texas 77845 | 979.229.1831 | melissa.shehane@gmail.com

Brazos G Regional Water Planning Group
c/o Trey Buzbee
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

August 14, 2015

Dear Brazos G Regional Water Planning Group,

As I drive through the winding rolling hills on Farm to Market Road 2095, I reflect not only on the life I have lived but the life I envisioned for the future. I pass the land that my childhood friend lived on where I hear distant giggles and feel scraped knees from sandy bicycle rides. I see the pond where my father taught me and my young son to fish, I see the endless hay bales my father has tirelessly baled over the past 40 years, I see the meandering beef cattle looking for the best blades of grass, I see my grandmothers home that still smells of banana bread, and I hear the peaceful flow of the Pin Oak Creek. I pull over to the side of the road, alone in my thoughts, and weep. I ask myself, why is this happening to me, my family, these wonderful hardworking people of Milam County? What is God trying to teach me? Why do I feel like I am living a nightmare? Why would anyone in their right mind want to flood 4,334 acres of pristine cattle ranches and forest that would be of no benefit to Milam County? The answer is and will continue to be...there is **NO good reason** for this thoughtless act of destruction.

My name is Melissa (Baumann) Shehane and I am the 4th generation on my family's land. My agricultural lineage is and will continue to run deep until the day I die. I am 33 years old, am part of the millennial generation, earned a B.S. in Renewable Natural Resources and a Ph.D. in Agricultural Leadership, Education, and Communications. More importantly, I was born and raised on my family's land. My parents, grandparents, and great-grandparents' homes are all located on FM 2095 and are in the heart of the proposed Little River Off-Channel Reservoir. Everything I have known, my identity, and my children's identity will be ripped away by uniformed decision makers. I look into the tear filled eyes of my parents, who have given a combined total of 91 years in K-12 education in the state of Texas and were granted the honor of Texas A&M University Parents of the Year in 2005, and my soul aches. They do not deserve this! More important Milam County does not deserve this!

Marion Brewer Travis
707 East 16th Street
Cameron, TX 76520

254-697-4098
marion_travis@sbcglobal.net

June 19, 2015

Brazos G Regional Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, TX 76710

RE: BRA Region G Adds Insult to Injury to Citizens of Milam County, TX

Dear BRA Region G Members:

Although qualified to do so, I have to do no academic research to assert that your Brazos G Regional Planning Group seeks, perhaps unwittingly, to add a shameful new chapter of neglect to the people of Milam County. Most of my long life has been lived in Central Texas; accordingly I am a witness to Brazos River Authority's disregard for the topographical realities of this county since the BRA's beginning in the 1930s.

Born in Cameron in 1929, I grew up on the upland of Little River immediately north of Cameron. My family's property included Little River bottomland that frequently flooded my family's crops. Occasionally the floods were beneficial; otherwise they were destructive. Thanks be to God we were fortunate to have other sources of income. We were excited about the creation of Brazos River Authority expecting improved life in Milam County. Naively, we believed Milam County—crossed by Little River—would benefit someday. No one knew that BRA planning from the beginning would disregard, even exploit, Milam County's people.

Now we see that BRA practices over untold decades have encouraged economic development elsewhere in the Brazos basin while its policies continue to degrade our environment.

Little River's watershed embraces 2,349 square miles, which means, according to the U.S. Geological Survey, it is bigger than the two U.S. states--Delaware at 2026 square miles and Rhode Island at 1213 square miles.

dam, the old dam is demolished. The result is a greatly increased water supply for nearby population.

The above would be only the beginning of other solutions for water supply rather than the proposed off-channel reservoir in Milam County.

To be sure, water is an essential of life. It must be provided for Texans. But in the U.S.A. planners affecting the public good shall exhaust all possibilities before sacrificing private property when such an action will produce no *comparable* benefit to citizens stripped of their land.

I demand that BRA Region G shall take a long, second look at what it is proposing.

Very truly yours,

Marion Travis

Copies: Texas Senator Charles Schwertner
Texas Water Development Board
Temple Daily Telegram
The Cameron Herald

Dan Fischer

1808 22 Hills Road
Gause, TX 77857-7321
d-r@usa.com

August 10, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, TX 76710

Dear Mr. Buzbee:

I am writing again to strongly oppose the use of the Little River Off-Channel Reservoir as a means of meeting your planning requirements for the Brazos G Regional Water Planning Group. I am an affected landowner and will lose most of my land if this lake is ever built. I hope you and your planning group will think very carefully before you vote to continue including the Little River Off-Channel Reservoir as part of the plan.

There are a number of issues I have with this proposal and hope you are open to considering these facts in your deliberations. I am also requesting that you provide this letter to your board members as part of their deliberation sequence.

First, are you aware that this proposed site is right on top of our aquifer recharge outcrop zones? I am no expert, but I seriously doubt that it will even hold water since it would probably drain directly into our aquifer (which in and of itself would not be a bad thing!). But do you really want to spend millions of dollars of somebody's money only to have the lake not hold water? I would think your engineering firm would have recognized this problem from the beginning.

Why locate the reservoir in Milam County? Why would you consider taking land away from people in Milam County simply to provide water to some other county? If you want the water for another county, then let them have the lake in their county. It would cost you less to operate because you could just pipe the water directly to their location from the rivers rather than store it somewhere in between (i.e. Milam County) and have to pipe the water twice. I am quite sure none of you are impacted by this, in that you have not voted to condemn your own land. That is not something you would like is it? All of the sudden, the issue becomes personal to you and your reaction is that there is no way you would allow that. Well, that is what you are doing when you take my land that I worked hard for and use it to benefit somebody miles away.

In addition, by taking this land for the reservoir, you will be removing the land from the Milam County tax rolls. That means Milam County citizens will be paying higher taxes for absolutely no benefit. Again, put it in the county it serves. In essence, what you are

I am under the impression that the way you arrive at the amount of water needed is by using the lowest annual rainfall year and then assuming that year is the basis for determining the amount of water needed by the geographic area you are attempting to help. If that is the case, then your methodology is seriously flawed because that means you are proposing a solution to a problem that does not exist and one that has an extremely low probability of ever existing again. Sure, there are record breaking years for least or most rainfall, but those are extremes. You should be planning for what is probable and NOT something that is a worst case scenario and one that is not likely to last long or to be repeated. I guess that would be ok if you had all the money in the world and there were no negative impacts. But, to create this solution based on a single worst year, or even a number of "worst" years, you are not planning properly. That just does not make any sense.

I have been on many boards in my life and I know how boards make decisions. It is very easy to sit in the boardroom, hear presentations, and then vote to do something because it sounds good at the time. When it does not affect you, it gets easier and easier to take something away from somebody else. You can even try to justify it as being for the common good. Well, I think your board needs to think abut the personal side of the equation and balance the benefits against the negative impacts. How would you feel if it were to be on your land? Would you want to lose your land because some group of people, who probably have never even been to the site, use the worst year in history to assume that is what the average need will be, plus select a location that won't hold water and is not even close to the people to be served, and one that covers up a Federal Historical Trail? This Little River Off-Channel Reservoir just does not make any sense as currently proposed. It does not pass the common sense test. There is no "common good" for the citizens in this area and it appears you have a solution in search of a problem.

I respectfully ask that you vote against the inclusion of this version of the off-channel solution in the next version of your plan.

Yours Truly,

Dan Fischer

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR

stop.little.river.ocr@gmail.com

August 7, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

I am writing this letter to **oppose** the Little River Off-Channel Reservoir proposal highlighted in the Initially Prepared 2016 Brazos G Regional Water Plan. I am a concerned citizen and teach environmental conservation and wetland regulations at Texas A&M University.

The concerns of mine are the impact of the reservoir on Waters of the United States, Federal Wetland Justification (Clean Water Act Section 404) and Endangered Species. Beaver Creek would fall under jurisdiction of the Waters of the US by current and proposed laws. The stream area has both riparian and wetland areas that support a vast diversity of species, both flora and fauna. Many of these species fall under the Endangered Species Act as detailed by the HDR report (48 species listed). Areas not adjacent to the stream also have Endangered Species.

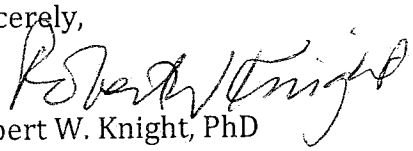
One factor that is not mentioned in any report is the fact that the Brazos River water is very low quality and high in sediment. This high sediment load would decrease the holding capacity of the reservoir fairly rapidly. This would decrease the life of the reservoir and increase the operating costs.

The HDR says that there is no agricultural land impacted which is totally wrong. Much of the proposed reservoir site and transmission pipelines right of ways contain prime farmland. This farmland is the only source of income for some of the residents in the area.

The impacts of the massive pipelines on the environment are also not discussed. Many acres of land will be disrupted by the pipelines. These lands also contain endangered species, historical sites and prime farmland.

Members of this community and I ask that you dismiss the Little River Off-Channel proposal from the 2016 plan and future plans. Thank you for your consideration in this request. If you have any further questions, please do not hesitate to contact me at bob-knight@tamu.edu, 979-324-6980

Sincerely,



Robert W. Knight, PhD
Certified Professional Soil Scientist
Certified Professional in Range Management

July 10, 2015

Region G Board Members
4600 Cobbs Drive
Waco, Texas 76710

Dear Board Members:

My family has owned our property in Gause, Texas since 1882, purchased by my great grandfather Mardise Blakely, photo attached. It has always been our intention to carry on that heritage for many generations to come. Now we find that Region G has totally different plans for my family's treasure. This is wrong on so many levels, the foremost being taking this land from my family to destroy because of inadequate planning by the State of Texas.

Beyond my personal concern regarding the loss of our property, you need to know that the location for this project is unacceptable because of the geographical make-up of the area (level after level of sand and on top of a major aquifer intake zone) as well as the loss of a historic cemetery, and intrusion into a national historic trail.

I respectfully suggest you consider installing a pipeline to Williamson County and find a location locally to build a reservoir as an alternative.

Best regards,

Judy Marks
Gause, Texas

5183 Hwy 119 N
Yorktown, TX 78164

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

I am writing this letter to express my opposition to the proposed Little River Off-Channel Reservoir in Milam County. Our family, along with many other families, is at stake of losing so much if this reservoir is approved! My parents, who are well into their retirement years now, have worked tirelessly their entire adult lives to pay for and maintain the 600 plus acres that they lovingly call home. Their property is not just that, property, it is their life. It is also life and a future for both my sister and I and our families. You see, we look forward to living there and calling it home one day, as well.

As I think, with sorrow in my heart, about the possibility of losing it all to your proposed reservoir that will supply water to another county I want to share with you what I am afraid will be my lasts.....

As I turn off of FM 2095 onto their driveway I ask myself if this will be the last time my children and I come home to visit? Will it be the last time I drive across their property and approach my childhood home? Will it be the last time I have that warm feeling of love and acceptance that you can only get from that special place where you grew up?

When I open the door to my parents' home of 33 years I wonder if it will be the last time I see them there? Will I no longer see them preparing meals here for their family, will our Christmas and Thanksgiving memories end soon, will our happy moments all be flooded? Will their home be destroyed and we have to relocate them to another place that really isn't their home?

As I see my children splash in Pin Oak Creek I wonder if it will be the last time they get to enjoy this little piece of heaven. Will it be the last time they get to fish here with their grandfather? This beautiful little creek has been a place to teach cousins to swim, a fun place for friends and family to cool off, a source of water for our cattle. How sad to see it gone!

When I see my elderly father drive his tractor across his beautiful hay patches I think of the endless hours he has spent improving his property and harvesting the grasses for his cattle. I wonder if it will be the last time I see him making hay, the last time I smell the fresh cut grass, the last time I see that old John Deere puttering across the pastures?

I also look to my grandparents' and great grandparents' homes and property that sits less than a mile down the road and is also included in the reservoir proposal. My mother worked tirelessly to get the designation for their property in the Texas Land Heritage Program. It has been in our family and in continuous agricultural operation for over one hundred years! What an honor! This lovely property will also be lost to a useless reservoir! It's as if one hundred years went to waste. It was all for nothing!

As I journey over to Pin Oak Cemetery that sits amidst our property I am overwhelmed with the history that sprawls in front of me. Many graves sit clustered together and oh the stories they have to tell. Children that lost their lives

J and J Wise Ranch

2265 CR 343

Milam County, Texas

I purchased this ranch property from a family member in 1995. The Wise family has maintained farming and ranching activities on this property for over 100 years. From the very start, my primary objective was to be a good steward of the land while while making improvements that would have long lasting effect on the long-term viability of a profitable beef cattle ranch.

For 20 years I have taken off the ranch income and invested in ranch facilities that would be needed for the long term. This includes many things among which are the following:

1. Deep water well with water distribution systems for the cattle
2. New fences throughout including all cross-fences
3. Steel pipe corral with working pens for over 100 cattle
4. Establishment of improved coastal Bermuda hay meadows (120 acres)
5. Establishment of improved pastures throughout the ranch
6. Improved gravel based roads
7. Application of poultry litter all around for long term lasting fertility
8. Additional stock tanks
9. Brush and weed control

All the above work adds up to over $200,000 out of pocket expenses.

Jerald Wise
Joan L. Wise

7-23-15
7-23-15

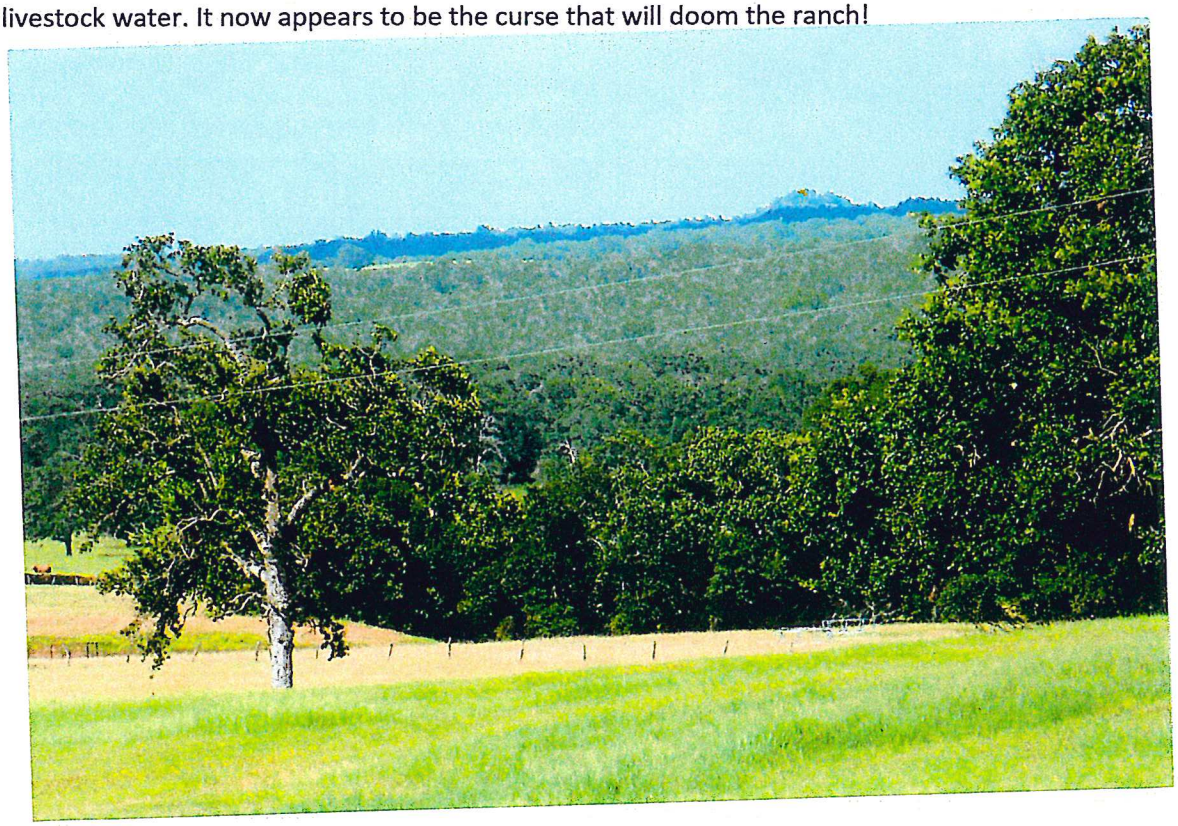
1)

The coastal bermudagrass hay meadows have always provided enough hay for the cattle to make it through the harsh winter.

Red Brangus cattle graze in the future Little River Off Channel Reservoir.

This is the pond where my father took all his grandkids to fish. This is also the place where I have taken all of my grandchildren to catch their first fish. The only problem is that the water level goes down so fast due to the sandy bottom

This is the overlook to a beautiful Pin Oak Creek bottom with it's lush green pasture and fresh livestock water. It now appears to be the curse that will doom the ranch!



A deep water well with a water distribution system provides a clean and fresh source of livestock water.

For the last 20 years, approximately $1500 per year has been spent on gravel in order to establish an all-weather road base on the deep sand soil.

After years of a wire fence low budget corral, with frequent escaped cattle, a steel pipe corral with working pens are built. There have been no escapes in six years with this new corral.

After 100 years with no shed for winter protection for the cattle, a shelter is added.

Wall Property History

by: Melvin F. Wall
2976 CR 343
Gause, TX 77857
ph. 979-279-6112

This property was originally bought by my great father, George Wall in 1914 for the original 177 acres; later he bought 132 acres to add to the Wall property. at my grandfather's death the property was passed down to my father and his brothers, Art Wall, Lee Wall, Harry Wall and my father Frank Wall for the next 2 generations. Frank wall purchased the property from his brothers keeping the property all together. At the death of my father and mother, Frank and Blanche Wall, it was passed to me, Melvin F. Wall. I use the land principally as pasture land for my cattle. I have set up deeds passing this property to my children, Carl David Wall; Madaline Wall Morse, Frank Lewis Wall, and Michael Heath Wall. Two of my children have built homes here (Michael Heath Wall and Madaline Wall Morse), and the other two children plan to build eventually.

This property is fed by the watershed of three creeks, Beaver Creek, Yellow Rabbit Creek, and Pin Oak Creek. Beaver Creek and Pin Oak Creek are spring fed. There are also a number of springs on the property feeding 3 areas of wetlands on the property.

All of the property is native timberland and pasture land. My father, George Wall truck farmed part of it, raising mostly tomatoes and peanuts to sell; and pastured cattle and domestic hogs on the remainder of the property. I have cattle pastured here.

The creek bottom has a large number of pin oak trees and sycamore trees; some of which are over 100 years old and stand over 100 feet tall. I use this property as pasture land for my cattle. If the proposed reservoir is

To Whom it may concern:

My name is Frank Louis Wall II; I was named for my Grandfather, Frank Louis Wall I. I am the third child born to Melvin and Loretta Wall. I grew up on the Wall Ranch, which is in the area of the proposed Little River Off-Channel Reservoir.

A little back history that I would like to share. My Great Grandfather bought this property for a place to settle down on. They had been living on the road in tents as they operated a Road Construction Firm. This is the property that they lived on until they passed away. After my Great Grandfather, George Wall's death, my Grandfather, Frank Louis Wall I ended up having to pay off some debts accrued his father, and also had to buy out all his siblings stakes in the property. This is was done by a lot of blood, sweat, and tears. He did this to provide for his family.

So as you can see this property has been in my family for five generations. Due to the efforts and forward thinking of the man I was named after, I would like to share the legacy with my child and future children; but is the reservoir goes through that will not happen.

Best Regards,

Frank Louis Wall II
Irma Andrea Wall
Maria Elizabeth Wall

Wall Family Creek Bottom

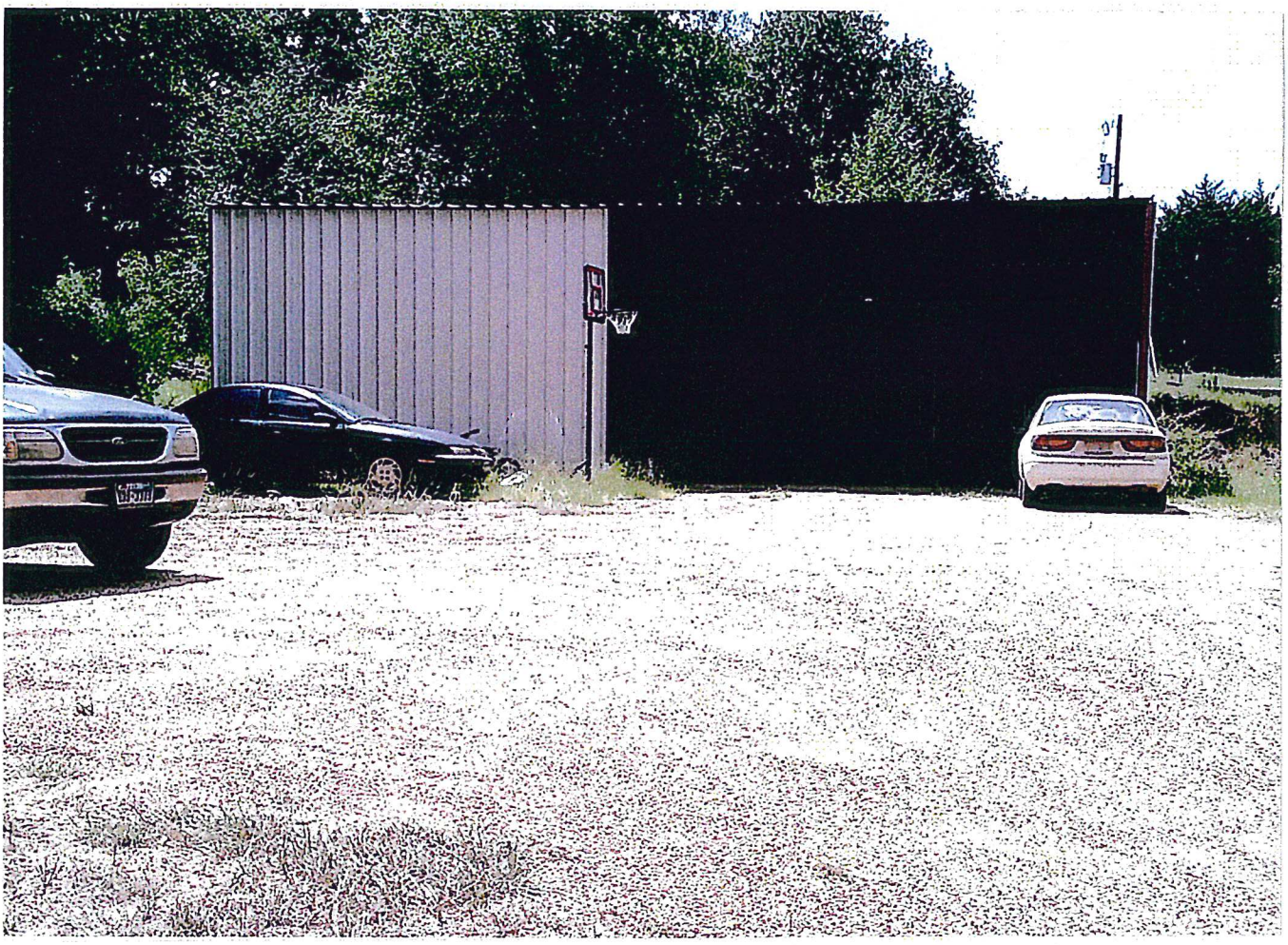
Wall Family Creek Bottom

Light of Christ Ministries Headquarters & Wall Home Place

Melvin & Loretta Wall Family Residence

Michael & Stacey Wall Family Residence

Michael & Stacey Wall



Wednesday, July 8, 2015

To Members of this Water Planning Group:

My wife, two children, and I have spent the last 17 years working for Dry Gulch U.S.A., a premier summer kids-camp and retreat center, founded by Willie George, Senior Pastor of Church on the Move in Tulsa, Oklahoma. Although we have spent much of our life together here in Oklahoma, our dream is to return to my home in Milam County Texas. Our hope is to apply what we have learned to continue the ministry that began nearly 10 years ago by my father on a beautiful 320-acre ranch. Our family's vision is to minister peace, encouragement, and spiritual refreshing to other ministers, missionaries, and local church groups. My father, Melvin Wall, has spent his entire life building and protecting this God-given ministerial call, which has roots connecting to when my grandparents began their life there in the 1930s. I fully intend to carry on this work in the very near future. We are currently making plans to build our retirement home there. Even my fourteen-year-old son, who believes he will be a pastor in Milam County, dreams of living on the ranch. Therefore, I respectfully ask the members of the Brazos G Water Planning Group, Region H Water Planning Group, and the Texas Water Development Board to renounce plans to construct an "Off-Channel Reservoir" that would flood our entire 320-acre ministry and home.

Upon investigation of this plan, our family considered both the cost and the benefits this reservoir would have. We understand the need for water for a growing population is a demand which must be met. To address such a need is very costly and is becoming more urgent as time goes on. However, the cost of this reservoir would be so astronomical the price tag alone requires reconsideration. Where would we find another historically significant 320-acre ranch with a spring-fed tank, free-roaming wildlife, and numerous facilities and homes designed to bless people? The most generous compensation could NEVER replace land like this; it would NEVER make up the heritage lost. The thought of never seeing the wetlands where I played or the peat bog where I hunted is detrimental! It is heartbreaking to even think that the only remnants of my home would be a family display case filled with ancient Native American artifacts that I personally had found over the years. All this forever lost to a future population in Williamson County to have drinking water. Yes, this need must be met, but will a costly 4,300 acre off-channel reservoir be the answer? We know that this land has a high content of sand which allows water to drain quickly into the ground. Furthermore, the average yearly rainfall would never be enough to adequately supply the necessary water pumped into this reservoir. The end result would be the stench of a swampy mess that destroys unique ecosystems while never meeting the water needs of those in Williamson County.

Our prayer is that not only will this plan be stopped so that our home, our neighbors' homes, and important ecosystems are saved, but that a better solution be found that will meet the demands for water without destroying the native heritage or the dreams of the people of Texas.

Sincerely,

Carl Wall

Stephanie Wall

BAUMANN

10530 FM 2095 | Gause, Texas 77845 | 979.279.3284 | aggieparents@alpha1.net

August 15, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

We are writing this letter to **oppose** the Little River Off-Channel Reservoir proposal highlighted in the Initially Prepared 2016 Brazos G Regional Water Plan. We are retired K-12 educators with over 91 years in education. Elaine still works part-time in education. Our land is 4 miles west of Gause on Pin Oak Creek and with frontage on FM 2095. Alligator creek is also on our property. We own 585 acres of which 550 acres will be flooded. We purchased this property over a period of 35 years to supplement our retirement and as an estate for our two daughters and our five grandchildren.

This property is a cattle ranch with over 100 cows, 100 acres of hay fields, and enough improved pasture to support the cattle operations. Furthermore, this property was purchased to supplement our income and our children and grandchildren's future, not as a speculative investment.

We are fortunate to own property on Pin Oak creek. This was good farmland in the past. Today it is in improved coastal fields for a cattle ranch. We also have several Indian camp areas with many artifacts. Two acres of this property was set aside as a cemetery, which has been recognized as a Texas Historic Cemetery.

We are against this proposed reservoir because of the following:

- According to newspapers reports, it will have a total cost of over $400 million
- It will destroy all of our pastures and over 200 acres of woods and some pecan trees
- Destroy a Texas Historical Cemetery with over 130+ graves and many more that are unmarked

Private land should **NEVER** be an option! Numerous other solutions that should be employed are practical conservation such as xeriscaping lawns, requiring all homes to have 1 ½ gallon flush commodes, remove swimming pools, reuse treated sewage water and brackish water to create more useable water, build desalinization plants to treat sea water and build a pipeline from the Gulf of Mexico to areas that need the water. Building reservoirs will create a band-aid on the issue. I encourage you to be more forward thinking and invest money in sustainable solutions that do not damage land and take away private property.

My family and members of this community ask that you dismiss the Little River Off-Channel Reservoir proposal from the 2016 plan and future plans. Thank you for your consideration in this request. If you have any further questions, please do not hesitate to contact me at 979-279-3284.

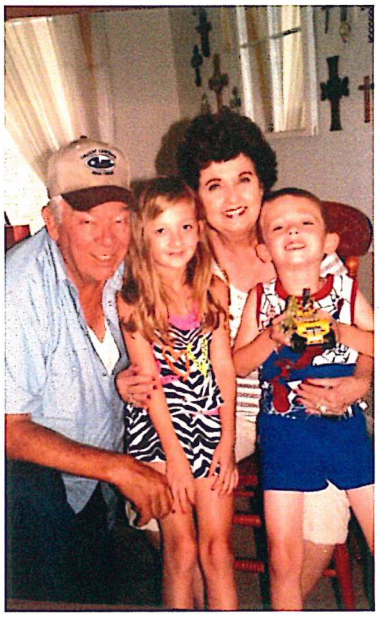
Sincerely,

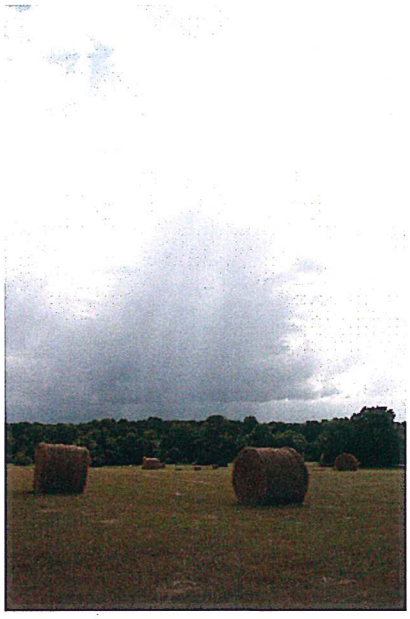
Eugene & Elaine Baumann

Eugene & Elaine Baumann

Baumann Family

Stop Little River Off-Channel Reservoir Campaign





Gene Baumann, Serving his famous brisket at local fundraiser

Baumann grandchildren who are the 5th generation on our land

Watson Hubert Shafer — Former Commissioner Agriculture Todd Staples — Elaine Shafer Baumann

My children and My brother's children

Melisse Shehane — Kim Hahn — William Shafer — Philip Shafer — Frank Shafer — Deborah Russell

SHAFER FARMS

10320 FM 2095 | Gause, Texas 77845 | 979.279.2697

August 15, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

My brother, Watson Hubert Shafer, and I were born in Milam County. Five generations of our family have lived in the Pin Oak community and owned and farmed land there for over one hundred years. OUR LAND has been our livelihood.

Education was an important factor to our parents. They always stressed the desire for my brother and me to attend college. My brother gradated from high school when he was sixteen; then, he helped Daddy farm OUR LAND for one year before he started to college. He hitchhiked to Southwest Texas State and completed his Bachelor's degree, then he hitchhiked to Texas A&I where he completed his Master's Degree. Each summer OUR LAND came into play again, because my brother would tend a tomato crop that Daddy started for him in the spring and earn money to go back to college in the fall. My brother was the first Shafer to earn a college degree. I also earned a college degree at SWT to become an educator. Through all of our struggles one thing that we had was the knowledge that OUR LAND was always there.

My two children, and my brother's four children have also earned college degrees. We attribute so much of this to OUR LAND and what it has enabled us to do as a family. There are many residents here who have similar stories about their property. The land and the beautiful creeks that are on this property, ultimately belong to God. We have been good stewards of the land, and we will answer to God for that stewardship.

The proposed LROCR will take property from citizens who have owned land that has been handed down from generation to generation, for one hundred years or more, destroy the ecology of our woodlands, inundate historical property, devastate lives and livelihood, and leave a destructive psychological impact on those affected. Do not take our property! Please remove this proposal from your plan. If you have any further questions, please do not hesitate to contact me at 979-279-3284.

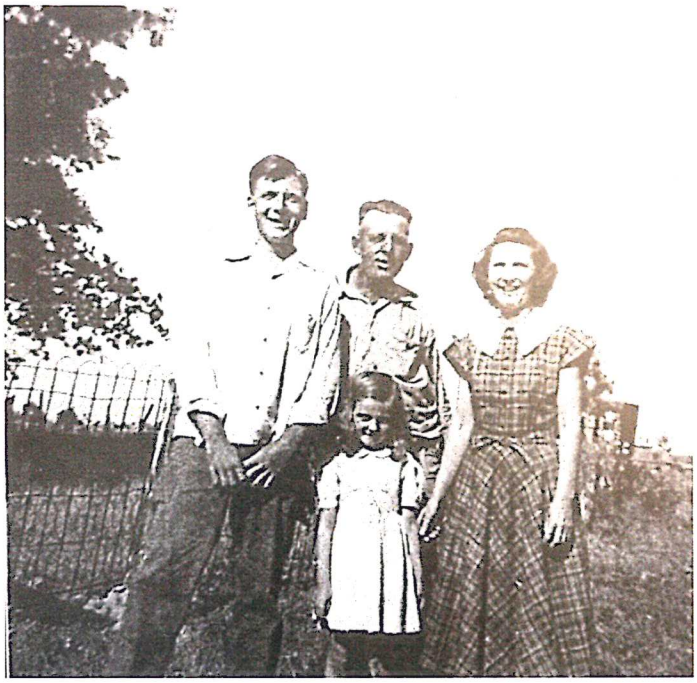
Sincerely,

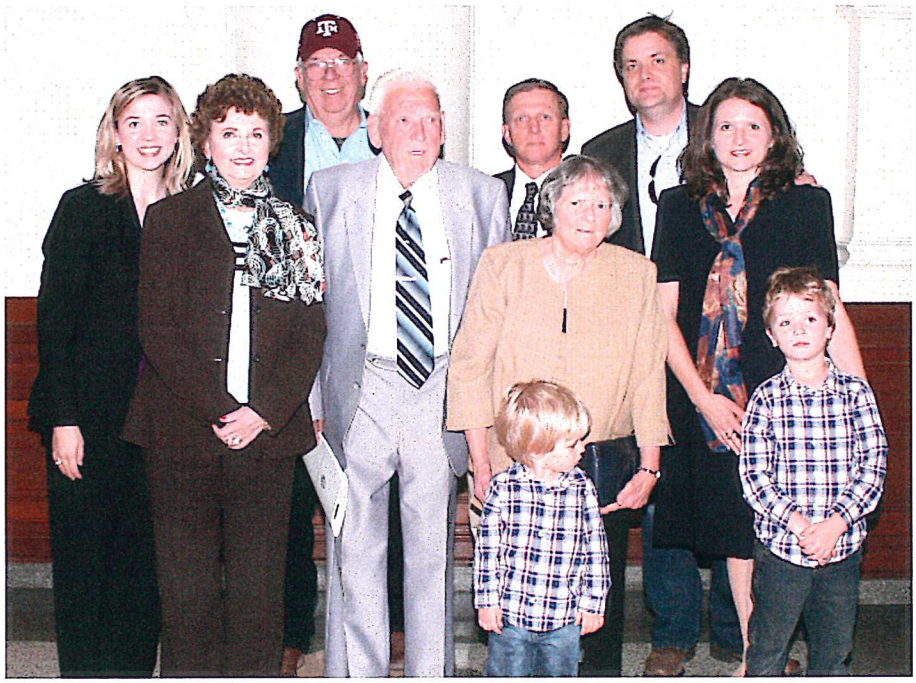
Elaine Shafer Baumann

Elaine Shafer Baumann
Watson Hubert & Opal Shafer

Shafer Farms

Family Land Heritage Program
Recognizing 100 Years of Agriculture





5 Generations of Shafers

Texas Historic Farm
Certified by the Family Land Heritage Program for being maintained in continuous agricultural operation by the same family for 100 years.
DEPARTMENT OF AGRICULTURE • TEXAS •
Certified by the Commissioner
Texas Department of Agriculture

Deborah Russell
20310 Mammoth Falls Drive
Tomball, Texas 77375

August 17, 2015

Mr. Trey Buzbee, Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Mr. Buzbee:

Please allow me to introduce myself. My name is Deborah Shafer Russell. I am a proud 4th generation Texan. My family property in Milam County was recognized in 2011 by the Texas Land Heritage Program for 100 years of continuous farm operation.

The majority of my family has spent their lives in two very important vocations, agriculture and education. The values of both were instilled in me from an early age. My husband and I are both educators and proud Texans and we share a love for the history of our great state. When I learned our family was to be honored by the Texas Land Heritage program it was very important to both of us that our two young sons be present at the ceremony. Generations before them labored to provide a better life for their family and we were so happy that they could be present as those sacrifices and the persistence of their ancestors was recognized. One day we hope that they will look back on that day with great pride.

I never dreamed that just a few short years later there would be a possibility that our family land and the land of over 40 landowners near us would be considered as a possible site for a reservoir. How heartbreaking and infuriating to think that it might all be covered in water. Even more upsetting than the loss of the land is the thought that the graves of my family members will have to be exhumed. It was my belief that graves in a cemetery recognized by the Texas Historical Commission would be prohibited from being disturbed.

While I would never claim to be an expert on water, I would like to respectfully ask you and the Brazos G Water Planning Group if all other possible solutions to the water shortage have been considered. Have conservation efforts been pursued? If the reservoir were constructed how would it impact the aquifer and existing wells in the area?

My heart goes out to the people of Williamson County. My first cousins are residents of Georgetown and my father-in-law is the former City Manager of that city. My husband grew up in Georgetown and we have friends and relatives throughout Williamson and adjoining counties. It is my understanding that the cost of this plan will require a 45% increase in water costs for the citizens of the county. That type of increase would be hard on my family budget. Is this really the most cost-effective solution?

I'm sure that you would agree with me that the sacrifice of our unique Texas culture is not a matter to be entered into without exploring every possible option and it is my hope that an alternative that is better for all involved can be found.

Sincerely,
Deborah Russell
Jerrod Russell
Graham Russell
Sean Russell

Frank A. Shafer
P.O. Box 42
Franklin, Texas 77856
August 15, 2015

To Whom It May Concern:

My name is Frank Shafer and I am writing this letter in opposition to the Little River Off Channel Reservoir. The reasons for my opposition are numerous.

If completed this reservoir would take land that has been in continuous agricultural production by my family for over 100 years. This property was purchased by my great-grandfather, John Frank Shafer, Sr., in 1908. My father, Watson H. Shafer, and my aunt, Elaine S. Baumann, currently have a cattle operation on this property. My family has been recognized by the Texas Land Heritage Association for continuous agricultural production on this land for over 100 years.

If completed this reservoir would flood parts of the nationally recognized El Camino Real and the historic Pin Oak Cemetery. Many generations of my relatives are buried in this cemetery dating back to the mid 1800's. The most recent are my grandparents, John Frank Shafer, Jr. and Ruby L. Shafer.

In addition to the emotional issues associated with this reservoir, I do not feel that this project is economical. The sandy type soils in the area are not conducive to holding water. There would also be a loss of tax revenue for the Gause I.S.D. and the Milano I.S.D.

For these reasons I respectfully ask that you permanently remove the Little River Off Channel Reservoir from your plans.

Sincerely,

Frank A. Shafer
Philip Shafer
William Shafer

Board Members of Brazos G and H:

We are Don & Lynn Hagan, native Texans who, after a lifetime of living abroad, have decided to make Milam County our retirement home. In 2001, we purchased 50 acres in the 22 Hills area and in 2012, built a custom home, reflecting our native Texan heritage.

With the plan for the Little River OCR, over 30% of this land will be inundated, leaving us a small island of land, which undoubtedly will be condemned. The planned reservoir will flood parts of El Camino Real National Trail, Pin Oak Cemetery that dates back to the early 1800's, Native American campsites, and other historical areas.

The viability of this project is in question. Approximately 45% off the proposed area is Carrizo-Wilcox outcrop and will not hold water. We have, unsuccessfully, attempted to have tanks and small ponds on our land, only to find that the water only replenishes the reservoir, leaving us with no surface water. According to the current plan, the holding reservoir will fill during times of high flow of the Brazos River via a 12' diameter pipeline and then lay a pipe line to Williamson County for use in municipalities. How will this reservoir be any different from our ponds, only releasing water into the existing aquifer?

The loss of tax revenue will cripple the local tax base and destroy local school systems reliant upon such taxes and put an undue burden on the entire county, which is already under serious financial stress. Surely there are more viable economic options to solve current and future water needs. Perhaps better planning on the front end for the communities in Williamson County is in order. Such conservation efforts might include enforced water use limits, rainwater collection and retention, hardy native grass landscaping, limits on the construction of golf courses, and other responsible water use conservation initiatives. Front-end planning is always more cost effective than trying to solve problems on the back end.

We ask that Brazos G and H and permanently remove the Little River OCR from all future plans and look at the broader picture of conservation – economic, historical, archeological, and geological.

We thank you for your kind consideration on this matter in the hope that we will be able to retain our property for our family's future generations.

Don & Lynn Hagan

Hagan Ranch
Box 205
Gause, Texas 77857
979-353-1231
Haganranch.weebly.com
Facebook.com/HaganRanch

Amanda and John Sulzbach
2112 Level Oak Pl
The Woodlands, TX 77380

August 14, 2015

Gary Westbrook
P. O. Box 92
Milano Texas 76556

Dear Gary Westbrook,

I am writing you in opposition of the proposed Little River Off-Channel Reservoir Plan that will not only impact the lives of various people in the area, but that will also impact the lives of my family and our legacy. My family owns about 300 acres in Gause, TX, which has been in my family for several generations. If the Little River Off-Channel Reservoir is approved, all but about 20 acres of my heritage would be underwater and the remaining land would no longer be accessible.

For as long as I can remember, our family farm has always been the gathering place for our immediate and extended family. As a child who grew up close to a major city, I always enjoyed visits to our family farm, but I never truly understood the beauty of the land or the roots of the community until I was an adult. In my youth, my impression of my family's land was always indifferent and at times, conflicting. I scoffed at unpaved roads and dodging cow patties in my sandals. As the old saying goes, we get wiser as we grow older. I remember the first time I looked up at the sky as an adult and said here are the stars that I have been missing. I remember the first time I looked out at our land and thought "It really can't get more beautiful than this". I hope to continue to carry on our family traditions for years to come on our family's land.

It wasn't until I attended the Brazos G's Public Hearing on June 23rd that I truly comprehended the full impact of the Reservoir plan. Not only is my family personally affected but so are the livelihoods of many other families within the Milam County community. From agriculture to real estate, the economic repercussions alone could displace many hardworking Texans in Milam County. However, the most tragic impact will be to the historical landmarks in the area.

Pin Oak Cemetery, a resting place for my ancestors and deemed historic by the Texas Historical Commission, will cease to exist. If the Little River Off-Channel Reservoir passes, Confederate soldiers and loved ones will be uprooted from their final resting place.

The loss of the El Camino Real de los Tejas National Historic Trail will diminish our history. The purpose of the El Camino Real de los Tejas was to connect Mexico City to Los Adaes, Tejas, which at the time was the capital of the northeastern frontier of New Spain. This trail would later be followed by the father of Texas, Stephen Fuller Austin. Milam County is located on what is commonly referred to as the 1691 trail which ran from the Detmold area to Apache Pass. The Little River Off-Channel Reservoir will destroy the cultural significance of this trail by spoiling a portion of it that looks much as it did in 1691.

As a concerned citizen, a Milam County land-owner, and a future resident of Milam County; I strongly urge you to oppose the Little River Off-Channel Reservoir.

Sincerely,

Amanda and John Sulzbach

June 22, 2015

Mr Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

I am writing this letter to **oppose** the Little River Off-Channel Reservoir proposal highlighted in the Initially Prepared 2016 Brazos G Regional Water Plan.

We are James and Mary Waldson and own a 248 acre tract of land bordered on the northwest by Pin Oak Creek, FM 2095 on the southwest and the Little River on the north. This is a family ranch and is enjoyed by ourselves, our children and grandchildren for hiking, hunting, exploring and enjoying the wildlife. We have owned our ranch since 2007 and have managed it for wildlife since the purchase. Pin Oak Creek is a pristine riparian area and ran with water throughout the drought of 2011. With the damming of this creek, habitat for multiple species of plant and animal life will be destroyed. We have spent countless hours and significant monies enhancing habitat on this ranch to benefit wildlife.

In 2011 we entered into a program with Texas Parks and Wildlife, The U.S Fish and Wildlife Service and The Native Prairie Association of Texas seeding 35 acres with native prairie grasses to enhance the habitat for wildlife. In 2014 we partnered with Texas Parks and Wildlife and The U.S Fish and Wildlife Service in a brush mulching program to enhance Houston Toad habitat. Our ranch has numerous Native American campsites and the construction of this reservoir will result in the permanent loss of these cultural treasures.

In addition to our ranch, we own 2 parcels of land in the 22 Hills Subdivision totaling nearly 30 acres, one of which is our homestead. The construction of this reservoir will cover parts of both these properties and devalue the remainder. If the reservoir construction is postponed indefinitely, due to disclosure laws the property may be completely unsalable.

Hopefully the residents of Williamson County can implement immediate conservation measures or identify other sources to solve their need for water, rather than destroying the hopes and dreams of residents of Milam County.

We are petitioning the Brazos G voting members to abandon plans for the Little River Off- Channel Reservoir from the 2016 plan and future plans. Thank You for your consideration in this request. If you have any further questions please feel free to contact us.

Sincerely,

James and Mary Waldson
James: 979-204-5231 jam432@gmail.com
Mary: 979-204-5230 mcwalsdon@gmail.com

Mr. Trey Buzbee, Administrator, Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710
July 22, 2015

Dear Sir,

I am writing in reference to the Little River Off-Channel Reservoir proposed for Gause, Texas. It is my understanding that one of the reasons for choosing the Gause area is due to the lack of population growth. The Gause area has little (to no) population growth because the properties in the Gause area have been owned by the same families for several generations; have been handed down to family members, and is NOT for sale. The families that live in the Gause area CHOOSE to do so because it is "home". They have dug wells, (literally) by the sweat of their brows, to provide water for their families and livestock. They conserve water to assure there is plenty in supply. They are devoted to their families, their land and homes, and to the community. One of the reasons the forefathers chose the area is due to its proximity to the Brazos River. It provided their families, and current families with necessary water. They also chose to settle in the Gause area because of the lush, fertile soil and rolling hills.

The citizens of (over populated) Williamson County CHOSE to live in an over populated area. They moved to the Hutto, Round Rock, and Pflugerville area from other states, or other areas in Texas. They have NO "roots" to Williamson County. Their children do not have "roots" to the area. It is not their "home" and it was not their parent's "home". They are not devoted. They simply "reside" in an over populated area. Their idea of obtaining water comes from turning a faucet handle. Their definition of "conserving water" is not watering their lawns, or washing their cars for a week.

I understand you have a job to do. I understand somebody will be upset and angry by your final decision. I also understand that you must choose to do what is RIGHT and BEST for EVERYONE involved. Taking homes and land from landowners is NOT the right thing to do. Destroying lives and communities is NOT the right thing to do. Destroying artifacts is NOT the right thing to do. MOVING a cemetery, a resting place for Civil War soldiers, is NOT the right thing to do. Destroying wildlife and its habitat is NOT the right thing to do. Uprooting families (devoted to their land) to provide water for another community of non-committal citizens is NOT the right thing to do. Building a reservoir in an area which provides NO benefits to that community, ultimately closing and destroying a school is NOT the right thing to do.

I do not expect you to be compassionate. However, I do expect you to have integrity and do what is right for EVERYONE. Please take into consideration ALL lives involved. Your decision will FOREVER alter GOD'S creation and destroy the history created by generations of families that have called Gause, Texas home since the 1800's. Your decision will FOREVER alter lives, families and communities that depend on the Brazos River to sustain their lives.

You have a huge burden to bear. Do the right thing.

Respectfully,

Patsy Alford
501 Cox Hollow Rd
Gause, Texas 77857

HAVE INTEGRITY. DO THE RIGHT THING.

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR
stop.little.river.ocr@gmail.com

June 11, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

I am writing this letter to **oppose** the Little River Off-Channel Reservoir proposal highlighted in the Initially Prepared 2016 Brazos G Regional Water Plan.

In 1978, having grown up near Cameron, I first had the desire to live in this immediate area. 21 years later I was able to purchase this property (73+ acres) as a place for retirement. Having completed the first phase of improvements, my wife and I moved here permanently in 2000.

Since the land was purchased in 1999, we have built our personal custom home and a large barn with living quarters. We also have moved a mobile home on the property in which we moved my mother so that she would be close to us in her aging years. One of our dear friends also lives on the property and is a place for him to retire also.

When we purchased the property it was 100% wooded. Since then we have spent many thousands of dollars clearing and improving the land. We have been very careful not to disturb areas of the property that have features that are undoubtedly habitat for unique, and in some cases, endangered species of animals, birds, vegetation and reptiles. We also intentionally developed habitat for wildflowers, butterflies, various bird species, as well as a variety of animals. For example, when we moved here, there was not a rabbit to be seen. Now, just in the past couple of years, they have made a very strong comeback. Our land is also heavily utilized by many species of nesting birds including Hawks, Owls, Pileated Woodpeckers, and many, many others.

My wife and I have invested all of our time and money in our property and feel it is quite unfair to take our and our neighbor's land for the benefit urbanized areas. We have improved this property for our enjoyment, and that of our children and grandchildren.

Beside the effects on our personal land, overall, the proposed area of the lake would destroy many historical and ecological resources. I have been allowed access to most of the effected area, and have taken a particular interest in these unique features and have studied this land intensively from a historic standpoint, as have many of the landowners affected. If adequate professional studies are performed, I see no way that this project could be possibly be approved due to the archeological and ecological impact it would have.

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR

stop.little.river.ocr@gmail.com

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR

stop.little.river.ocr@gmail.com

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR

stop.little.river.ocr@gmail.com

Texas State Senator Charles Shwertner
POBox 12068
Austin, Texas 78711

RE: Little River Off-Channel Reservoir

Dear Senator Schwertner:

As a member of your district and as a resident of Gause, I would like to express my objections to the Little River Off-Channel Reservoir that is currently in the Texas Water Plan. I understand that you have already done some work to try and have this removed from the plan and I would like to encourage you to continue with your efforts.

I think the reservoir would have a negative impact on our community and the surrounding area. A great deal of natural beauty would be lost as well as historic areas. These areas include cemeteries of original settlers and Native American campsites and village sites. The road leading most directly to Cameron would be lost. Many residents use this road to go to work and to tend to business in our county seat. Many friends would lose land they and their families have worked hard to maintain and preserve. Homes would be destroyed along with a way of life. All this to create a project that may have questionable results.

I personally question the wisdom of completing a project of that magnitude and then depending on water flowing down the Brazos River to make it viable. The river is relatively low much of the year and has been consistently low in recent years. As I understand it, the water wouldn't be needed in other cities for a number of years into the future. By that time, cities upriver (such as Waco) may be retaining more water for their use and even less would be flowing through Milam County.

Please let me encourage you to speak up for other courses of action to be taken. Conservation of available water resources could relieve some of the projected shortage. Perhaps sites in other areas might be less objectionable if such a reservoir is needed at some point.

Thank you for your service to our district and thank you for your consideration of this letter.

Sincerely,

Kathy Turner
POBox 13
Gause, Texas 77857

V. V. Turner
POBox 406
Gause, Texas 77857

To the Administrators and Directors of Region H

I am submitting in writing to make you aware of our position in regard to the proposed Little River Reservoir/Beaver Creek in Milam County Texas. My family and neighbors are **opposed** to this idea. In no way will we support anyone who attempts to push this agenda. We are lifetime Milam county ranchers who have utilized our family land for necessary income for our very existence. This would be the demise of my families land and will not be accepted. In addition, the economical income for Milam County would suffer greatly. Tax revenues for our local schools would be devastated; farmers and ranchers would be in ruin. The Ecosystem ecology would be altered beyond recovery.

I do not understand how taking away land and homes from the folks that have lived here their entire lives could even be a consideration. You would be ordering those affected by this to just pick up and move. Where are we supposed to go? To one of the Regions that will be getting our water? We literally have hundreds of thousands of dollars invested in our homes, land, barns, cattle, fencing upkeep etc. What compensation would we get for our investments? Just land value and we have to eat the rest? That's tyranny, government takeover or simply put its just communism. Some that have not been life time residents of this area may have a slightly different opinion but the compensation for MY family's assets is not negotiable. **It is not for sale**. Not in my lifetime or my children's lifetime.
This land is not just acreage; it is HOME to legal, taxpaying Texans. There is a huge difference between a house and a home; I can assure you all that these structures are our HOMES. We are HOME!

The property that is being considered for this reservoir will cover over 4000 acres of the most beautiful land in Texas. That's right, **IN Texas!!** The gentle rolling hills with lush pasture land below are absolutely beautiful. From our home there is a 360 panoramic view, it is truly Texas hill country in Milam County Texas. Come see it and you too will agree that turning this land into a literal mud hole would be a travesty.
The article below shows that 50 days of releasing water back into the rivers? KMIL.com

TEXAS DROUGHT OVER ACCORDING TO BRAZOS RIVER AUTHORITY **2015-07-26**

(TEXAS) Perceived by some as second only in severity to the 1950s drought, the Texas drought that began in2010 is now over in most of the state, according to the Brazos River Authority.
The only part of the state that isn't free of drought is the northwestern corner of the Panhandle.
It took this year's spring and summer rains to eradicate it, though, with many areas of the state inundated by Flood waters. **By July 1, the Brazos River Authority had more than 50 consecutive days of water releases from Reservoirs.**

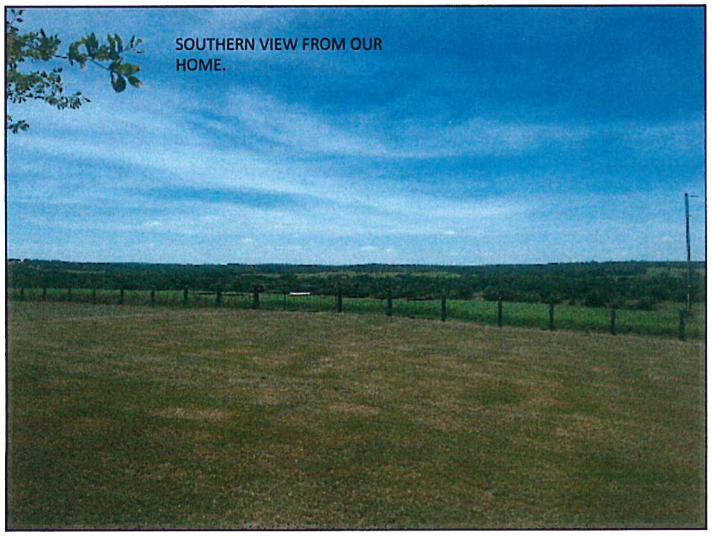
If this plan is enacted you would be responsible for destroying a heritage and culture that cannot be replaced. I would hope that you will consider and vote in a manner that will preserve Milam County from the devastation that **will** occur if implemented.
Thank You

Gary S. Kornegay

Gary Kornegay
Lisa Kornegay
Sara Kornegay
Scott Kornegay
979.229.7567
Garyk2700@gmail.com

GARY AND LISA KORNEGAY'S HOME

- God has truly blessed our family with such a beautiful place to call home. I think I know why God rested on the seventh day. I believe that it took the Lord a full day to sculpt the rolling hills and lush meadows that we are fortunate enough to call home. All of the area that is in this lake proposal is just as beautiful as what we own. Of course I am biased because this is our home.
- Home, to us is not just where you hang your hat, rather it is a place that you love in which sweat and blood has literally poured out of you to keep and preserve for future generations of family to utilize and enjoy. We cannot imagine being forced from this land. This has been in our family for over 100 years and cannot be replaced. The years of memories and good times spent with family is something that takes second place to nothing.
- Please take time to look at the photos. The majority of the scenic photos were taken just outside of our house, in addition all of the pastures in the pictures would be underwater if this plan is enacted.
- I am pleading with you to not take away what each one of us holds so dear, please!

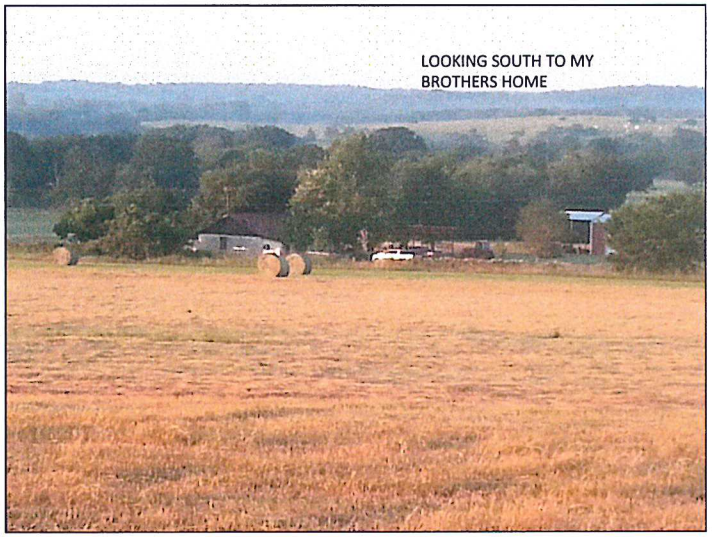


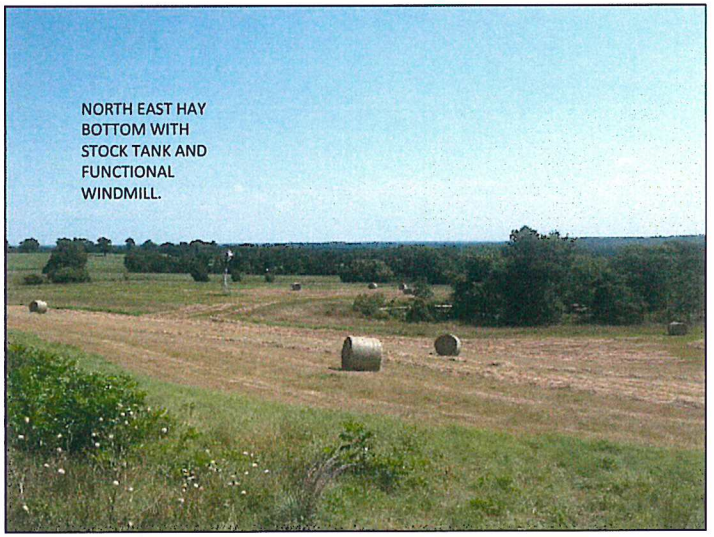
SOUTH EAST VIEW

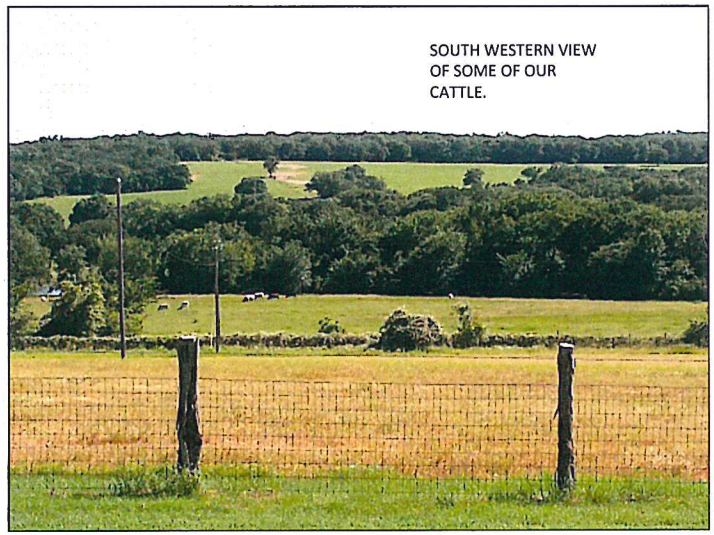
EASTERN VIEW

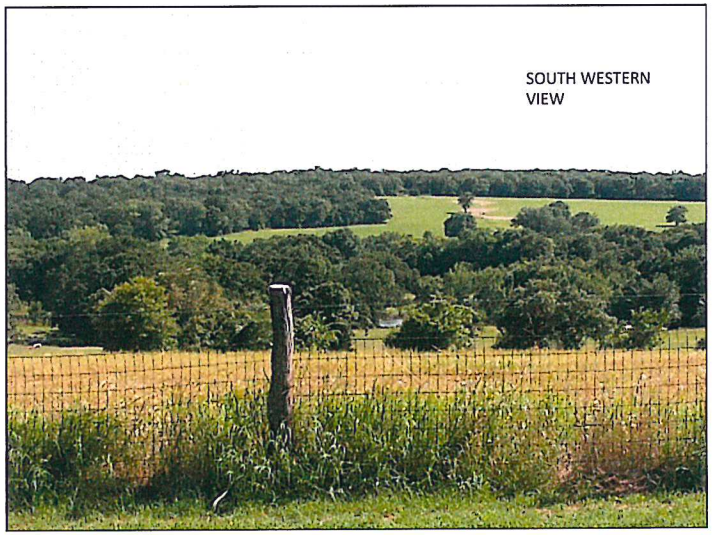
NORTH EAST VIEW

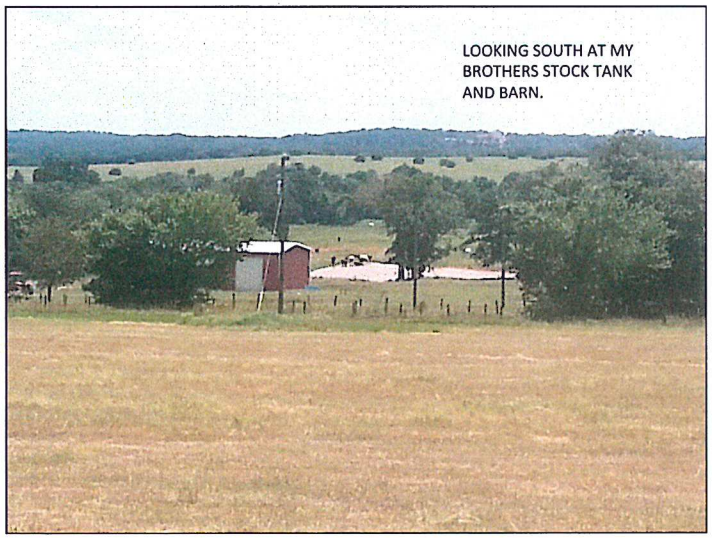
NORTH VIEW

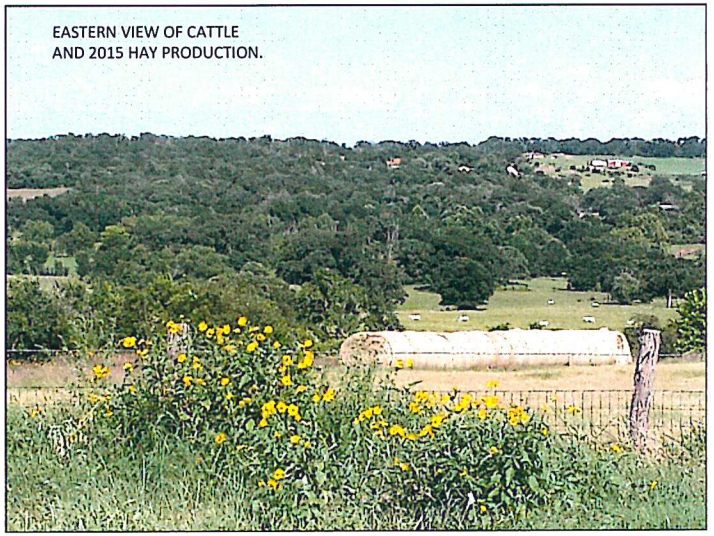

LOOKING SOUTH TO MY
BROTHERS HOME

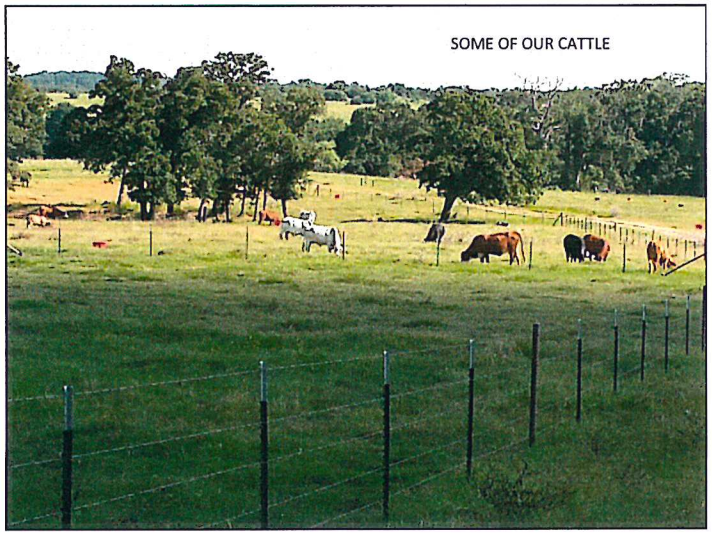

NORTH EAST HAY
BOTTOM WITH
STOCK TANK AND
FUNCTIONAL
WINDMILL.


SOUTH WESTERN VIEW
OF SOME OF OUR
CATTLE.

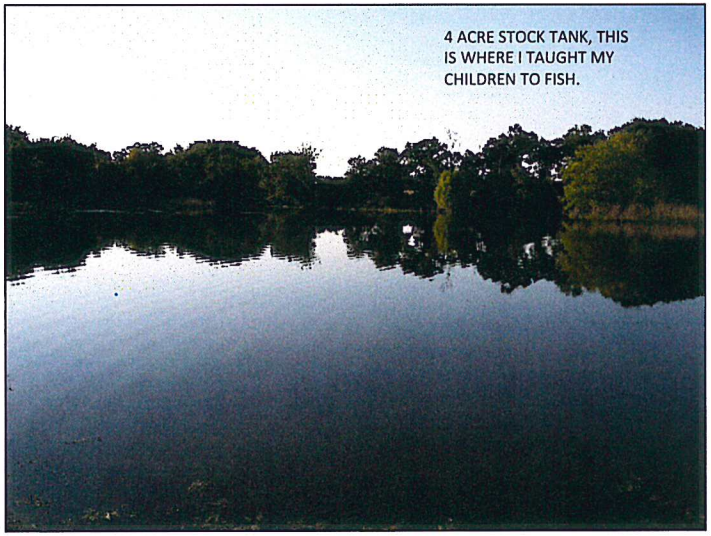

SOUTH WESTERN
VIEW


LOOKING SOUTH AT MY
BROTHERS STOCK TANK
AND BARN.


EASTERN VIEW OF CATTLE
AND 2015 HAY PRODUCTION.

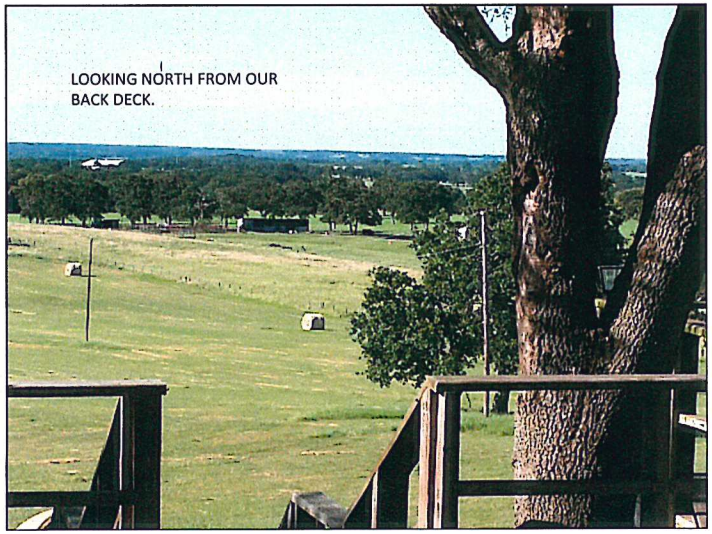

SOME OF OUR CATTLE

ANOTHER PIC
LOOKING
SOUTHWEST AT OUR
CATTLE

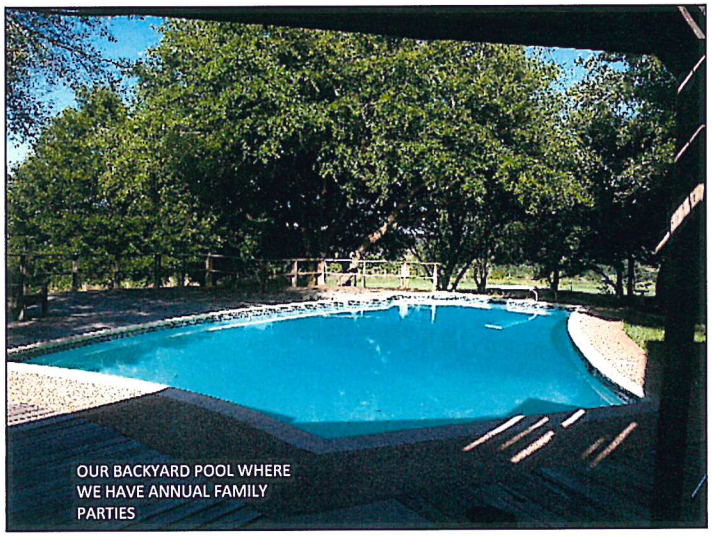


4 ACRE STOCK TANK, THIS IS WHERE I TAUGHT MY CHILDREN TO FISH.

INDIAN ARROW AND SPEARHEADS FOUND ON OUR PROPERTY.



LOOKING NORTH FROM OUR BACK DECK.



OUR BACKYARD POOL WHERE WE HAVE ANNUAL FAMILY PARTIES

Dear Board Members,

I am Mike Kornegay a 68 year old native Texan born in Cameron Texas August 13, 1947. My family has over 800 acres there will either be flooded or we will ingress and egress to what isn't flooded. 244 1/2 acres has been in the family for 130 years and is recognized by the state as a century old continuous farming and ranching operation. The rest has been in the family 75 years.

Our land is not in a 100 year flood plane and is fertile productive land that provides our living and more importantly our peace of mind.

My family is just one story of many century old Texas families that will be decimated if this comes to fruition. The lake will flood parts of Nationally recognized historic El Camino Real and Pin Oak Cemetery that dates back to the early 1800's. My Great Grandfather and Grandmother are buried there along with Civil War and Korean War Veterans and several of my friends Great relatives and is also recognized as an Historic Cemetery.

This project is not economical. 42% of the flooded area is Carrizo-Wilcox outcrop and will not hold water. The plan is to fill the lake during times of high flow of the Brazos River via a 12' diameter pipeline and then lay a pipe line to Williamson County for use in municipalities.

The loss of tax revenue will cripple Milano and Gause ISD's and put an undue burden on the entire county. Surely there are better and more economic options to solve the States future water needs.

We ask that you work with Brazos G and H and permanently remove the Little River OCR from this years plan and all future plans.

Thanks for your consideration.

Michael Wayne Kornegay

Trey BuzzBee 7/2015

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loose the right of ingress and egress. This property is our home and it is how we make our living. Taking our land and cattle out of production will cause overwhelming emotional and financial hardships, create a huge loss of tax revenue for the local school districts and will have a profound impact on local ag businesses for decades to come. This is my home, this is my life and this is where I plan to die.

I find it hard to believe that the same government that refused farmers aid in constructing stock tanks because they deemed it unsuitable to hold water, now want to build a 4400 acre mud hole on land that 42% of the soil is like or more porous than what was deemed unfit.

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

Sent MAY 6, 2015 To All Region G

From: Mike Kornegay <mikewaynek@aol.com>
To: Mike Kornegay <mikewaynek@aol.com>
Subject: Fwd: Little River OCR Milam County,Texas
Date: Tue, Jul 21, 2015 6:57 pm

Sent from my iPhone

Begin forwarded message:

From: Mike Kornegay < mikewaynek@aol.com>
Date: May 6, 2015 at 8:33:42 AM CDT
To: " wlwilson@tconline.net" < wlwilson@tconline.net>, " peek@thetexasfirm.com" < peek@thetexasfirm.com>, " cox@granbury.org" < cox@granbury.org>, " waterman.clx@gmail.com" < waterman.clx@gmail.com>, " dale.spurgin@co.jones.tx.us" < dale.spurgin@co.jones.tx.us>, " garylnewman@gmail.com" < garylnewman@gmail.com>, " spicer@luminant.com" < spicer@luminant.com>, " gwestbrook@posgcd.org" < gwestbrook@posgcd.org>, " Jim.Briggs@georgetown.org" < Jim.Briggs@georgetown.org>, " mtgcd1@centurylink.net" < mtgcd1@centurylink.net>, " mparker@vvm.com" < mparker@vvm.com>, " kgkinard@abeline.com" < kgkinard@abeline.com>, " ikweldon2@gmail.com" < ikweldon2@gmail.com>, "klwagner@@ ag.tamu.edu" <klwagner@@ ag.tamu.edu>, " mmcguire@rpgcd.org" < mmcguire@rpgcd.org>, " countyjudge@burlensoncounty.org" < countyjudge@burlensoncounty.org>, " pford@brazos.org" < pford@brazos.org>, " tim.brown@co.bell.tx.us" < tim.brown@co.bell.tx.us>, " tommy.obrien@abelinetx.com" < tommy.obrien@abelinetx.com>, " tfloyd@srcaccess.net" < tfloyd@srcaccess.net>, " zholland@bluebonnetgroundwater.org" < zholland@bluebonnetgroundwater.org>, " dale.adams@co.nolan.tx.us, trey.busbee@brazos.org" < dale.adams@co.nolan.tx.us>, " trey.busbee@brazos.org>" < trey.busbee@brazos.org>>
Subject: Little River OCR Milam County,Texas

To the directors and voting members of the BRA Region G

My family came to America in 1709, I am a 4th generation Texan. Is this my reward for being a law abiding , tax paying American? Terrorists , illegal aliens have more rights than I do.

I am notifying you in writing of my opposition to this proposed lake. As depicted , it will inundate my entire acreage and destroy several acres of pristine inland wetlands and numerous century old Oaks and Pecan trees. This is not acceptable, this is my heritage and I can't and want stand by and watch this destruction off this scared land so that you can water golf courses in Williamson County.

Most of the 4300 acres of planned destruction is sugar sand that drinks water like a sieve. Surely there are more economical and environmentally friendly solutions.

Every blade of costal Bermuda on this land , I planted over 50 years ago. I helped my father clear underbrush with a popping Johnny and a 5/8" chain. This land is not for sale at any price! This land provides my livelihood.

My next door neighbor has lived on Pin Oak Creek for over 70 years. His father helped build these county roads with mules and the iron ore came from my Grandfathers land. Two of his children live on that creek. One just built a new house. My uncle, brother, cousin and several childhood friends will be devastated by this project.

Please consider the lives you will ruin if you vote yes on this project.

Dear Board Members,

I am Mike Kornegay a 68 year old native Texan born in Cameron Texas August 13, 1947. My family has over 800 acres there will either be flooded or we will ingress and egress to what isn't flooded. 244 1/2 acres has been in the family for 130 years and is recognized by the state as a century old continuous farming and ranching operation. The rest has been in the family 75 years.

Our land is not in a 100 year flood plane and is fertile productive land that provides our living and more importantly our peace of mind.

My family is just one story of many century old Texas families that will be decimated if this comes to fruition. The lake will flood parts of Nationally recognized historic El Camino Real and Pin Oak Cemetery that dates back to the early 1800's. My Great Grandfather and Grandmother are buried there along with Civil War and Korean War Veterans and several of my friends Great relatives and is also recognized as an Historic Cemetery.

This project is not economical. 42% of the flooded area is Carrizo-Wilcox outcrop and will not hold water. The plan is to fill the lake during times of high flow of the Brazos River via a 12' diameter pipeline and then lay a pipe line to Williamson County for use in municipalities.

The loss of tax revenue will cripple Milano and Gause ISD's and put an undue burden on the entire county. Surely there are better and more economic options to solve the States future water needs.

We ask that you work with Brazos G and H and permanently remove the Little River OCR from this years plan and all future plans.

Thanks for your consideration.

Michael Wayne Kornegay

Michael W. Kornegay

Sent from my iPad
Mike
Kornegay

Sent 8/10/15

July 28, 2015

HDR

4401 West Gate Blvd. Suite 400

Austin, Texas 78745

Attention. David D. Dunn

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

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I find it hard to believe that the same government that refused farmers aid in constructing stock tanks because they deemed it unsuitable to hold water, now want to build a 4400 acre mud hole on land that 42% of the soil is like or more porous than what was deemed unfit.

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

I found the cavalier attitude you exhibited at the BRA meeting and your subsequent TV interview, June 23, 2015, both insulting and appalling. You stated that the Little River OCR in Milam County, Texas was the best option to supply water for the countless thousands of Yankees and Californians moving to this state. How did you reach this ambiguous conclusion?

08/12/2015

TWDB
1700 North Congress Avenue
Austin, Texas 78701
Subject: Little River Off Channel Reservoir Milam County
Attention: Bech Bruun

Dear Mr. Bruun

I am Mike Kornegay a 68 year old native Texan born in Cameron Texas August 13, 1947. My family has over 800 acres there will either be flooded or we will ingress and egress to what isn't flooded. 244 1/2 acres has been in the family for 130 years and is recognized by the state as a century old continuous farming and ranching operation. The rest has been in the family 75years.

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The loss of tax revenue will cripple Milano and Gause ISD's and put an undue burden on the entire county. Surely there are better and more economic options to solve the States future water needs.

We ask that you work with Brazos G and H and permanently remove the Little River OCR from this year's plan and all future plans and not be classified as a Unique Reservoir Site

Thanks for your consideration.

Michael Wayne Kornegay

Michael Wayne Kornegay

08/12/2015

TWDB
1700 North Congress Avenue
Austin, Texas 78701
Subject: Little River Off Channel Reservoir Milam County
Attention: Kathleen Jackson

Dear Mrs. Jackson

I am Mike Kornegay a 68 year old native Texan born in Cameron Texas August 13, 1947. My family has over 800 acres there will either be flooded or we will ingress and egress to what isn't flooded. 244 1/2 acres has been in the family for 130 years and is recognized by the state as a century old continuous farming and ranching operation. The rest has been in the family 75years.

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My family is just one story of many century old Texas families that will be decimated if this comes to fruition. The lake will flood parts of the Nationally recognized historic El Camino Real and Pin Oak Cemetery that dates back to the early 1800's. My Great Grandfather and Grandmother are buried there along with Civil War and Korean War Veterans and several of my friends Great relatives and is also recognized as an Historic Cemetery.

This project is not economical. 42% of the flooded area is Carrizo-Wilcox outcrop and will not hold water. The plan is to fill the lake during times of high flow of the Brazos River via a 12' diameter pipeline and then lay a pipe line to Williamson County for use in municipalities.

The loss of tax revenue will cripple Milano and Gause ISD's and put an undue burden on the entire county. Surely there are better and more economic options to solve the States future water needs.

We ask that you work with Brazos G and H and permanently remove the Little River OCR from this year's plan and all future plans and not be classified as a Unique Reservoir Site

Thanks for your consideration.

Michael Wayne Kornegay

Michael Wayne Kornegay

08/12/2015

TWDB
1700 North Congress Avenue
Austin, Texas 78701
Subject: Little River Off Channel Reservoir Milam County
Attention: Carlos Rubinstein

Dear Chairman Rubinstein

I am Mike Kornegay a 68 year old native Texan born in Cameron Texas August 13, 1947. My family has over 800 acres there will either be flooded or we will ingress and egress to what isn't flooded. 244 1/2 acres has been in the family for 130 years and is recognized by the state as a century old continuous farming and ranching operation. The rest has been in the family 75years.

Our land is not in a 100 year floodplain and is fertile productive land that provides our living and more importantly our peace of mind.

My family is just one story of many century old Texas families that will be decimated if this comes to fruition. The lake will flood parts of the Nationally recognized historic El Camino Real and Pin Oak Cemetery that dates back to the early 1800's. My Great Grandfather and Grandmother are buried there along with Civil War and Korean War Veterans and several of my friends Great relatives and is also recognized as an Historic Cemetery.

This project is not economical. 42% of the flooded area is Carrizo-Wilcox outcrop and will not hold water. The plan is to fill the lake during times of high flow of the Brazos River via a 12' diameter pipeline and then lay a pipe line to Williamson County for use in municipalities.

The loss of tax revenue will cripple Milano and Gause ISD's and put an undue burden on the entire county. Surely there are better and more economic options to solve the States future water needs.

We ask that you work with Brazos G and H and permanently remove the Little River OCR from this year's plan and all future plans and not be classified as a Unique Reservoir Site

Thanks for your consideration.

Michael Wayne Kornegay

Michael Wayne Kornegay

Office of Senator Schwertner

July 16, 2015

501 South Austin Avenue

Suite 1250

Georgetown, Texas 78626

Senator Schwertner,

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loss of ingress and egress. Is this how our legislators plan to grow Texas, on the backs of century old Texas ranching and farming families?

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

I asked one of your aides to ask you to write a letter to Region G voicing your opposition to this flawed project. He informed me that didn't fall under your purview. I thought my State Senator would and should be concerned about the plight of his/her residents.

WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington.

Office of The Governor JULY 16,2015

P.O. Box 12428

Austin, Texas 78711-2428

Governor Abbott

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loss of ingress and egress. Is this how you plan to grow Texas, on the backs of century old Texas ranching and farming families?

You spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington.

Office of Representative Farney

July 16, 2015

1833 Williams Drive Suite 201

Georgetown, Texas 78626

Representative Farney,

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loss of ingress and egress. Is this how our legislators plan to grow Texas, on the backs of century old Texas ranching and farming families?

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

Aaron Gibson said you were writing a letter to Region G voicing your opposition to this abusive plan. If you did, can you email a signed copy of the letter to mikewaynek@aol.com prior to August 10,2015?

WE NEED YOUR SUPPORT

Thanks for your consideration

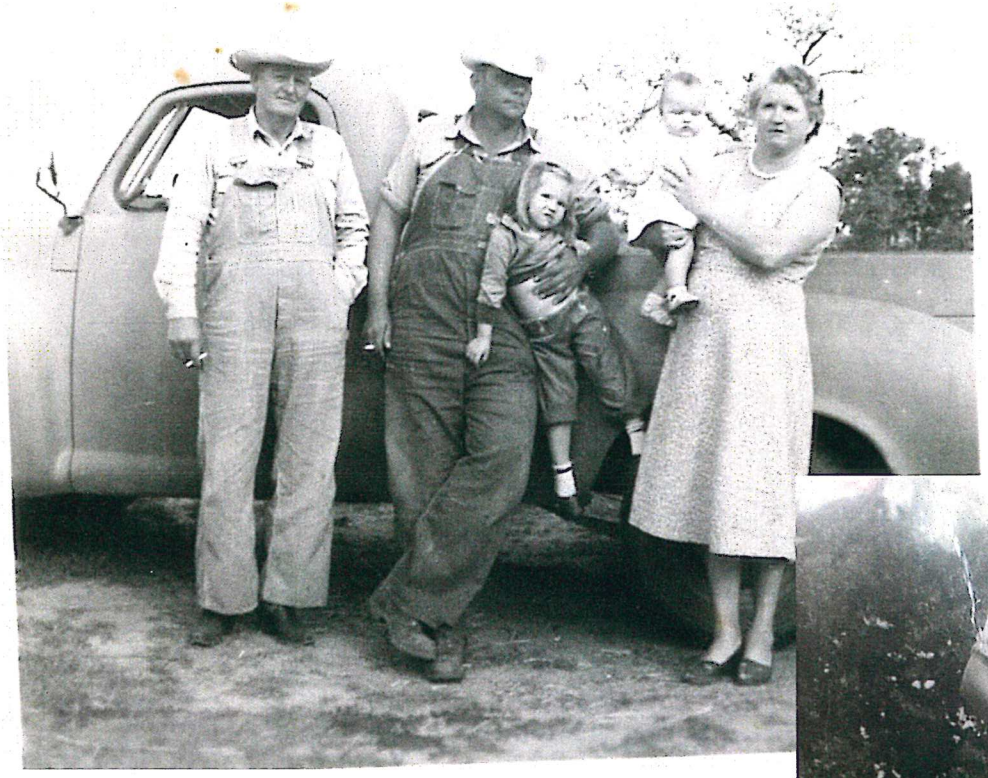
Michael W. Kornegay

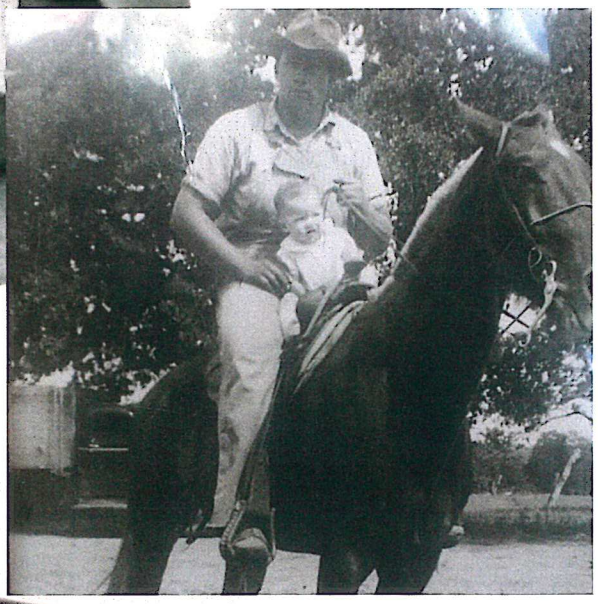
Michael Wayne Kornegay

Mary Lou Kornegay

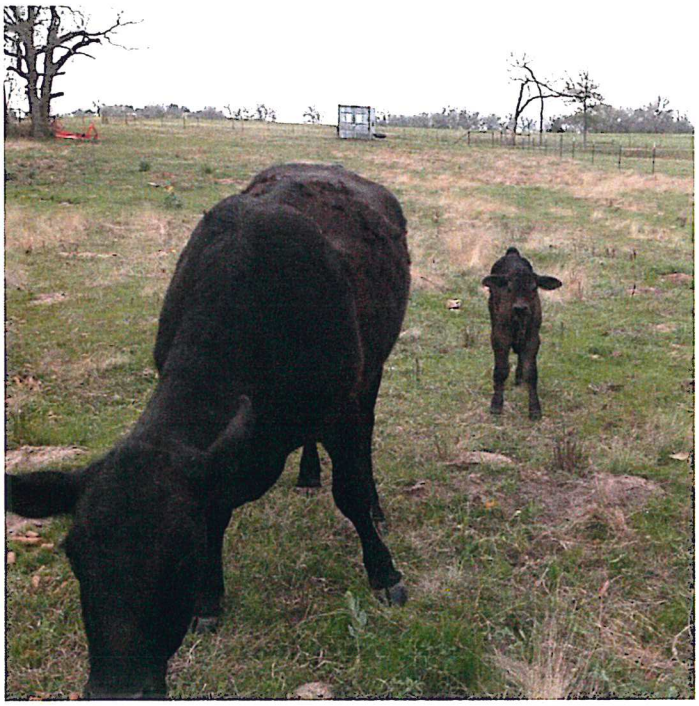
Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington.

Kornegay Family





4 Generations of Kornegays



Unique rock on Mike Kornegay's place. There appears to be faces sculpted in the rock. Exploring with archeologist if this is an Indian artifact.

Aug. 15, 2015

Norma Schroeder Schendel
PO Box 152/127 W 3rd St
Yorktown TX 78164

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

I am vehemently opposed to the proposed Little River Off-Channel Reservoir for many reasons. The area included in this proposed project is one very dear to my heart. My maternal grandmother's entire family hails from the Pin Oak/Gause/Liberty area. I fondly remember many trips to this community. It instantly feels like "home" to me whenever I am fortunate to visit. Many stories I've heard all my life seem to come to life for me when I am there.

In particular the story of my great-great grandmother raising two small children alone while her husband went off to New Mexico to fight for the Confederacy. She was forced to defend her home and children from a would-be invader by chopping off a man's fingers as he sought to break into her home. Not only that but she was left to run a store at Pin Oak on her own to support her family. Sadly, her husband came home a very sickly man after the war and died young leaving her alone. She buried him in the Pin Oak Cemetery which you now propose to flood. His grave was lost but my mother and sister and I worked to get a Veteran's marker for his grave and even had a memorial service to mark its installation. It pains me greatly to think of that beautiful designated Texas Historic Cemetery flooded!

It upsets me terribly to think that all the beautiful land where these events took place could possibly be flooded. I remember the stories my grandmother told of visiting family and running barefoot up and down the hills and pastures. What heartbreak to picture these lands under water. I feel terrible for all the families that live there and have owned their lands for generations, the animals that will be lost or displaced, the flooding that will cover the El Camino Real National Historic Trail and the historic Indian campgrounds and artifacts that will be lost.

Please reconsider the proposed Little River Off-Channel Reservoir. Please take it off the books. Put yourself in the shoes of all those who stand to lose so much if this project is completed. Thank you for your time and consideration.

Sincerely,

Norma Schroeder Schendel

Aug. 15, 2015

Arlene Schroeder
310 W. Main St.
Yorktown TX 78164-5089

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group

In the mid-19th century, my great-great-great-grandparents Robert and Freelove Stewart settled in Milam County, Texas. For nearly a century to follow, their descendants would live and farm this beautiful area. In 1860, their daughter Mary wed John H. Alley shortly before he marched off to war. John was taken as a prisoner of war to Camp Douglas in Chicago. His health was never the same after his ordeal, and he died a few years after the close of the war. Sgt. John H. Alley, C.S.A., is buried in the historic Pin Oak Cemetery.

While John was away at war, Mary Alley buried their only son, and raised two daughters on her own. At one point she operated a store in Hanover to support herself. My grandmother, Clydelle Lantrip, told us that Mary Alley was "red-headed Scotch-Irish, with a temper to her."

My family worked to get a headstone set in Pin Oak Cemetery as a memorial for John Alley. We had a dedication for it with the help of historical re-enactors. Now I am told the land where my ancestors lived, died and are buried is to be flooded. The Texas Historically designated Pin Oak Cemetery is to be desecrated.

This should never happen. I strongly oppose the Little River Off-Channel Reservoir not only for my sake, and not just for the sake of our descendants, who will lose their beautiful and historic homesteads, but also for the sake of our ancestors, who sacrificed so much to leave us this legacy. History will not look kindly upon us if we allow this legacy to be destroyed for the profit of outside interests.

Sincerely,

Arlene Schroeder

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR
stop.little.river.ocr@gmail.com

June 10, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group:

I am writing this letter to **oppose** the Little River Off-Channel Reservoir proposal highlighted in the Initially Prepared 2016 Brazos G Regional Water Plan.

The acreage that I own has been in the Shafer family for over 100 years. When I inherited the property in 1988, it was heavily wooded and overgrown with brush. I had the property cleared, fenced and planted with improved grass for grazing. The property is now productive pasture land for grazing beef cattle.

My ancestors labored hard and scrimped to be able to keep the land so that future generations of Shafers would be able to enjoy it, and I intend to pass this land on to my children and grandsons. The construction of this reservoir would destroy my dreams and the dreams of my ancestors to pass this property on to the future generations of Shafers.

My family and members of this community ask that you dismiss the Little River Off-Channel proposal from the 2016 plan and future plans. Thank you for your consideration in this request. If you have any further questions, please do not hesitate to contact me at 979-533-1435.

Sincerely,

Harold C. and Susan Shafer
Clay Shafer
Kyle Shafer
Allison Shafer Riherd
Reece Riherd
Parker Riherd

RESOLUTIONS

Overview:

This section provides documentation of the resolutions passed within our community opposing the LROCR.

- Milam County Commissioners Court
- Milano City Council
- Gause ISD
- Milano ISD
- 22 Hills Homeowners Association

Note: In addition, the Milam County Farm Bureau publically opposed the LROCR as noted in the Cameron Herald on July 16, 2015.

Little River Off-Channel Reservoir

Milam County

David L. Barkemeyer
County Judge
102 South Fannin Ave.
Cameron.Texas 76520

Phone 254-697-7000
Fax 254-697-7002
info@milamcounty.net

At a meeting of the Commissioner's Court of Milam County, Texas held at Cameron, Texas on June 8, 2015:

RESOLUTION OPPOSING THE CREATION OF A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, the Brazos G. Water Planning Group and/or the Brazos H. Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas, to export the water to other Counties, and

WHEREAS, this devastating action would take historical land, impact agriculture, remove wild life and take away precious natural resources including farms and ranches that have been owned and operated by Milam County families for generations, and

WHEREAS, on October 18, 2004 the National Trails System Act was amended by the United States Congress to designate El Camino Real De Los Tejas as a National Historic Trail, and

WHEREAS, this National Historic Trail crosses properties that have been designated as sites for construction of the Little River Off-Channel Reservoir, and

WHEREAS, this Reservoir would also flood and destroy the Pin Oak Cemetery which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission, and

WHEREAS, construction of the Little River Off-Channel Reservoir would have harmful biological impacts upon existing and endangered and threatened species of concern for Milam County, and

WHEREAS, this proposed project would lead to the destruction of significant parts of Farm Road 2095 and prevent direct access for the Gause and Hanover communities to and from Cameron, Texas, and,

WHEREAS, creation of this Reservoir would have an adverse effect upon the tax bases of the Gause Independent School District, the Milano Independent School District and of Milam County, Texas, and,

WHEREAS, a significant portion of valuable agricultural land would be covered that is protected under the Federal Farmland Protection Policy Act, and,

WHEREAS, the proposed reservoir would provide no significant economic or recreational value for Milam County,

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Commissioner's Court of Milam County, Texas that it opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and/or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration.

David Barkemeyer, Milam County Judge

Richard "Opey" Watkins, Commissioner, Pct 1

Donald Shuffield, Commissioner, Pct 2

John Fisher, Commissioner, Pct 3

Jeff Muegge, Commissioner, Pct 4

At a meeting of the Milano City Council held at Milano, Texas on June 15, 2015:

RESOLUTION OPPOSING THE CREATION OF
A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, the Brazos G. Regional Water Planning Group and/or the Brazos H. Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas, to export the water to other Counties, and

WHEREAS, this devastating action would take historical land, impact agriculture, remove wild life and take away precious natural resources including farms and ranches that have been owned and operated by Milam County families for generations, and

WHEREAS, on October 18, 2004 the National Trails System Act was amended by the United States Congress to designate El Camino Real De Los Tejas as a National Historic Trail, and

WHEREAS, this National Historic Trail crosses properties that have been designated as sites for construction of the Little River Off-Channel Reservoir, and

WHEREAS, this Reservoir would also flood and destroy the Pin Oak Cemetery which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission, and

WHEREAS, construction of the Little River Off-Channel Reservoir would have harmful biological impacts upon existing and endangered and threatened species of concern for Milam County, and

WHEREAS, this proposed project would lead to the destruction of significant parts of Farm Road 2095 and prevent direct access for the Gause and Hanover communities to and from Cameron, Texas, and

WHEREAS, creation of this Reservoir would have a adverse effect upon the tax bases of the Gause Independent School District, the Milano Independent School District and of Milam County, Texas.

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Milano City Council of Milano, Texas that it opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and/or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration.

APPROVED THIS 15 DAY OF JUNE, 2015.

Billy Barnett
Mayor

Carol Newman
Mayor Pro Tem

Connie Seelke
Alderwoman

David Gunnels Jr.
Alderman

Henry Dykes
Alderman

Rodney Gage
Alderman

At a meeting of the Gause Independent School District School Board held at Gause, Texas on June 9th, 2015:

RESOLUTION OPPOSING THE CREATION OF
A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, the Brazos G. Regional Water Planning Group and/or the Brazos H. Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas, to export the water to other Counties, and

WHEREAS, this devastating action would take historical land, impact agriculture, remove wild life and take away precious natural resources including farms and ranches that have been owned and operated by Milam County families for generations, and

WHEREAS, on October 18, 2004 the National Trails System Act was amended by the United States Congress to designate El Camino Real De Los Tejas as a National Historic Trail, and

WHEREAS, this National Historic Trail crosses properties that have been designated as sites for construction of the Little River Off-Channel Reservoir, and

WHEREAS, this Reservoir would also flood and destroy the Pin Oak Cemetery which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission, and

WHEREAS, construction of the Little River Off-Channel Reservoir would have harmful biological impacts upon existing and endangered and threatened species of concern for Milam County, and

WHEREAS, this proposed project would lead to the destruction of significant parts of Farm Road 2095 and prevent direct access for the Gause and Hanover communities to and from Cameron, Texas, and

WHEREAS, creation of this Reservoir would have a adverse effect upon the tax bases of the Gause Independent School District, the Milano Independent School District and of Milam County, Texas.

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Commissioners Court of Milam County, Texas that it opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and/or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration.

APPROVED THIS 9th DAY OF JUNE, 2015.

Bill Jones
President

Linda Hoppe
Vice President

Kathy Turner
Secretary

Henry Bonorden
Member

Melanie Rasco
Member

Judy Roper
Member

Tammy Smith
Member

22 Hills Homeowners' Association
Architectural Control Committee

At a called meeting the 22 Hills Homeowners' Association Architectural Control Committee, at 1800 22 Hills Road, Gause, Texas at 11:00 am on June 13, 2015, the following approved:

RESOLUTION OPPOSING CREATION OF A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, The Brazos G Regional Water Planning Group is proposing a plan to construct an "off-channel reservoir" that would flood approximately 4,350 acres of private land contiguous to and including the West end of the 22 Hills property near Gause, Milam County, Texas for the purpose of exporting water to other counties and/or entities, and

WHEREAS, the proposed project would inundate all or portions of several 22 Hills properties, and

WHEREAS, the proposed project will potentially cause other 22 Hills properties to be condemned, even though not flooded, for the purpose of wildlife habitat for displaced wildlife, and

WHEREAS, the proposed project would have an adverse effect upon the tax bases for Milam County and the Gause Independent School District, and the Milano Independent School District, and therefore raising taxes on area residents who receive no benefit from those increased taxes, and

WHEREAS, just the announcement of the potential project will have a demonstratively negative impact on any owner attempting to sell his or her land on the open market, effectively reducing the value of said land or potentially making it unmarketable, and

WHEREAS, the proposed project provides no tangible benefit to 22 Hills, its property owners, or Milam County in general, and because the landowners will lose their land to benefit those in some other county or location, and

WHEREAS, the proposed project will inundate large stretches of the National Historic Trail known as the El Camino Real De Los Tejas as well as the Pin Oak Cemetery, both to the Northwest of 22 Hills, and

WHEREAS, the proposed project will destroy the lifestyle and long-term lifelong plans residents have made with regard to living out their years or using their land in the 22 Hills environment in which they purchased said land,

WHEREAS, the proposed project would severely impact the lives of 22 Hills residents' heirs who would be disenfranchised from inheriting the quiet, scenic, and peaceful lands comprising 22 Hills as well as those lands in the immediate surrounding area that their parents, grand

parents, or great grand parents, as the case may be, had worked hard to purchase for those heirs' ultimate enjoyment,

THEREFORE IT IS HEREBY RESOLVED by the 22 Hills Homeowners' Association Architectural Control Committee that it strongly opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G Regional Water Planning Group and or related groups to drop this project from their list of planned projects.

Dan Fischer, Member Tracy Dixon, Member Jack Marino, Sr., Member

Attested to by the following listed landowners composing the Texas Rural Subdivision, 22 Hills standing in unison with the Resolution:

Gerald & Herlinda Briggs
Earl & Carol Campbell
Jim & Annette Davis
Tracy & Lisa Dixon
Vivian Dixon
Joe & Becky Ferrara
Dan & Reba Fischer
Terry & Sheryl Hall
Don & Lynn Hagan
Chris & Jennifer Juhl
Norman & Linda Koch
Jack Marino Sr.
Mike & Jeanne Niklasch
Ken & Carla Rhodes
Mike & Lindsay Rowland
Fred & Mary Ann Russell
James & Tonetta Schlemmer
Daniel & Chasity Shaw
Trey & Jennifer Skiles
Jeff & Nancy Soechting
Evan & Stephanie Vause
Jim & Mary Waldson
Larry & Kim Wall
Lee & Linda Walters
Arash Yekrangi-Tajvidi

PIN OAK CEMETERY

Overview:

This section provides a historical account of the Pin Oak Cemetery, a historic site in the state of Texas. 1,706 out of 50,000 cemeteries are recognized by the state as historic sites, which means the Pin Oak Cemetery is listed among 3% of historic cemeteries within approximately 171 million acres in the State of Texas. There are about 130+ graves, including 9 graves of Civil War soldiers and one soldier from the Korean War.

Little River Off-Channel Reservoir

Texas Historical Commission

Historic Texas Cemetery Application

PIN OAK CEMETERY HISTORY

I. CONTEXT

Pin Oak is an agricultural community eight miles northeast of Milano, named for local trees.[1] The Pin Oak cemetery extends along Pin Oak Creek.[2] Pin Oak cemetery in this community is located on land granted to Jose Fancisco Ruiz (1783 – 1840). Ruiz was a Mexican military officer and, later, a signer of the Texas Declaration of Independence. The Ruiz family and Thomas Jefferson Chambers both claimed the land covered by this grant, and the matter was ultimately settled by the Texas Supreme Court.[2]

The land that is crossed to get to the cemetery, adjoining FM 2095, was once owned by Josiah John "Bull" Williams. The land on the opposite (southern) side of the cemetery was owned by Walker P. Perkins. A deed recorded at Volume 43, Page 475 of the Milam County, Texas Deed Records shows that Perkins, in 1896, purchased a 140-acre tract. [3] In the same year, Perkins conveyed about 2 ½ acres of the tract to W. H. Spinks, R. T. Littleton, and John Ditto "as trustees in trust for the use and benefit of the surrounding and adjoining community for a grave yard." [3] In 1972, the 142-acre tract (save and except the cemetery) was conveyed by Perkins' children to Eugene W. Baumann and wife Elaine Shafer Baumann. [2] The Jones family retained 35 ½ acres of this land.

Pin Oak Cemetery is located in Milam County, Texas between Hanover and Gause. In Hanover, from the intersection of FM 2095 & FM 3242, follow FM 2095 for 2.8 miles toward Gause. Turn right into a lot with mobile home. Follow a dirt road out of the rear of the lot and continue straight when presented with an option to turn left. The

There are ten Civil War tombstones in Pin Oak Cemetery. Notable among these are two members of the famous Hood's Brigade of Texas. They are J.T. Austin (personal communication, Walter W. "Bud" Williams, January 4, 2008) and James L. Stewart.[6] Other Confederate Veterans who are interred in the Pin Oak Cemetery are: John H. Alley, John Ditto, W. M. Faubion, Arnold Robert Kornegay, Alex Shafer, John Shafer, John J. Williams, and Jerry Watson. [4]

William M. Faubion and his wife Charlotte Faubion and son James D. Faubion are also interred in Pin Oak Cemetery. The Faubion family is the namesake of the historic Faubion Bridge located near Sugar Loaf Mountain and extends across Little River in Milam County, Texas. Built in 1906, the old bridge was a steel suspension bridge with a concrete pier standing in the middle of the river to support the center of the bridge.[7]

Josephine Stewart Westbrook is also interred in Pin Oak Cemetery. She is the sister of Edna Trigg who was the first Home Demonstration Agent in the nation (1912). Mrs. Trigg started the Tomato Club in Milam County. (personal communication, Christine Holcombe, Milam County Extension Agent, retired, January 4, 2008)

There are quite a few very young people interred in the Pin Oak Cemetery. This was due in part to the lack of medications that were available. Zola Watson Shafter (my grandmother) lost two teenage sons and a four-year-old son in a two-year period. She was too ill, herself, to attend the funeral of one of her children.

III. SIGNIFICANCE

Transportation and money were limited; therefore, families interred their loved ones at no cost. Local residents maintained the cemetery and it continues to be

IV. DOCUMENTATION

[1] Batte, L.M. (1956). *History of Milam County, Texas*. The Naylor Company: San Antonio. p. 169.

[2] Walker, J.D., Walker, C. E. & Holcombe, A. D. (2006). *Pin Oak Cemetery*. http://jamesdavidwalker.com/poc.htm

[3] Milam County Deed Records, Vol. 43, p. 475. Cameron. Texas.

[4] Holman, N.H. (2001). *170 Years of Cemetery Records in Milam County, Texas*. Armstrong Printing Inc.: Austin. Vol. 2, p. 854.

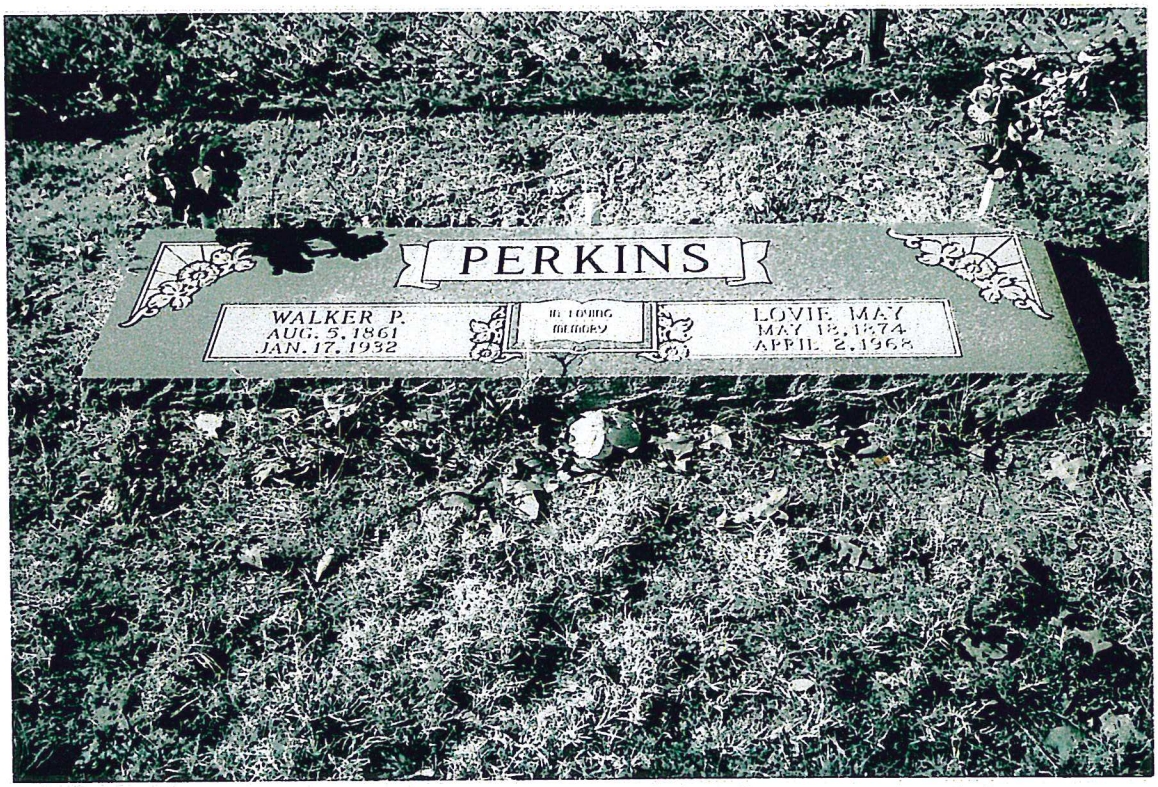
[5] Milam County Heritage Preservation Society. (1984). *Matchless Milam*. Taylor Publishing Company: Dallas. p. 299.

[6] Williams, J.E. (1993). *Milam County, Texas in the Civil War*. Cameron, Texas.

[7] Browder, E. W., (1997). *Gause, Texas, A Legacy in Pieces*. Nortex Press: Austin. p. 15.

Pin Oak Cemetery
Texas Historic Cemetery Application Photos

Pin Oak Cemetery
Texas Historic Cemetery Application Photos



Pin Oak Cemetery
Texas Historic Cemetery Application Photos

Pin Oak Cemetery
Texas Historic Cemetery Application Photos

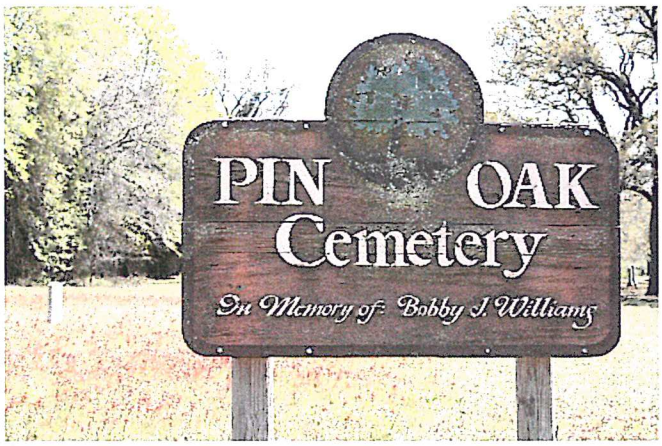
Historic Texas Cemetery

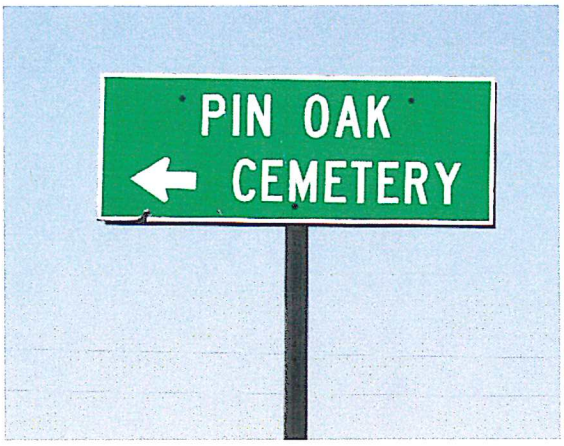
Dedication Ceremony

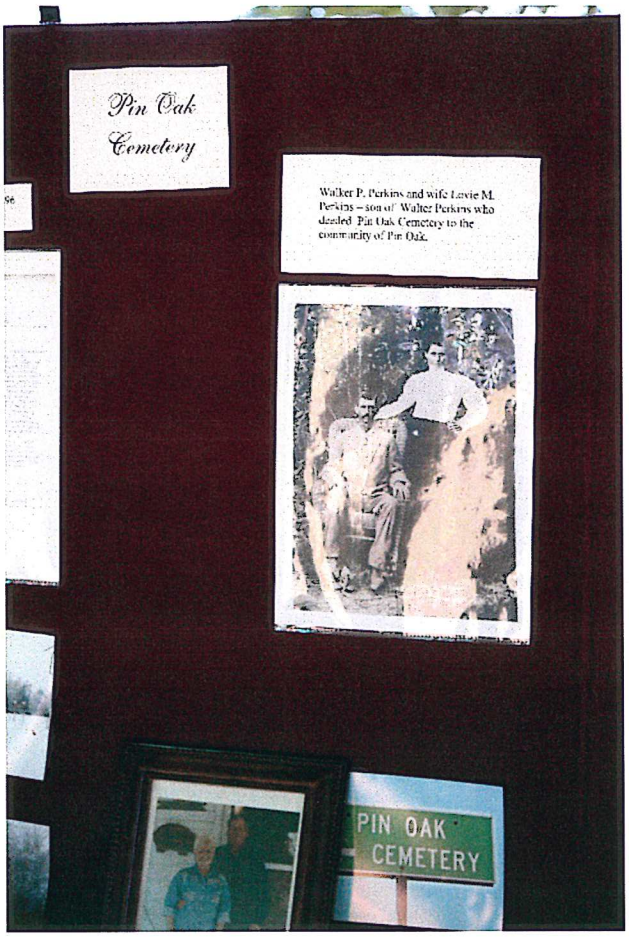
Pin Oak Cemetery

Texas Historic Cemetery

Dedication: April 24, 2010






Pin Oak Cemetery
Walker P. Perkins and wife Lavie M. Perkins – son of Walter Perkins who deeded Pin Oak Cemetery to the community of Pin Oak.
PIN OAK CEMETERY

Pin Oak School

PIN OAK CEMETERY
THIS BURIAL GROUND, WHICH EXTENDS ALONG PIN OAK CREEK, HAS SERVED THE RURAL PIN OAK SETTLEMENT, AS WELL AS THE SURROUNDING GAULT, RANDITE AND JEETH COMMUNITIES. MOST OF THE AREA SETTLERS, THE EARLIEST OF WHOM WERE HERE BY THE 1850s, TOOK ADVANTAGE OF THE AREA'S FERTILE SOIL AND ENGAGED IN AGRICULTURE. MANY OF THE EARLY PIN OAK SETTLERS WERE RELATED, WITH A NUMBER COMING FROM TENNESSEE, KENTUCKY, GEORGIA, AND MORGAN AND MARSHALL COUNTIES IN ALABAMA. THE SETTLERS ESTABLISHED A SCHOOL PRIOR TO THE CIVIL WAR, WHICH SERVED PIN OAK UNTIL IT CONSOLIDATED WITH THE MILANO INDEPENDENT SCHOOL DISTRICT IN 1949.
THIS PROPERTY WAS DEEDED BY WALKER P. PERKINS FOR USE AS A CEMETERY IN 1894, WHEN HE CONVEYED IT TO TRUSTEES W.H. SPINKS, B.T. LITTLETON AND JOHN BITTLE. THE EARLIEST KNOWN BURIALS, OF CHARLES SHARTE AND THEIR JAMES D. FAULKNER, OCCURRED IN 88. THOUGH THERE MAY BE OLDER UNMARKED GRAVES, CEMETERY FEATURES INCLUDE VERTICAL STONES, CURBING AND DIRGES. AMONG THE INTERRED ARE VETERANS OF CONFLICTS DATING TO THE CIVIL WAR.
THE PIN OAK COMMUNITY BEGAN TO DECLINE AFTER WORLD WAR II, AS MANY RESIDENTS FOLLOWED THE NATIONAL TREND IN MOVING TO URBAN AREAS FOR EMPLOYMENT OPPORTUNITIES. THE CEMETERY DETERIORATED, BUT CONCERNED FAMILY MEMBERS WORKED TO PRESERVE THE BURIAL GROUND. TODAY, RESIDENTS AND RELATIVES OF THE DECEASED CONTINUE TO CARE FOR THE CEMETERY, WHICH SERVES AS A RECORD OF THE PIONEERING MEN AND WOMEN OF THE PIN OAK COMMUNITY.

Pin Oak Cemetery

Original Language Drafted for the Texas Historical Cemetery Marker

The Native Americans who lived in the area of the Pin Oak Creek and believed nearby Sugar Loaf Mountain to have religious significance, must have surely been surprised to see the early settlers move in and establish what was to become the community of Pin Oak, circa 1845-1855. Pin Oak Creek, being a dependable source of fresh water, points to archeological evidence of Native American cultures living along its banks for thousands of years. (personal communication, Robert Gatson, November 9, 2008)

Some of the first families to settle in the Pin Oak area bore the surnames of Shafer, Davidson, Stewart, Faubion, Long, and Cox. They were followed shortly by Ditto, Kornegay, Williams, Perkins, Walker, Vaughn, Watson, Craig, Austin, Grandham, and Needham. Many of them came from Alabama, Tennessee, Kentucky, and Georgia. Most of them found a livelihood in farming. The first priority of the farmer was to produce enough food to feed their family. In good years excess crops were sold to make extra money. Some of the primary crops were corn and cotton. For many years horses and mules provided a means for cultivating the soil. The close proximity of the fertile Little River Bottom area proved to be an asset to the residents of the Pin Oak community (personal communication, Watson H. Shafer and Walter W. Williams, November 7, 2008) (1. Lielia M. Batte, History of Milam County, Texas)

With the growth of families in the Pin Oak community it was inevitable that a school would be forthcoming. Pin Oak residents opened their first school on what was known as the Watson place, circa 1850-1860. The location of the school was later changed to a site near the public road where grades one through seven were taught. This school was destroyed by fire in the early 1900's. The school was soon rebuilt by community residents. In 1930, it was remodeled and repaired by Gause carpenter Charlie Hammond. At that time playground equipment was added for the approximately thirty-two students who were enrolled. Trustees who served the school at various times were: John Frank Shafer, Sr., John Frank Shafer, Jr., Alex Shafer, Clyde Williams, and Waddie Cass. Teachers at Pin Oak School included Aileen Gidley (who commuted from Gause to Pin Oak in a buggy), Helen Hauptfleisch, Ima Timmons, Bess Evard, Eunice McClure,

References

1. Lelia M. Batte. (1956). *History of Milam County, Texas.* The Naylor Company: San Antonio. p. 56.

2. Milam County Heritage Preservation Society. (1984). *Matchless Milam.* Taylor Publishing Company: Dallas. p. 299.

3. Mary Ann Eanes. (2002). *Milam County Courthouse And Its People*. Taylor Publishing Company: Dallas. p. 23

TEXAS HISTORICAL COMMISSION

CERTIFIES THAT

PIN OAK CEMETERY

MILAM COUNTY

IS RECORDED AS A

HISTORIC TEXAS CEMETERY

IN 2008

EXECUTIVE DIRECTOR, TEXAS HISTORICAL COMMISSION

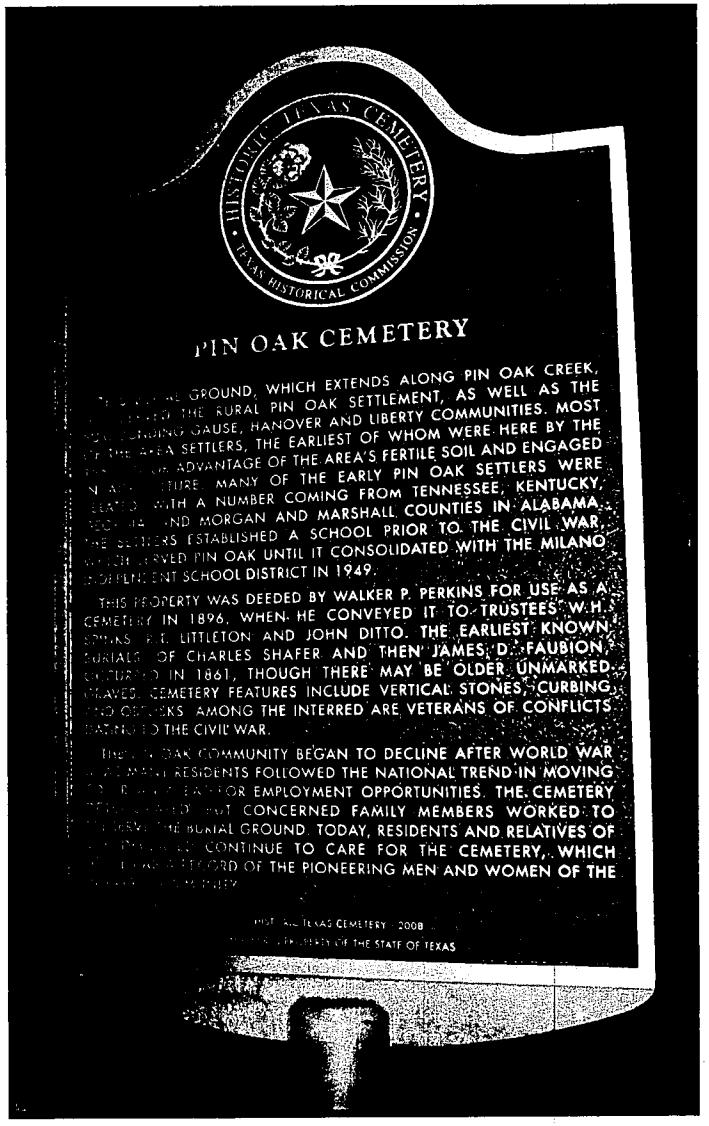
DIRECTOR, HISTORY PROGRAMS DIVISION

For those of us who have loved ones in Pin Oak Cemetery, may this marker serve both as a reminder and symbol of our appreciation for the hard work, the sacrifices, and the legacy that our ancestors have instilled in our lives. May we so honor them by setting such an example for our own descendents.

Elaine S. Baumann

DEDICATION CEREMONY

TEXAS HISTORICAL MARKER
PIN OAK CEMETERY
APRIL 24, 2010



Pin Oak Cemetery Enhancements

Pin Oak Cemetery Enhancements

From the time that the land for the Pin Oak Cemetery was donated in 1896 until 1971, a barbed wire fence surrounded the cemetery. Over the years it fell to ill repair, and, occasionally, cows would be found in the cemetery. In 1970 and 1971 Elaine Shafer Baumann and Arnold Kornegay collected donations to be used for the purpose of building a chain link fence around the cemetery. When the funds were raised T. P. Springer was paid $1,045.80 to put a fence around the Pin Oak Cemetery. The fence was put up in August of 1971.

When Bobby J. Williams passed away in 1983, a sign was donated in his memory depicting an oak tree with the Pin Oak Cemetery name around it and his name below it. The sign sill stands today.

Elaine Shafer Baumann acquired a sign from the Texas Highway Department with the Pin Oak Cemetery name on it. The sign was placed on FM 2095 and indicates where to turn to reach the cemetery.

Pin Oak Cemetery played an important role in the Pin Oak Community and in the surrounding communities of Gause, Hanover and Liberty. "Cemetery workings" or cleanings were held on a yearly basis either in June or July. Relatives and friends from the community, surrounding communities and event as far away as Houston, Conroe, and Humble would attend. The ladies would prepare lunches of fried chicken and fresh vegetables. Dinner would be served to those in attendance. The men, and sometimes the entire family, would work to clean the cemetery. Often the children would play while their parents worked. The "cemetery workings" continued at Pin Oak until the early 1940's. (personal communication, Watson Hubert Shafer, January 4, 2008).

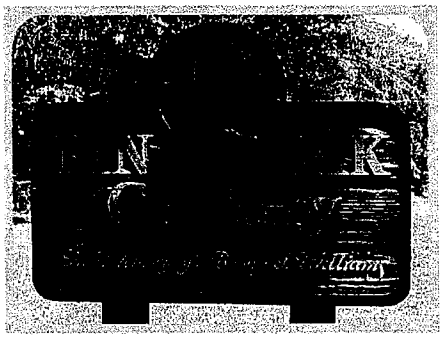
Elaine Shafer Baumann continues to collect donations to maintain the grounds of the cemetery. The cemetery is regularly mowed and cleaned of debris to this day.

Pin Oak Cemetery Website Content

Pin Oak Cemetery Website

Author & Milam County Resident: James Walker

http://jamesdavidwalker.com/poc.htm

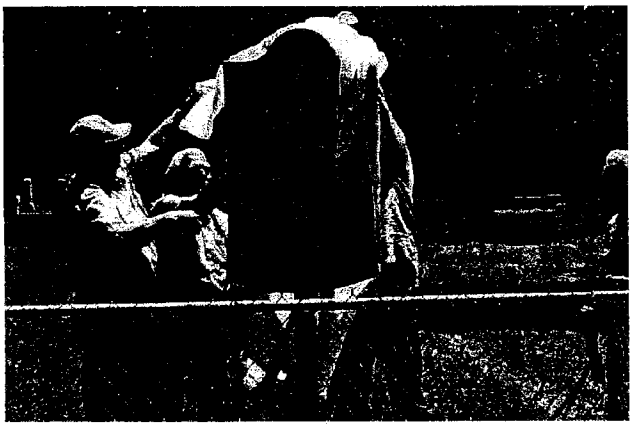


I (James Walker) am the great grandson of Madison "Matt" Walker and Emma Tryphena Aycock Walker, both buried at Pin Oak. If you are related to or interested in the Pin Oak families, I would like to hear from you. I seek biographical information on, and photos of, each person buried at Pin Oak.

Pin Oak Cemetery is located in Milam County, Texas between Hanover and Gause. In Hanover, from the intersection of FM 2095 & FM 3242, follow FM 2095 for 2.8 miles toward Gause. Turn right into a lot with mobile home. Follow a dirt road out of the rear of the lot and continue straight when presented with an option to turn left. The cemetery will be on the left, enclosed by a chain-link fence, about 2/10 of a mile off of FM 2095.

The sign at the entrance to the cemetery (photo above) was placed by Jeanne Williams, in remembrance of her late husband, Robert Javis "Bobby" Williams, who is buried at the cemetery.

Through the efforts of Elaine Baumann, Pin Oak Cemetery received a historical marker. The dedication ceremony was held Saturday, April 24, 2010. In the photo, the marker is unveiled:



Many of the Pin Oak families are related. Sometimes these relationships go back to a time before the families came to Texas. For example, more than a few of the families came from Morgan County and Marshall County in Alabama. Therefore, if you are researching a Pin Oak family's ancestry, you would do well to review the information herein posted for other families.

It would be impossible to list all who have contributed to this website. Walter "Bud" Williams, a retired attorney who grew up in the Pin Oak area, has done historical and genealogical research on Pin Oak and its residents. Elaine Shafer Baumann, who owns the land around the cemetery, was raised and still resides in the Pin Oak community.

The cemetery was surveyed in December of 1978 by me, my wife Cheryl Laws Walker, and my nephew Andrew David "Andy" Holcombe (who was then only about a year-and-a-half old). The survey has been updated numerous times since.

ALPHABETICAL LIST

This is an alphabetical list of all persons known to be buried (or known to have a cemetery marker) at Pin Oak. The list does not include names mentioned in the biographies.

Alley, John H.	Shafer, Alex
Austin, J. T.	Shafer, Alexander
Black, Ruby Lee	Shafer, Alford
Carter, Martha H.	Shafer, Bob B.
Cox, Erie	Shafer, Charlie
Craig, Susan L.	Shafer, Elisha
Davidson, Emma	Shafer, Fannie
Davidson, Jane	Shafer, Franklin
Davidson, Riley C.	Shafer, J. Frank
Davidson, Stephen	Shafer, James Alex
Davidson, Willie P.	Shafer, John F.
Ditto, Elvira	Shafer, Mary
Ditto, John	Shafer, Mattie Lynn
Ditto, John Henry	Shafer, Mrs. Lavina
Ditto, John Hensley	Shafer, Murf
Faubion, Charlotte	Shafer, Ruby L.
Faubion, James D.	Shafer, Zola
Faubion, W. M.	Spinks, Martha J.
Grantham, Eliza	Stewart, Almedia
Grantham, Y. W.	Stewart, James L.
Green, Victoria H.	Stewart, Josephine Westbrook
Griffin, James N.	Stewart, Minnie
Griffin, Samuel J.	Vaughn, Mrs. Mary M.
Kornegay, Ellen M. Addams	Walker, (infant)
Kornegay, Grady	Walker, Andrew J.
Kornegay, Grealy	Walker, Edgar E.
Kornegay, I. I.	Walker, Emma T.
Kornegay, Ike	Walker, Madison
Kornegay, Joseph E.	Walker, Reba S.
Kornegay, Kate	Watkins, Charles Thomas
Kornegay, Lula	Watson, Alice "Stevens"
Kornegay, Martha S.	Watson, Alla
Kornegay, Mary Jane	Watson, Henry
Kornegay, Robert A.	Watson, Jerry
Kornegay, S. C.	Watson, Laura
Kornegay, Spinks	Watson, Murf B.
Littleton, Minnie	Watson, Rene S.
Littleton, Thomas Ruben	Williams, Bert
Luce, Malvina Walker	Williams, Beulah F.
Martin, Margie Wyatt	Williams, Bobby Javis
Needham, W. S.	Williams, Clyde R.
Perkins, Lovie May	Williams, D. J.
Perkins, Oscar Lee	Williams, Dee
Perkins, Walker P.	Williams, Irene
Reveile, Artie B.	Williams, John J.
Reveile, James Henry	Williams, Lena Kathryn
Reveile, Mary Jane	Williams, Nancy
Reveile, William Henry	Wyatt, Clarence C.
Rogers, _____	Wyatt, J. C.
Rogers, _____	Wyatt, James Garry
Rutherford, Archibald	Wyatt, Jorden
Shafer, (infant)	Wyatt, Ola Dell
Shafer, Alex	Wyatt, Viola "Sugar"

Ruthie Mae Baggerly later married Samuel Johnson Griffin, Jr.. They had three children: Marvin Randall Griffin; Jackie B. Griffin (married Becky _____); and, James Nolan Griffin.

In addition, Ruthie Mae Baggerly had a daughter named Shirley _____. Shirley married Charles Stephens.

SAMUEL JOHNSON GRIFFIN, JR.
Samuel Johnson Griffin, Jr. was born in Franklin, Robertson County, Texas on April 14, 1909, the son of Samuel Johnson Griffin and wife Maggie Goodman. Samuel J. Griffin, Jr. married Ruthie Mae Baggerly (who previously had been married to Elmer J. Little). They had three children: Marvin Randall Griffin; Jackie B. Griffin (married Becky _____); and, James Nolan Griffin.

WILLIAM HENRY REVEILE
Grave identified by a relative. William Henry "Will" Reveile was born in Comanche County, Texas on April 13, 1873, the son of Leroy A. "Lee" Reveile (b. TX ca. 1848) and wife Mary J. "Mollie" Edwards. William Henry Reveile married Artie B. Setzer. William and Artie Reveile had nine children, including: (1) Samuel L. Reveile (b. abt 1901); (2) James Henry Reveile; (3) Ethel M. Reveile (b. abt 1906; married a Mr. Davis); and, (4) Claude Ergle Reveile (b. abt 1908--md Jettie Pearl Burrough); (5) Johnny Reveile; (6) Artie Reveile (md a Mr. Nelson); and (7) Floyd Reveile. William Henry Reveile died in Milam County, Texas on January 3, 1935.

In April of 2001, Linda Pierce Forsyth (lforsyth@tca.net) provided the following information on the Reveile family:

The Leroy Reveile who married Mollie Edward is an older brother of my gg-gm Sarah Alice Reveal. They were children of Joseph Reveal and Arvazena Williamson. Joseph Reveal was born abt. 1827 in Indiana, and wife Arvazena Williamson was born abt. 1823 in TN. They married June 13, 1844, in Greene Co., MO. They migrated to then-Milam Co. in the 1840s. All their children were born in TX (based on 1850 Milam and 1860 Bell censuses), so they must have arrived in Milam Co. soon after their wedding.

Arvazena Williamson died by the early 1860s, and Joseph Reveal "gave away" all his kids and got married again--to Elizabeth Sparks, b. 1836, a baby of the Runaway Scrape. I have just recently learned of at least 3 kids that they had.

So far, I don't know when and where Joseph or his 2 wives died or where they are buried. Elizabeth SPARKS's family is the same as that of Sparks, Bell Co. Another close family is Leatherman.

The surname has been spelled variously as Reveal, Reveil, Reviel, Reveile, etc. -- and that it is so rare that we are all kin.

ARTIE B. SETZER REVEILE
Artie B. Setzer was born near Davilla in Milam County, Texas, the daughter of John M. Setzer and wife Mary Virginia Taylor Setzer. Artie married William Henry Reveile in 1896. She died in Austin, Travis County, Texas on July 24, 1944.

JAMES HENRY REVEILE
Grave identified by a relative. James Henry Reveile was born in Bell County, Texas on July 11, 1902, the son of William Henry Reveile and wife Artie B. Setzer. James Henry Reveile died in Cameron, Texas on September 5, 1947.

Mary Jane "Mollie"
Edwards Reveile
Mary Jane "Mollie" Edwards was born in Alabama, the daughter of Hugh Edwards. Edwards family researcher Mel Bowers reports that Hugh H. Edwards (Mollie's father) had at least two wives. The name of the first is unknown, there were at least three children; Martha J. Edwards married William

signed the above writing for the purposes as attorney therein stated also came S. E. Griffin wife of Joseph Griffin, Gracia A. Denman, wife of A. H. Denman and Mary Jane Revile wife of L. R. Revile all of these parties to the foregoing deed or instrument of writing dated the day and year above written having been examined by me and apart from their Sid husband and the said instrument having been fully explained to them acknowledged the same to be their own act and deed and that they willingly signed sealed and delivered the same for the purposes uses and consideration therein stated and that they wish now to retract.
Seal In testimony whereof hereunto sign my name and affix my Notarized seal this 3rd day of Sept A.D. 1879.
J. M. Smith, JP & Ex Officio Notary Public M. C.
Filed for record at 8 o'clock A.M. Sept 4th 1879 and duly recorded at 3 o'clock P.M. Sept 6th A.D. 1879
J. C. Rogers, Clerk CCMC
By M. J. Rogers, Deputy

Mollie Edwards married Leroy A. "Lee" Reveile (b. TX abt 1847). Mollie and Lee had at least five children: (1) Hugh J. Reveile (b. abt 1871); (2) William Henry Reveile; (3) Lee A. Reveile (b. abt 1875); (4) Martha A. Reveile (b. abt 1878); and, (5) Elmo J. Reveile (b. abt 1893).

KATE "KATIE" CURRIE KORNEGAY
Kate "Katie" Currie was born in Texas on December 8, 1864, the daughter of Jim Currie and wife Celie Currie. Kate married William Spinks Kornegay around 1901. Kate died in Milam County, Texas on July 4, 1931.

WILLIAM SPINKS KORNEGAY
William Spinks Kornegay was born April 12, 1861 in Mississippi, the son of Robert A. Kornegay, Sr. and wife Sarah C. Needham. William Spinks Kornegay lived in Cameron, Texas where he owned and operated an ice house. He married four times: (1) Nancy Helen Ditto (daughter of Josiah Ditto and Elvira E. Henderson Ditto); (2) Kittie Ida Ditto (daughter of John Ditto and Mary L. Tate Ditto) in Milam County, Texas on June 28, 1891; (3) Kate "Katie" Currie; and, (4) Ruth Hensley. William Spinks Kornegay died in Milam County, Texas on January 19, 1944.

VICTORIA LESTER GREEN
Victoria Lester was born in Falls County, Texas. She married Jerry M. Green. They had two sons: (1) Jerry Clifton Green, b. October 30, 1897 (married Sallie Watson, d/o Murf B. Watson); and, (2) Thomas Jones "Tom" Green, b. August 3, 1899 (married Ellie Rogers). Victoria died in Cameron, Texas.

ISAAC "IKE" KORNEGAY
Isaac "Ike" Kornegay was born in Lauderdale County, Mississippi on April 8, 1857, the son of William Lewis Kornegay and wife Annie Heart. Ike was a farmer. He and wife Lula Kornegay had at least six children: (1) Edna Kornegay (b. abt 1895); (2) Joseph Kornegay (b. abt 1896); (3) Clayton Rupert Kornegay (1903-1963);(4) Grealy Kornegay; (5) Henry Kornegay (b. 1906); and, (6) Clyde Kornegay (b. 1908). Ike Kornegay died at Gause, Milam County, Texas on December 7, 1930.

Kornegay, Grady} 1898-1899

LULA KORNEGAY
Lula Kornegay (maiden name not known) was born in Mississippi in October of 1867. She was the wife of Isaac "Ike" Kornegay.

Kornegay, Grealy} 1901-02

Martha married Mr. Kornegay in Milam County, Texas on December 16, 1886. They had six children: (1) Clarence Kornegay; (2) Dolly Kornegay (married Robert Joseph Warren); (3) Valentine G. Kornegay; (4) Robert Arnold Kornegay, Jr. (married Bessie Myrtle Green); (5) Alex Williams Kornegay (married Lorene Carr); and, (6) George Dewey Kornegay (married Cordie Bessa).

JOSEPHINE WESTBROOK STEWART
Josephine Westbrook was born in Mississippi, the daughter of Ervin Westbrook and wife Rachel McCorra Walker. Josephine married James L. "Jim" Stewart.The Milano Gazette, Sat., Nov. 6, 1920 -- Death– Mrs. L. J. Stewart of Pin Oak Passes Away– Mrs. W. A. Belt, received word that her mother, Mrs. L. J. Stewart, age 69, had died near Gause. She had been sick only a short while but her condition became very critical and she died. Burial was at Pin Oak where others of her family are buried. Her sister, Mrs. Sallie Hensley of Houston was called, also Mrs. Edna Trigg of Denton. Mrs. Bussa, another sister failed to make connections and did not get to attend the burial.

The Milano Gazette, Sat., Nov. 13, 1920 -- Death– The Death of Mrs. L. J. Stewart of Pin Oak. News reached us on Thursday, Oct. 28th of the death of Mrs. Jim Stewart of Pin Oak. She leaves an aged mother, Grandma Westbrook, several brothers and sisters as follows: Albert Westbrook, Tom Westbrook of Liberty, Dick Westbrook of Kenedy, Mrs. Edna Trigg of Denton, Mrs. Sallie Hensley of Houston, Mrs. Helen Bussa of Louisiana. Her children: Lenard Stewart and Mrs. W. A. Belt of Oakdale and Ab Stewart of Pin Oak.

JAMES L. "JIM" STEWART
James L. "Jim" Stewart was born in Mississippi in April of 1842. He married Josephine Westbrook on December 29, 1869. They had eight children: (1) Minnie Stewart; (2) Erie Stewart ; (3) Almedia Stewart; (4) James E. "Jimmy" Stewart (b. 1877); (5) Leonard Stewart (b. 1880); (6) Alersay Stewart (b. 1883); (7) Vivian Stewart (b. 1885); and, (8) Albert Stewart (b. 1890).

ERIE STEWART COX
Erie Stewart was born in Texas, the daughter of James L. "Jim" Stewart and wife Josephine Westbrook. Erie Stewart married R. M. Cox, Jr. in Milam County, Texas on October 3, 1893. Erie and R. M. Cox, Jr. had two children: (1) Laura M. Cox (b. 1895) and, (2) Robert M. Cox (b. 1899).

Cox, _____
Died 1893/Baby Son
[marker could not be located in July of 2001]

Cox, _____
Died October 1, 1895/Aged 5 Weeks
Son of R. M. & Erie Cox

Stewart, Almedia} July 16, 1875-May 2, 1896
Dau. of Jas. and Josephine Stewart
Stewart, Minnie} November 6, 1871-June 20, 1883
Dau. of Jas. & Josephine Stewart

ELVIRA E. HENDERSON DITTO
Elvira E. Henderson was born in Georgia. She was the second wife of Josiah Ditto.

Josiah Ditto was born in Alabama on Oct. 10, 1832. He was the son of William Ditto (b. Dec. 13, 1806 in KY), the grandson of Josiah Ditto (1780-1823), and a first cousin to the John Ditto who is buried at Pin Oak Cemetery.

The first wife of Josiah Ditto (the younger) was Sarah Ann Tate, who he married on Dec. 20, 1855 in Marshall County, Alabama. Josiah and Sarah Ann had three children, all born in Alabama: (1) Lucy Jane "Jennie" Ditto (b. Nov. 29, 1858); (2) William "Billy" Ditto (b. Jan. 2, 1859, d. Sept. 2, 1866 in

MARGIE MAE WYATT GIBSON MARTIN
Magie Mae Wyatt was born March 10, 1927. She was the daughter of Clarence Wyatt and wife Ola Perkins.

Margie first married Joe Edd Gibson. They had four children: Barbara Sue Gibson; Larry Joe Gibson; Yvonne Lanell Gibson; and, Daniel Paul Gibson. Margie later married Clifford Joseph Martin.

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EDGAR E. "GENE" WALKER
Edgar E. "Gene" Walker was the son of Alfred S. Walker and wife Alice E. Sowers. Gene married Reba Pearl Shafer. He played baseball for a minor league team and later worked for the Texas Oil Company. Gene farmed and raised cattle, was a Mason and Shriner, and was active in the Milam County United Way. At the time of his death, Gene was a resident of Gause, Milam County, Texas. He died in Temple, Bell County, Texas.

REBA PEARL SHAFER WALKER
Reba Pearl Shafer was born in Gause, Milam County, Texas, the daughter of James Alex Shafer, Jr. and wife Mattie Lynn Williams. Reba married Edgar E. "Gene" Walker. She died in Robertson County, Texas.

MARY RENE SHAFER WATSON
Mary Rene Shafer was born in Gause, Texas, the daughter of James Alex Shafer, Jr. and wife Mattie Lynn Williams. Mary Rene Shafer married Murf Ben Watson.

MURF BENJAMIN WATSON
Murf Benjamin Watson was born in Franklin, Robertson County, Texas, the son of Jerry Watson and wife Laura C. Reynolds. Murf married twice.

Murf Watson first married Fannie Hudson Fisher. Fannie was born 2 Jul 1890 at Liberty in Milam County, Texas. She was the daughter of Thomas Benton Fisher and Sarah Evelyn Stewart. Murf and Fannie Watson had two daughters: (1) Lydia Watson (b. 30 Mar 1908 in Milam County, Texas; d. 23 Apr 2000 in Houston, Texas; md Charlie Farris); and, (2) Sally Florence Watson (b. 14 Nov 1910 in Gause, Milam County, Texas; d. 2 Dec 1995 in Porter, Montgomery County, Texas; md Jerry Clifford Green). Fannie Watson died 5 Jun 1913. She is buried in Milam County at Liberty Cemetery.

After Fannie's death, Murf Watson married Mary Rene Shafer. Murf died at his home in Humble, Harris County, Texas.

Some of this information was provided by Pamela Long (PamelaKLong@aol.com). Pamela is a descendant of Murf and Fannie Watson.

MARTHA MALINDA "KATE" WILLIAMS SHAFER
Kate Williams was the daughter of John Josiah Williams and Nancy A. Verser. Known to many as "Kate," she was born Martha Malinda Williams. Shortened versions of these given names (Mattie Lynn) were placed on her grave marker. Kate's grave marker shows that she was born in 1873, but a researcher reports that Kate and William D. "Dee" Williams were twins--both being born in Marshall County, Alabama on October 16, 1871.

Shafer, Murf} August 28, 1901-November 22, 1915

Shafer, Alex} February 13, 1911-November 24, 1915

JOHN HENSLEY DITTO
John Hensley Ditto was the son of John Henry Ditto and Ruby Hensley Ditto.

JOHN HENRY DITTO
John Henry Ditto was the son of John Ditto and Lucy P. Ditto.

John Henry Ditto married Ruby Hensley. Ruby was the daughter of Edward Howard Hensley and Sarah A. Westbrook.

John Henry Ditto and wife Ruby had at least one child: a son, John Hensley Ditto.

JOHN DITTO
John Ditto was born in Alabama in November of 1844. He was the son of James Ditto (1819-1870) and the grandson of Josiah Ditto (1780-1823). John was a first cousin to the Josiah Ditto who married Elvira E. Henderson.

John Ditto married Mary L. Tate in Marshall County, Alabama on August 11, 1865. Mary was born in Alabama about 1845. John and Mary had four children: (1) Martha Elizabeth Ditto (b. abt 1868); (2) Thomas Harvey Ditto (b. about 1870; (3) Kittie Ida Ditto (b. abt 1874--md William Spinks Kornegay); and, (4) Dora Alice Ditto.

By 1880 John Ditto was married to Lucy P. Ditto (maiden name not known--b. TX 1850). John and Lucy had at least five children: (1) Keziah Ditto (b. abt 1880); (2) Richard Hubbard Ditto (b. abt 1882); (3) John Henry Ditto; (4) Fannie E. Ditto (b. abt 1889); and, (5) Lucy C. Ditto (b. abt 1891).

Much of the Ditto family information was furnished by Robert Hood Ditto.

WALTER D. "DEE" WILLIAMS
Walter D. "Dee" Williams was the son of John Josiah Williams and wife Nancy A. Verser Williams. Dee's grave marker shows that he was born in 1872, but a researcher reports that Dee and Martha Malinda "Kate" Williams were twins--both being born on October 16, 1871 in Marshall County, Alabama.

Dee Williams married Cora Lee Watson in Milam County, Texas on February 7, 1894. Cora Watson was born in Arkansas on February 16, 1877, the daughter of Jerry Watson and wife Laura C. Reynolds. Dee and Cora had at least two children: (1) Ray Floyd Williams (b. 1895); and, (2) Joe Bailey Williams (b. 1897).

Cora died at Gause, Milam County, Texas on April 28, 1954; she is buried at Gause City Cemetery. Dee Williams died in Milam County on January 21, 1936; he is buried in Milam County at Pin Oak Cemetery.

JERRY WATSON
Jerry Watson was born in Atlanta, Georgia. He was a farmer. Jerry and wife Laura C. Reynolds (or perhaps Runnells) had at least seven children:(1) William Thomas Watson (b. 1867 - md Lizzie Threadgill); (2) Phenia Florence Watson (b. 1871 - md R. E. Smith); (3) Henry Watson; (4) Cora Lee Watson (b. 1877 - md Walter Dee Williams); (5) Mary Watson (b. 1880); (6) Murf Benjamin Watson; and, (7) Lydia Watson (b. 1883 - md a Mr. Cockerham). Jerry Watson died at Rockdale, Milam County, Texas.

Herring Grantham and Piercy Rainer had ten children:
1. Chelly Jane Grantham (b. 1828 in Wayne County, NC);
2. Andia Moriah Grantham (b. 1832 in Wayne County, NC; d. before 1860 in Pike County, AL);
3. James Frederick Grantham (b. 1834 in Wayne County, NC);
4. Blany Frederick Grantham (b. 1836 in Pike County, AL; was killed in the Civil War in 1861);
5. Y. W. Grantham (more about him below);
6. Hannah Adoline Grantham (b. 1841 in Pike County, AL);
7. Joel Herring Grantham (b. 1843 in Pike County, AL; served in Company I, 18th Alabama Infantry, C.S.A.; d. 1917 in Houston County, AL; he is Joel Lee Grantham's great grandfather);
8. James Frederick Grantham (the second son given this name, b. 1845 in Pike County, AL; d. in Montgomery Co. AL);
9. Leonidas Theodore "Linch" Grantham (b. 1846 in Pike County, AL);
10. David Atcheson Grantham (b. abt. 1847-48; d. in Montgomery County, AL).

Y. W. Grantham left Alabama with his mother's brother, Kenan C. Rainer, before 1860. Kenan settled in Coryell County, Texas. During the Civil War, Y. W. Grantham served in Co. K of the 4th Texas Cavalry, C.S.A.

Y. W. Grantham married Eliza Davidson. They had a daughter: Elizabeth Jane Grantham (b. abt 1869).

Elizabeth Jane Grantham married John Frank Fisher. They had six children:

1-Reebe Fisher married Homer Nabors and they had the following children: (i) Paul Nabors; (ii) Hortense Nabors Tumlinson; (iii) Francis Nabors; (iv) Bob Nabors; and, (v) Kenneth Nabors;
2- Frank Blaine "Man" Fisher married Elinor Massey and they had two children: (i) Harold Blaine Fisher (married Opal Blackmon of Rockdale, Milam County, Texas; they raised children that Opal had by a prior marriage, and additionally had five children of their own); and, (ii) Clyde Laverne Fisher (he first married Joyce Marie Cass and they had a son, Dennis Wayne Fisher; Clyde Laverne Fisher later married Nora Lee Watson of Rockdale and they had Clyde Laverne Fisher Jr., Carol Elaine Fisher Webb, Brenda Fisher Hodges, James Richard Fisher, Robert Lee Fisher, Joanne Fisher Condrey and Nancy Denise Fisher Garrison).
Frank Blaine "Man" Fisher later married Mildred Goode. They had two children: (i) Mary Beth Fisher (married William Zack Fall); and, (ii) Robbie Lee Fisher (married Donald Frank Vestal).
3-Ab Fisher did not marry;
4-Thomas Youngblood Fisher married and had two children;
5-Beatrice Fisher; and,
6-Bernice Fisher.

Y. W. Grantham died on July 22, 1871. A descendant wrote the following: "Y. W. Grantham was shot from his horse while returning from voting. (I have been told that he voted the wrong way on the issue to move the Texas capital from Washington on the Brazos)."

MINNIE HARN LITTLETON
Minnie M. Harn was born in Milam County, Texas, the daughter of North Harn (b. Alabama) and wife Martha Hale Harn Carter. Minnie M. Harn married Ruben Thomas Littleton.

RUBEN THOMAS LITTLETON
Ruben Thomas Littleton was born in Gause, Milam County, Texas on June 13, 1864, the son of Thomas Littleton (b. LA) and wife Susan Matilda Huckaby (b. GA 1839; d. 1923, buried Gause, Texas City Cemetery). The proper order of his given names is uncertain: in most records (census, marriage, etc.) he is listed as Ruben T. Littleton; however, the name Thomas is listed first on his death certificate. Ruben T. Littleton married Minnie M. Harn in Milam County, Texas on April 24, 1895. They apparently had no children. Mr. Littleton died in Milam County on July 12, 1945. He is buried to the right of his wife (as you look into the cemetery at the writing on her stone). Information on the grave's location was provided by Christie Wyman; Mr. Littleton was Christie's uncle.

DOLL JAVIS WILLIAMS
Doll Javis Williams was the son of John Josiah Williams and Nancy A. Verser Williams. Doll was sometimes known as D. J. Williams. Doll's grave marker shows that he was born on September 6, 1874, but a researcher reports that Doll was born in July of 1873 in Marshall County, Alabama.

Doll came to Milam County, Texas with his parents. It was in Milam County that Doll, on January 16, 1896, married Lena Turney. Lena was born at Hanover, Milam County, Texas in 1876, the daughter of Robert N. "Bob" Turney and Saphronia Belle "Belle" Kirk Turney.

Doll and Lena had at least two children: (1) Elma Williams (b. in Milam County in November of 1896); and, (2) Clyde Robert Williams. Lena died in 1909 and is buried in Milam County at Oxsheer-Smith Cemetery.

Doll Williams later married Irene Best. He died in Austin, Travis County, Texas on July 5, 1950 and is buried in Milam County at Pin Oak Cemetery.

IRENE BEST WILLIAMS
Irene Best was born in Jasper County, Texas, the daughter of A. P. Best and wife Malinda Lewis. Irene married Dolly J. Williams. Irene died in Cameron, Texas.

JOHN JOSIAH "BULL" WILLIAMS
John Josiah "Bull" Williams was born in July of 1845 at Parches Cove, near Union Grove, Marshall County, Alabama. He was the son of Oran D. Williams and wife Malinda Burnett. Bull Williams was actually born Josiah John Williams, but at some point he reversed the order of his given names.

Bull Williams was a large man--that being the source of his nickname. He married Nancy A. Verser in Marshall County, Alabama on March 7, 1866. They had five children: (1) Mary E. Williams (b. in Marshall Co., AL on November 14, 1867; md Wesley P. McGehee; d. in Smith Co., TX on February 6, 1942); (2) William Bertram "Bert" Williams; (3) Walter D. "Dee" Williams; (4) Martha Malinda "Kate" Williams; and, (5) Doll J. Williams.

Bull Williams died on September 14, 1919 in the Pin Oak community of Milam County, Texas and is buried at Pin Oak Cemetery. His farm adjoined the cemetery to the north, being the land that is crossed to get to the cemetery from FM 2095.

NANCY A. VERSER WILLIAMS
Nancy A. Verser was born in Alabama, the daughter of Macon Addison Verser (who was a farmer and Baptist minister) and wife Irene Reece. Contrary to the date on Nancy's cemetery marker, she reportedly was born in March of 1839. Nancy married John J. Williams in Marshall County, Alabama on March 7, 1866.

WILLIAM BERTRAM "BERT" WILLIAMS
William Bertram "Bert" Williams was born in Marshall County, Alabama, the son of John Josiah Williams and Nancy A. Verser Williams. Bert's grave marker shows that he was born on April 16, 1870, but a researcher reports that Bert was born in 1869.

Bert did not marry. He died in Travis County, Texas on December 21, 1938 and is buried in Milam County, Texas at Pin Oak Cemetery.

MARY M. VAUGHN
Mary M. Vaughn was born about 1817 in Virginia. James Alexander Shafer, Sr. is her son-in-law.

JAMES ALEXANDER SHAFER, SR.
James Alexander Shafer, Sr. was born in Alabama about 1843, the son of William and Agnes Shafer (formerly Shaver). James Alexander Shafer, Sr. settled in the Pin Oak community in 1860. He married Litius "Lettie" Vaughn. She was born in Alabama and was the daughter of Mary M. Vaughn. James

Jane Ditto married Stephen Davidson in Morgan County, Alabama on November 8, 1835. The photo of Stephen and Jane Davidson was furnished by Jerry Southerland (jsouther55@sbcglobal.net).

SUSAN LUCY RUTHERFORD GINNINGS CRAIG

Susan Lucy Rutherford was born in Alabama, the daughter of Archibald Rutherford and Sara Ellen Rutherford. Susan first married a Mr. Ginnings. She married John R. Craig (b. TX abt 1848) in Milam County, Texas on July 29, 1879. Two children with the surname Craig are listed on the 1880 Census as being John R. Craig's children but are perhaps the product of the Ginnings marriage: (1)Huey A. Craig (b. AL abt 1876), and (2) Ellen Craig (b. AL abt 1877). The children may have been adopted by Mr. Craig. Susan Lucy Rutherford Ginnings Craig died in Jefferson County, Texas.

ARCHIBALD RUTHERFORD

Archibald Rutherford was born March 25, 1817 in Jackson County, Alabama, the son of James and Susan Young Rutherford. It was in Jackson County that Archibald Rutherford married Sara Ellen (surname not known). Sara Ellen Rutherford died during the trip to Texas and is buried at Honey Grove, Fannin County, Texas. Archibald and Sara Ellen Rutherford had six children: (1) Mary Elizabeth Rutherford (md a Mr. Rutherford); (2) Sarah Ellen Rutherford (md a Mr. Caldwell and later md a Mr. Davis); (3) Malinda Jane Rutherford; (4) Susan Lucy Rutherford (also buried at Pin Oak Cemetery); (5) America Rutherford (b. Arkansas ca. 1861--md a Mr. Long); and, (6) James Rutherford. Archibald Rutherford lived at Gause, Milam County, Texas, where he died in 1890. Because the location of Archibald Rutherford's grave is not known, his name is listed with daughter Susan.

CHARLES THOMAS WATKINS

May 3, 1927-November 28, 1933 Charles Thomas Watkins was the son of Jack Watkins and wife Annie Young Watkins. Annie was a sister to Ruby Lou Young Shafer.

CHARLOTTE FAUBION

Charlotte Faubion was born about 1820 in Tennessee. She was the wife of William M. Faubion.

WILLIAM M. FAUBION

William M. Faubion was born in Tennessee in April of 1820. He and his first wife Charlotte had at least six children: (1) Lenora J. Faubion (b. TN abt 1844); (2) Thomas Faubion (b. TN abt 1847); (3) John A. Faubion (md Mollie E. Beavers); (4) Oscar Faubion (md Julia E. Livingston); (5) James D. "Bud" Faubion; and, (6) Willie Faubion. William M. Faubion married Mrs. Anna Gee (b. 1861) in Milam County, Texas on April 16, 1895.

JOHN H. ALLEY

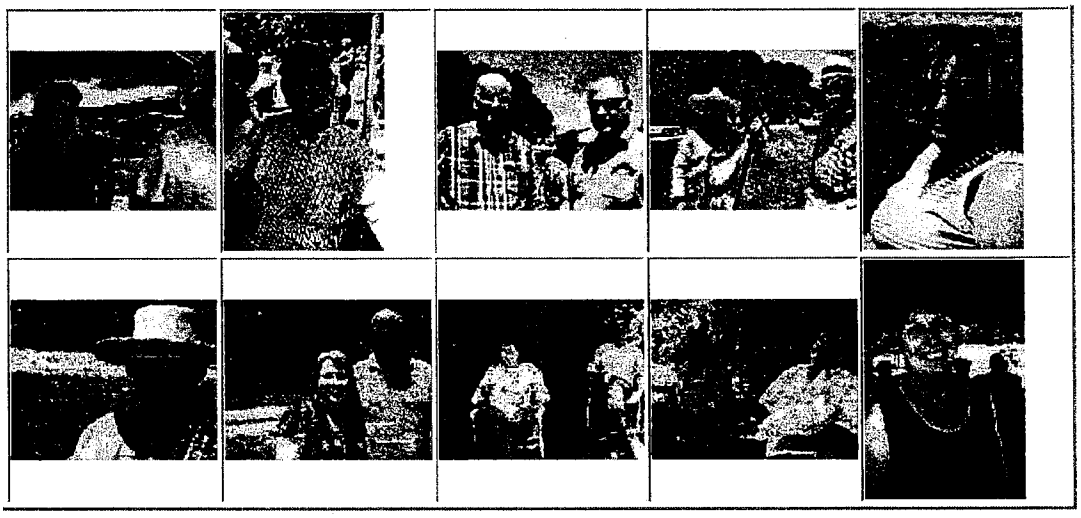
John H. Alley was born on November 27, 1829. He is believed to have been a native of either Alabama or Mississippi.

John married Mary Elizabeth Stewart in Milam County, Texas on July 12, 1860. Mary was born in Rome, Georgia on January 18, 1845. She was the daughter of Robert and Freelove Cornett Stewart.

John and Mary Stewart Alley had three children. One child died an infant. The other two were Martha Bowlin Euzene "Mattie" Alley (married John Wesley Lantrip) and Sarah F. Alley (married Thomas B. Fowler).

During the Civil War, John served the Confederacy as a private in the Milam Guards. John later served in Sibley's Brigade. John came home from the War a sickly man and never fully recovered. He died on February 23, 1869.

After John's death, Mary Stewart Alley ran a store in Hanover, Texas (near Pin Oak). Mary died in Milam County on October 28, 1918. She is buried in Milam County at Liberty Cemetery.



CIVIL WAR MARKER DEDICATION
Sgt. John Henry Alley
Company E, 4th Texas Cavalry, C.S.A.
May 18, 2003
Pin Oak Cemetery, Milam County, Texas

102.02.004.01 Faubion, John A. M26TN
102.02.004.02 Faubion, Mollie E. F22AL
--J. A. Faubion md Mollie E. Beavers 1 Dec 1875
102.02.004.04 Goehner, Sebastian M53** b. Wurtenburg
102.02.006.01 Needham, William S. M23MS
102.02.006.02 Needham, Henrietta F65GA Mother
102.02.006.03 Row, Mary E. F44AL Aunt
102.02.007.01 Faubion, William M60TN
102.02.007.02 Faubion, Charlotte F60TN
102.02.008.01 Faubion, Oscar M23TN
102.02.008.02 Faubion, Julia F20TX
--O. D. Faubion md Julia E. Livingston 1 Dec 1875
102.02.009.01 Moore, Charles C. M31GA
102.02.009.02 Moore, Emily F21TX
102.02.009.04 Brown, Thomas E. M20TX
102.02.010.01 Dollar, James M. M40AL Physician
102.02.010.02 Dollar, Sue A. F45AL
102.02.011.01 Womble, William M35AL Druggist Grocer
102.02.011.02 Womble, Mary F29TX
102.03.00A.01 Cox, John M27MS
102.03.00B.02 Cox, Mary A. F23TN
102.06.00A.01 McElvey, John M35AR
102.06.00A.02 McElvey, Ann F37** **b.England
102.06.00A.05 Shafer, John A. M16TX Step-Son
102.06.00A.06 Rigby, Frank M27MO
102.06.00B.01 Stewart, Noah M30GA
102.06.00B.02 Stewart, Elizabeth F30MS
102.06.00B.03 Stewart, William H. M01TX
102.07.059.01 Luce, Zephemiah M40MO
102.07.059.02 Luce, Melvina F25GA
102.07.059.08 Pate, Mary F20TX Sister-In-Law
102.07.060.01 Carlton, Thomas A. M27KY Farmer & Bailiff
102.07.060.02 Carlton, Senie F23MS
102.07.060.03 Herron, James L. M20MS
102.07.061.01 Goodrum, James L. M31MS
102.07.061.02 Goodrum, Eliza F24MS
102.07.062.01 Bailey, Winfred G. M39TX
102.07.062.02 Bailey, Mattie F36LA
102.07.063.01 Rowe, Pinkney M30SC
102.07.063.02 Rowe, Theodocia F24TX
102.07.064.01 McLaren, John M28TX
102.07.064.02 McLaren, Mattie F19LA
102.08.068.01 Luce, Joseph M52MO
102.08.068.02 Luce, Virginia F45VA
102.08.068.08 Fuller, Susan E. F04TX Granddaughter
102.08.068.09 Roddy, William M31AL Boarder
102.08.069.01 Folley, John B. M32IN
102.08.069.02 Bowers, Ann F20TX Boarder
102.08.069.04 Bass, Alonzo M26AL No Residence
102.08.070.01 Pounds, Elisabeth F35GA
102.11.00A.01 Williams, James W. M60SC
102.11.00A.02 Williams, Mildred T. F46GA
102.14.127.01 Williams, John W. M34AL
102.14.127.02 Williams, Nancy A. F41AL
102.14.128.01 Alton, Jack M61TN
102.14.130.01 Holley, John M38AL
102.14.130.02 Holley, Sarah E. M35TX

102.18.159.02 Eudy, Mary F62NC
102.18.159.03 Light, William H. M12AL Cousin
102.18.160.01 York, Lelerties M30MS
102.18.160.02 York, Margaret E. F25AL
102.18.161.01 Clark, Matilda F46MS
102.18.161.07 Stewart, Luella F22LA Daughter
102.18.162.01 Shafer, Elisha M46AL
102.18.162.02 Shafer, Lovina F40AL
102.18.163.01 Davidson, Henry M32AL
102.18.163.02 Davidson, Emma F26LA
-Henry Davidson md Emmaliza Lockley 23 Jun 1874
102.18.163.06 Butts, Nancy F65GA Aunt
102.18.163.07 Williams, David M22AL
102.18.164.01 Brooks, John M27MS
102.18.164.02 Brooks, Bethia F18TX
102.18.165.01 Ditto, William M45AL
102.18.165.02 Ditto, Mary F26TN
-William Ditto md Mrs. Mary A. Stewart 1 Jan 1879
102.18.165.04 Stewart, Frank M08TX Step-Son
102.18.166.01 Davidson, Jane F64AL
102.18.166.02 Grantham, Eliza F11TX Granddaughter
102.18.166.03 Davidson, Willis H. M05TX Grandson
102.18.166.04 Webster, Edward M59AL Boarder/Carpenter
102.18.166.05 Ditto, Davis M20AL
102.19.00A.01 Ditto, Josiah M48AL
102.19.00A.02 Ditto, Elvira E. F48GA
102.20.179.01 Cox, Richard P. M36MS Farmer & Justice
102.20.179.02 Cox, Catherine F32GA
102.20.180.01 Cox, Shackelford M44MS
102.20.180.02 Cox, Mary R. F35AL
102.20.180.09 Livingston, Florence F22AL Sister-In-Law
102.20.181.03 Martin, John E. M17TX w/ C. Wilson (Black)
102.20.182.01 Faubion, Thomas M32TN
102.20.182.02 Faubion, Luella F23TN
102.20.183.01 Bightl, Albert M26TN
102.20.183.02 Ellis, William M26PA
102.20.184.01 Blacklock, Benjamin M37KY
102.20.184.02 Blacklock, Mary E. F27MS
102.20.185.01 Gillam, James M54MS
102.20.186.01 Walker, Madison M27GA
102.20.186.02 Walker, Emma T. F21TX
102.20.187.01 Kornegay, Robert M. M42MS
102.20.187.02 Kornegay, Ella F26GA
-R. A. Kornegay md Ella E. Adams 29 Sep 1878
102.20.188.01 Craig, John R. M32TX
102.20.188.02 Craig, Susan L. F25AL
-J. R. Craig md Mrs. S. L. Ginnings 29 Jul 1879
102.20.188.05 Rutherford, America F19AR Sister-In-Law
102.24.224.01 Shafer, Alexander M37AL
102.24.224.04 Vaughn, Mary A. F49VA Mother-In-Law
102.24.224.05 Hackney, Mary E. F25AL Cousin
102.24.224.06 Hays, Richard M35KY
102.24.224.07 Fowler, Thomas M16TX
102.24.226.01 Tucker, Elijah M23AR
102.25.226.02 Tucker, Hulda F20OH
102.25.227.01 Spinks, William M34AL
102.25.227.02 Spinks, Jennie F35AL

102.39.349.04 Hobson, Ann E. F56TN Mother-In-Law
102.39.349.05 Hobson, Mollie F23TX Sister-In-Law
102.39.349.06 Hobson, Texana F21TX Sister-In-Law
102.39.350.01 Shafer, William M45AL
102.39.350.02 Shafer, Ann F27TX
-W. L. Shafer md Anna Eliza Hobson 6 Dec 1877
102.39.351.01 Hobson, John M33TX
102.39.351.02 Hobson, Martha F27AL
102.39.352.01 Hobson, Perry M27TX
102.39.352.02 Hobson, Martha J. F20TX
102.39.352.04 Gill, Henry M22--
102.43.389.01 Morgan, William A. M45AL
102.43.389.02 Morgan, Catherine F42AL
102.43.389.03 Morgan, Barto M18AL
102.43.389.04 Morgan, William T. M15AL
102.43.389.05 Morgan, Julia L. F13AL
102.43.389.06 Morgan, Rebecca A. F12AL
102.43.389.07 Morgan, Emma F10AL
102.43.389.08 Morgan, John B. M04TX
102.43.389.09 Morgan, Johny Jackson M04TX
102.43.389.10 Morgan, George W. M07AL
102.43.389.11 Morgan, Fannie R. F08AL

EL CAMINO REAL TRAIL

Overview:

The El Camino Real is one of nineteen national historic trails in the United States. Each of the nineteen trails was designated because of its high historical significance. National Historic Trails are designated only by an act of Congress. The El Camino Real de los Tejas spans 2580 miles across 40 counties and 2 parishes and 2 states and was established by U. S. Congress in 2004. The Trail through Milam County features several sites designated as significant by the National Park Service. The area to be affected by the proposed reservoir is critical to the history of the Trail. Sugarloaf Mountain is likely the site of a Rancheria Grande, a fact which could not be proved if the area is under water. Should any part of the Trail be placed under water, evidence of its historical significance would be gone forever.

Little River Off-Channel Reservoir

El Camino Real de los Tejas
NATIONAL HISTORIC TRAIL ASSOCIATION

Board of Directors
George Altgelt
Maureen Brown
Linda Curtis-Sparks
Gary Dunnam
Chief Rufus Davis
Lucile Estell
Joy Graham
John Kisalus
Duke Lyons
Henry Mayo
Carl Mica
Irene Ramos
Christopher Talbot
Maureen Winn
Sarah Zenaida Gould

Executive Director
Steven Gonzales

Contact
P.O. Box 41286
Austin, Texas
78704
P: 512-850-9073
F: 512-451-3110

June 20, 2015

Brazos G Regional Water Planning Group
Attn: Mr. Wayne Wilson, Chairman
4600 Cobbs Drive
Waco, Texas 76714

Subject: Proposed Little River Off-Channel Reservoir's Effect on El Camino Real de los Tejas National Historic Trail

Dear Chairman Wilson and Commissioners

This letter serves as notice to the Brazos G Regional Water Planning Group about El Camino Real de los Tejas National Historic Trail Association's opposition to the proposed Little River Off-Channel Reservoir in Milam County, Texas.

El Camino Real de los Tejas means "The Royal Road of the Tejas Indians." Historically, the road connected Mexico City to Los Adaes, the first capital of Texas. This allowed Spanish influence to spread into the province. The road also allowed Anglo settlers to head west into Texas in the 1800s, and it was a major artery of trade and culture. The trail created the cultural diversity of Texas that we know today.

On October 18, 2004, El Camino Real de los Tejas was designated as a National Historic Trail and part of the National Trails System. This makes El Camino Real part of a unique group of trails that have been deemed "nationally significant" by the US Congress. So if you can imagine all of the history of our country, only nineteen events have been deemed "nationally significant," and this trail that led to the founding of Texas is one of them!

El Camino Real de los Tejas National Historic Trail Association is an advocacy group that seeks to protect the historic integrity of the trail, to educate the public about its significance, and to promote resource development, interpretation, and tourism along its path.

We work closely with the National Park Service, Texas Historic Commission, Texas Parks and Wildlife Department, the Texas Department of Transportation and others to identify, protect, and develop the trail.

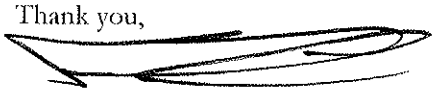
The proposed Little River Off-Channel Reservoir would inundate a stretch of El Camino Real de los Tejas National Historic Trail in Milam County, in the vicinity of Gause, Texas. This action would forever alter a nationally significant roadway and destroy an elemental part of our state's history. The Camino Real led to the founding of Texas. In fact, it is easy to say that we would not be calling Texas "Texas" without it.

Therefore, our association, along with the citizens and elected representatives of Milam County, ask that you reconsider this proposed inundation, as we hope that you will see that

the project will do great harm to this irreplaceabale historic resource.

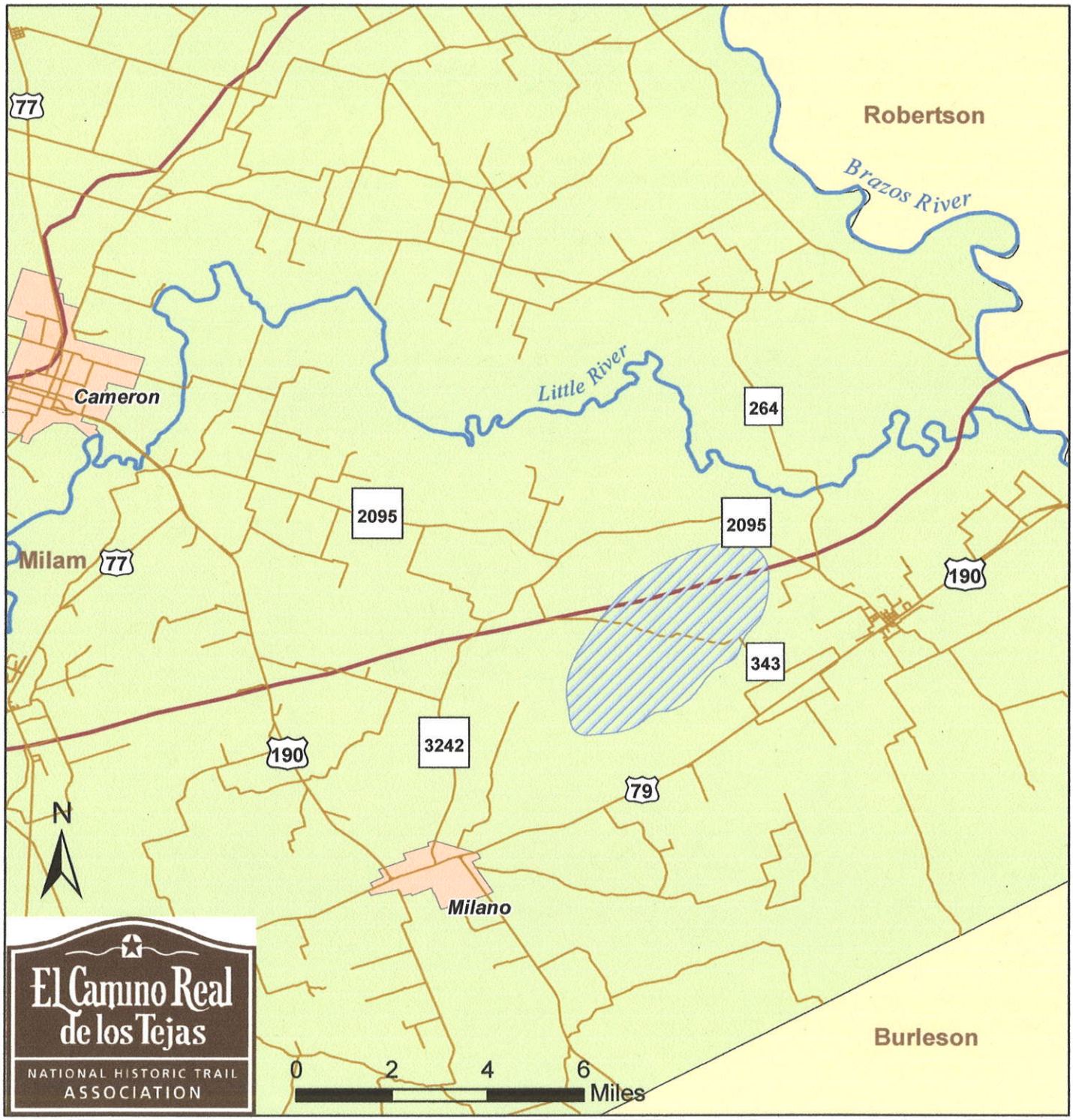
I thank you for your time and I ask that you not allow the road that led to the founding of Texas to be forgotten.

Thank you,



Steven Gonzales
Executive Director

Proposed Little River Reservoir in Milam County, Texas



Legend

- El Camino Real de los Tejas NHT
- Roads
- Major Waterways
- Proposed Off-Channel Reservoir
- Major Cities
- Milam County

Source:
Spatial extent of proposed reservoir taken from image on Cameron Herald online article on 24 April 2015.
http://www.cameronherald.com/news/article_cff74554-e4ec-11e4-aa1d-4f6cbcde1e14.html

Map by Nathan Garza
24 April 2015

FAMILY LAND HERITAGE

Overview:

The Texas Department of Agriculture recognizes families across the state through the Family Land Heritage Program. This designation denotes that their property has been a continuous agricultural operation for over 100 years. Several families have or are in progress of attaining this significant historical designation.

- Shafer Farms (105 years) – Honored 2010
- Arnold Kornegay (134 years) – Honored 1998
- Joe Hobbs (100+ years) – in progress
- Willard & Joy Kornegay (134 years) – in progress
- Judy & Joseph Marks (133 years) – in progress
- Melvin & Loretta Wall (101 years) – in progress
- Virgil Wall (100+ years) – in progress
- Gerald & Joan Wise (100 years)– In progress
- Harold C. Shafer (100 years) – in progress

Century old farms and ranches should never be taken from private landowners!

Little River Off-Channel Reservoir

TEXAS DEPARTMENT OF AGRICULTURE

TODD STAPLES
COMMISSIONER

September 30, 2010

Elaine Baumann
10530 FM 2095
Gause, TX 77857

Dear Mrs. Baumann:

Thank you for your interest in the Texas Department of Agriculture's Family Land Heritage Program (FLH). It is a great honor to recognize families who have continued their farming and ranching heritage down through the generations.

The Family Land Heritage Program began in 1974 and has honored more than 4,400 farms and ranches in 233 counties that have been in continuous agricultural operation by the same family for 100 years or more. We also recognize eligible farms and ranches for reaching 150-and 200-year milestones.

The enclosed FLH application explains what is needed to apply and document ownership of the property over the last 100 years or more. Please include on the application or on an attached sheet, the phonetic pronunciation of the farm or ranch as well as all owners/co-owners of the property.

If you have any questions or need assistance with the application, please contact me at (512) 463-3285 or lance.williams@texasagriculture.gov. It will be an honor for us to recognize the hard work of your family for their contributions to Texas and the state's agricultural industry.

Sincerely,

Lance T. Williams
Producer Relations Specialist

LTW/jg
Enclosure

P.O. Box 12847 Austin, Texas 78711 (512) 463-7476 Fax: (888) 223-8861
www.TexasAgriculture.gov

SHAFER FARM

Milam County

One mile west of Gause on FM 2095

Founded in: 1910
Founder: John Frank Shafer, Sr.
Current Owners: Watson Hubert Shafer and Elaine Shafer Baumann

John Frank Shafer, Sr., whose parents came to Texas from Alabama, was born in the Pin Oak Community, near Gause, in Milam County on September 23, 1877. He married Mary Zola Watson in 1896, and to this union was born eleven children – Alford, Murf, Lettie Mae, Laura Faye, John Frank, Jr., Grace Lee, Alex, Homer Clay, Bob Benjamin, Shack Thomas, and Mary Rene.

John Frank, Sr. purchased 20 ¼ acres of land from James A. and Olga Pate in 1910. John Frank and Zola raised their children on this farm where they had cattle, chickens, hogs, corn and fruit .In 1920 he acquired an additional 50 acres which he used for the same purposes.

Zola Shafer died in 1928. John Frank, Sr. later married Johnnie Belle Goode, and to this union was born two daughters, Billy Jean and Shirley Ann. John Frank continued to farm the land raising the aforementioned.

When John Frank Shafer, Sr. died, in 1940, the land was sold to E.E. Walker and wife Reba Shafer Walker. who was John Frank Sr.'s. niece. The same farm produce and livestock were raised on the land.

In 1943, Ruby L. Shafer, wife of John Frank Shafer, Jr., purchased the land. They continued to raise the same livestock and crops and later added coastal Bermuda grass in order to provide hay for the livestock. John Frank, Jr. died in 1969 and Ruby continued to maintain the farm.

Ruby died in 2000. The land was passed on to Ruby and John Frank's two children Watson Hubert Shafer and Elaine Shafer Baumann. They raise cattle and hay on the Shafer Farm, maintain the family barn, and maintain their Grandparent's and Parent's homes. They are active in the Milam County Farm Service Agency, Milam County Extension Service and the Farm Bureau.

Acres in original parcel: 20 ¼
Crops or livestock raised: 1910 – cattle, hogs chickens, corn, fruit

As told by Elaine Shafer Baumann, granddaughter of the founder

Texas Department of Agriculture
Family Land Heritage Program
Shafer Farms
Recognized November 3, 2011

Family Band Heritage Ceremony

36th Annual

FAMILY LAND HERITAGE CEREMONY

Thursday, November 3, 2011
Texas State Capitol – House Chamber
11 a.m. Luncheon, 1:30 p.m. Ceremony

The favor of a reply is requested on or before October 3, 2011.

Milam Co. - Shafer Farm
County and Name of Property

Watson Hubert Shafer
Name of Family Member Accepting the Certificate

Elaine Shafer Baumann
Name of Family Member Accepting the Certificate

Total Number of People Attending the Ceremony _____ *(Limit 10 guests)*
Total Number of People Attending the Luncheon _____ *(Limit 10 guests)*

PETITIONS

Overview:

Supporters disseminated hard copy and online petitions. Total numbers supporting our cause are listed below:

- Hard Copy:
  - 1,397 hand written signatures
- Change.org Petition:
  - 1,045 (as of August 16, 2015)
- **GRAND TOTAL: 2,442 SIGNATURES**

The petition on Change.org allowed a space for testimonies, which are included as documentation.

Little River Off-Channel Reservoir

change.org

Recipient: The Brazos G, Region H, or any other Water Planning Group

Letter: Greetings,

We, the undersigned citizens of Milam and friends and supporters declare our support for private property rights and our opposition to the Brazos G Water Planning Group and any future attempts by other water planning groups to seize private property in our counties.

Comments

Name	Location	Date	Comment
Arlene Schroeder	Yorktown, TX	2015-06-18	My great-great-grandfather John H. Alley, a veteran of the War Between the States, is buried in Pin Oak Cemetery, a beautiful and solemn place of final rest. It would be a sin to flood it, as well as all the fertile farmland owned by Milam County families for generations. Leave the land alone. Don't destroy our vital history.
Gloria Frey	Gause, TX	2015-06-18	Gause is my home and I know these people that will lose their land. I don't like the plan not one bit.
Amanda Sulzbach	Spring, TX	2015-06-18	My family owns part of the land that will be flooded.
Norma Schendel	Yorktown, TX	2015-06-18	I have an ancestor buried in Pin Oak Cemetery and don't wish to see the area flooded!!
Robert Gaston	Leander, TX	2015-06-18	I want to help my friends to stop the Little River OCR.
Andrew Holcombe	Temple, TX	2015-06-18	The people whose land will be condemned do not want this project
Janet pilkey	Gause, TX	2015-06-18	you are tring to take my home and my husbands family's land and homes
Mary miller	Gause, TX	2015-06-18	Please Stop the Little River Off-Channel Reservoir.
keisha strelsky	Gause, TX	2015-06-18	My family is the kornegays and this will flood our family land thats been ours for over 100 year
Michele Williams	Pineland, TX	2015-06-18	I have family that lives there and own some of the land and I hope it doesn't get took away from them they have cattle they live there life around ∀
Billy Kornegay	Kerrville, TX	2015-06-18	This is my family land that will b under. This land had been in my family for over 100 yrs.
Billy lange	Brenham, TX	2015-06-18	My family has a long and lasting history in the area. Land is not made...it is earned, and when it's gone it cannot be returned in this case. Many families in the area depend on their land for income and other needs that benefit their families, present and futures to come. Don't let the emmediate needs destroy the needs of the future generations.
Sheila Carter	Montgomery, TX	2015-06-18	I have a Grandfather that has a lot of Brahma Bulls and other cattle on his Ranch. This will effect him terribly!!
Teresa montez	Brenham, TX	2015-06-18	I was raised in Cameron Texas, and I disagree with this "law" .
Loretta Wall	Gause, TX	2015-06-18	I'm signing because our family home and all of our property will be covered in water from this reservoir and my children and grandchildren will lose their inheritance!
Janice Hall	Denton, TX	2015-06-18	This would take my family's land
Stephanie Wall	Austin, TX	2015-06-18	Our family's ranch and near future home lies in the direct path of this proposed reservoir. This is a beautiful area of land filled with wild life, natural resources, and historical connections that should be preserved, not destroyed.
Monty Kuykendall	Cameron, TX	2015-06-18	I don't believe it's right or just to take this land and so many good peoples livelihoods away.
Janice Kornegay	Arlington, TX	2015-06-18	This is my families land
Zackary Burks	Cameron, TX	2015-06-18	I care
Micah Simmons	Buckholts, TX	2015-06-18	Its a terrible place to put a reservoir.

Name	Location	Date	Comment
Julie kornegaY	Spring, TX	2015-06-18	This land has been in my family for over 100 years it is beautiful and untouched and has a lot of historical value. I hope to eventually move to this land that has been in my family for generations.
Jeri Clark	Bacliff, TX	2015-06-18	I remember going to my mom's family land as a kid! it would be sad not to be able to take my grandkids and share part of my moms history as a child!
Stephanie Guerrero	Hearne, TX	2015-06-18	There are important, historical points of interest at risk.
Linda Brown	Gause, TX	2015-06-18	I am against family homes , farms and historical sites being taken. This area has been in many families for many many years. It is home.
Cathy Kornegay Tooley	Spring, TX	2015-06-18	This is my family's land.
Sandi Timko	Bryan, TX	2015-06-18	I believe in the rights of private property owners.
lori langlois-swain	College Station, TX	2015-06-18	My brother-in-law's family owns many of those beautiful acres of land. There are many amazing things there, lots of history many arrowheads, lots of memories.
Stephny Pappas	Spring, TX	2015-06-18	I own land in Gause Texas and do not want water front property.
Verna Irwin	Shepherd, TX	2015-06-18	It is my birthplace. I have family and friends that will be severly affected.
CHRISTOPHER COLLINS	Milano, TX	2015-06-18	LOSS OF FAMILY PROPERTY OF LOCAL RESIDENTS
Marissa Starkey	Teague, TX	2015-06-18	I'm signing this because it will be taking away land from some of my family and many others.
Makenzie Millie Caywood	Rockdale, TX	2015-06-18	I am signing because I think this is a very bad idea.
Judith McGeary	Cameron, Bolivia, Plurinational State of	2015-06-18	We have already lost too much farmland in this state. There are better ways to address our water needs than building new reservoirs that destroy limited natural resources.
Kylee Sapp	Theodore, AL	2015-06-18	I was born and raised in Milam county and this directly affects family and lifelong friends of mine and their land. This is ridiculous.
Linda Wyatt	Milano, TX	2015-06-18	It would be a terrible thing to happen to our families who have owned this land all their lives .....as well as their parents and grandparents.
Jaylin Billig	San Antonio, TX	2015-06-18	Less destruction of land, more water conservation! This is both unnecessary and environmentally heinous.
JoAnn Kornegay Pilkey	Gause, TX	2015-06-18	I am 4th generation land owner in this proposed mess and do not want to lose my family birthright.
MELANIE SHEPPARD	Gause, TX	2015-06-18	I
Michael Kornegay	College Station, TX	2015-06-18	My family owns land here.
Gabby Brewer	Groesbeck, TX	2015-06-18	I feel strongly you are affecting families that have built their foundation in a negative manner.
Cindy Carmichael	Gause, TX	2015-06-18	I own land in this region
Toni Charanza	Cameron, TX	2015-06-18	This will be taking land away from people and their families! Some of which have been in their families for hundreds of years. You will be destroying history!
Ashley Hughes	Gause, TX	2015-06-18	I have children who will inherit land/houses/livestock
Caleb Hubnik	Cameron, TX	2015-06-18	I have land on the little river and I use that land as a source of hunting and fishing. I will not let this idea ruin my chances of hunting or fishing. I have cousins that farm on the little river also
Carolyn Mullinax Carroll	Milano, TX	2015-06-18	Four generations of my family have been Milam County residents and I do not believe the reservoir is in the best interest of Milam County.

Name	Location	Date	Comment
Kelly Balsmann	Spring, TX	2015-06-18	This would be devastating to farmers around the area, and destroy the natural preservation of the wildlife there as well.
brandy johnson	Gatesville, TX	2015-06-18	I'm originally from the area
Ashley Evans	Gause, TX	2015-06-18	Our family's land will be completely taken away
Toni Charanza	Cameron, TX	2015-06-18	This will be taking land away from people and their families! Some of which have been in their families for hundreds of years. You will be destroying history!
Jessica Bradshaw	Bryan, TX	2015-06-19	My family lives in Milano and we have a lot of land to raise all of our animals on. I would be devastated if I lost my childhood home. Thanks for your consideration.
Katherine Flores	Cameron, TX	2015-06-19	I'm signing this because this land is tied to history and has been in a famiy for years.
Doris Butler	Bronson, TX	2015-06-19	I don't think they shoul take people's land, especially under these circumstances.
Carl Wall	Claremore, OK	2015-06-19	This will effect the land that I was raise on and the place where I will retire on . My son has allways said he will live there that means 5 generations will live on this property . My Mother and Father had started a ministry there its a retreat for church group's such as children and teens for the last 17years I have worked for a large ministry camp in Oklahoma (Dry Gulch USA). So I believe that this land is supposed to be a place where we are to help children for example my Grandparents had 2 children but they raised around 12 on this property . So out of respect for the work they did my parents and for the work I will do and my son will do Please do not flood this property. Thankyou
Gladys Kornegay Keith	Conroe, TX	2015-06-19	This land is where I lived and owned before selling to brother.
Christie Cockrell	Gatesville, TX	2015-06-19	I own property in Gause, TX and use 2095 to get there. My family has property and was raised there. Williamson county needs to provide its own water.
Eugenia Wood	Pasadena, TX	2015-06-19	I have family that this will effect
Beverly Renner	Caldwell, TX	2015-06-19	I am signing this because it would greatly impact the school district that I teach in.
Stonie Guthrie	Rockdale, TX	2015-06-19	Directly affects my future family and lands they will inherit and currently own.
MARGRETT BRASHEAR	Granger, TX	2015-06-19	This is my home. It was where me and my sisters and brothers grew up. I watched my Daddy take this piece of land and make it what it is today. Many of the folks, who are friends and neighbors have the same story I do. Does it make sense to destroy all these lives and their source of income. This may be 4300 acres to you but it is my life and my families lives and my friends & neighbors lives. Please, sign this petition.
MARGRETT BRASHEAR	Granger, TX	2015-06-19	This is my home. It was where me and my sisters and brothers grew up. I watched my Daddy take this piece of land and make it what it is today. Many of the folks, who are friends and neighbors have the same story I do. Does it make sense to destroy all these lives and their source of income. This may be 4300 acres to you but it is my life and my families lives and my friends & neighbors lives. Please, sign this petition.
Madeline Jones	Caldwell, TX	2015-06-20	This is my hometown! So many memories there. I have an abundance of family who still live in that particular area!
Pamela Hornby	Caldwell,, TX	2015-06-20	I live just south of Gause in southeastern Milam Cnty & this reservoir would have a negative impact on our community.

Name	Location	Date	Comment
Joyce Conner	Gause, TX	2015-06-21	This directly affects our home and land, thus affecting all of the plants and animals that we protect by practicing wildlife management. It would also completely destroy several pristine creeks, a national trail, ancient artifact areas, and a 100+ year old cemetery. There should be a law that no land can be taken from citizens for water unless every other possible practicable solutions and every conservation efforts have been taken. That is not true at this time.
Michael Conner	Gause, TX	2015-06-21	This is a very expensive, inefficient and destructive project. There are better alternatives.
nancy soechtng	Gause, TX	2015-06-21	My house and property will be taken. This is where we invested a lot of time and money building our retirement home.
Cheryl Lewis	College Station, TX	2015-06-21	Destroying the environment by flooding is not the solution to environmental problems. Nor is it just to evict people from their homes so that others might continue to water their St. Augustine lawns. Before such drastic steps are taken to provide water, every conceivable conservation measure should be implemented by the populations requiring the water supply, especially maximum reduction in water use for landscapes.
Leslie Uptain	College Station, TX	2015-06-21	suppirting history, family, and agriculture.
Hardy John	Gause, TX	2015-06-21	It's not the water boards property,
Jan Gerston	Bryan, TX	2015-06-21	Enact and *strongly enforce* water conservation (to include punitive water rates for wasteful users) and reuse before resorting to drastic measures such as reservoir. College Station has one of the highest per-capita water use rates in the state!
LaDonna Gatlin	Yorktown, TX	2015-06-21	It is time that "we the people" stand up for what is right and defend our friends and neighbors from attacks by those individuals/governments/corporations who use the phrase "for the good of the people" to line their pockets.
richard Strelsky	Bryan, TX	2015-06-22	My family has owned land in this area fir over 100 years yet I see nothing in this research about the families impacted.
Kristin Schustereit	Yorktown, TX	2015-06-22	This would affect close friends.
Irene Lippan	Cape Coral, FL	2015-06-22	I disagree with the proposal.
Hans Hansen	Marble Falls, TX	2015-06-22	Doesn't appear to be good deal for long time property owners or local ecology.
Evelyn Dalton	Midland, TX	2015-06-22	i have family in this area
Jodi Gauker	Fleetwood, PA	2015-06-22	It is an unnecessary and ridiculous action to take family's land for an unclear plan that may or may not solve the ultimate water issue.
Teri-Lynn Hatch	Conroe, TX	2015-06-22	I'm signing because you're wanting to remove years an years of family history of farming land. Texas creates jobs not take them away.
Bradley Matthews	Houston, TX	2015-06-22	my friend's land will be affected
nicole strelsky	Belton, TX	2015-06-22	This land is my husband's families land. They have a cattle ranch and homes on this land but most of all memories on this land. Its been in their family for over 125 years. It is not right to take this land from the people who live here, grown up here, run their businesses here and most of all enjoy their lives here!
Suzanne Williams	Jacksonville, FL	2015-06-22	Nothing is sacred to you people, is it? Except for this - $$$$$$.
Lenora Krueger	Cameron, TX	2015-06-22	I inherited my parents farm in the Liberty Community. I grew up with many of the families whose lives will be devastated by the reservoir.
Amber Woods	Houston, TX	2015-06-22	i believe this is both ethically and environmentally wrong!
Heather wall	Gause, TX	2015-06-22	We own land that will be taken away. Land that has been in my husband family for generations.

Name	Location	Date	Comment
Howard anne baumann	Nordheim, TX	2015-06-22	This is just plain WRONG!
James Henderson	Cameron, TX	2015-06-22	I grew up in the little town of Gause Texas where many memories were made, I do not want to see my tiny town be destroyed!
Stacy Knight	Franklin, TX	2015-06-22	I don't want to see families, have land taken away that has been in their families for generations.
Bobby Boggan	Hearne, TX	2015-06-22	I was raised there
Judy Roper	Gause, TX	2015-06-22	Our home, acreage and hopes and dreams for the future for ourselves, our grandchildren and great-grandchildren will be buried under water. Also, this action will have an adverse affect on our community and school system.
David lund	Pflugerville, TX	2015-06-22	Unnecessary. ..
Sherri Rasco	Hearne, TX	2015-06-22	i have land in Gause, Tx
Elena OConnor	Austin, TX	2015-06-22	this does not need to be done.... Leave Native Artifacts alone!!
Vivian rollins	Wichita, KS	2015-06-22	I no longer live in the area, but still have strong ties to the community. The farms and ranches in the area are still a vital part to survival.
Laura Hoover	Somerville, TX	2015-06-22	It affects my family's land.
William rockett	Prior Lake, MN	2015-06-22	It's my cousin's land
Jeremy Conner	Austin, TX	2015-06-22	My family owns and lives on land that will be drastically affected.
donald palmer	Houston, TX	2015-06-22	This plan is ludicrous. Go back to the drawing board. Abbott, the idiot Will approve it.
Cindra Dolezalik	Ennis, TX	2015-06-22	Ruining pasture land should never be an option.
Frank Wall	Round Rock, TX	2015-06-22	My Family and I have land that would be consumed by this purposed plan.
Michael Threadgill	Waco, TX	2015-06-22	History should be preserved, not flooded.
Amber McCormack	Rockaway, NJ	2015-06-22	I'm signing because I have many friends in that area who own property there that will be completely destroyed by this.
Betty Vermeire	College Station, TX	2015-06-23	This Off-Channel Reservoir is an extremely bad idea. It just won't work. Moreover, it will destroy thousands of acres of habitat, areas of historical significance, and people's land and ranches. Once destroyed, these areas cannot be recouped. Habitat covered with water cannot be relocated elsewhere - the soil, elevation, drainage, and more, is just not the same. The idea is ill-conceived and just plain bad. DO NOT build this reservoir.
Linda Hale	Auburn, IN	2015-06-23	I don't think precious agricultural land, and land with historical significance, should be flooded to provide water for a city 2 hours away. These big cities need to implement serious conservation efforts before resorting to taking by condemnation and eminent domain land that belongs to others.
K Lowe	Frisco, TX	2015-06-23	Friends with family land and the cemetery
Lori Poehl	Milano, TX	2015-06-23	I live in milano and I don't want family & friends to loss there land.
J.D. Farrington	Austin, TX	2015-06-23	Flooding this land would be a travesty which can't be undone. Rather than water storage, put more effort in water conservation in Williamson County. Round Rock, for example, was extremely lax in implementing ANY watering restrictions, and when they did during the worse years of drought, they only restricted watering to twice per week. Other cities, such as Austin, created a stricter standard and has seen good compliance. Implement and enforce restricted water use and make high end users pay high penalties for over usage.

Name	Location	Date	Comment
Misti Schulz	Dublin, TX	2015-06-23	I was raised in milam county. Lived there 20 years. Land is all some people have to hand down to their children. It is a heritage. My family has owned land in milam county almost a hundred years. It is no ones place to just take a families home, life, and memories!
R W Shamy Jr	Rockdale, TX	2015-06-23	Being a resident of Southwest Milam Co., most have had generations of family farms that will be affected. Flooding this land is wrong, too much history and artifacts involved. What needs to be done is stricter water restrictions on the big cities and when implemented stick to them. Shame on those who made this decision to do this.
Dianne Anthony	Arlington, TX	2015-06-23	Please do not destroy an ecosystem to make a big pond of muddy water. This land is ecologically important just as it is. It is more than private land ownership that is at stake here.
Barbara Blakely	Dickinson, TX	2015-06-23	Our family has lived on that land for over 4 generations.
Terry Nevitt	Rockdale, TX	2015-06-23	I own land in this area
Amber Basonic	Cameron, TX	2015-06-23	I care about Milam County families that would be negatively impacted by the implementation of this proposal.
Eloise Daniel	Conroe, TX	2015-06-23	I'm against flooding of the land in the Milano and Gause area!!
Charriss York	Dickinson, TX	2015-06-23	I thinkTexas is investing too much in large scale projects like this one snd not enough in water conservation education and technologies
Kurt Walker	Houston, TX	2015-06-23	I am from Gause and I don't want to see local residents lands covered up by water that they get zero use or advantage from. Not fair.
Blake Niemann	Temple, TX	2015-06-23	No one should have there land taken away. & it should not be destroyed
Midori Snyder	Tucson, AZ	2015-06-23	As someone who owns an ancestral farm, I deplore the seizure of such ranches as well as historical sites .
Amanda Cunningham	Moody, TX	2015-06-23	It's the right thing to do
Cody Yoakum	Rockdale, TX	2015-06-23	It's not right to take land from a family.
Cassey Weigt	Friendswood, TX	2015-06-23	To save the land
Cynthia Olvera	College Station, TX	2015-06-23	I believe this is a serious over reach and the people of the area were NOT given appropriate notice.
larry kerlin	Thorndale, TX	2015-06-23	I am against the water structure.
Megan Fischer	Austin, TX	2015-06-23	I'm signing this because it directly and negatively impacts people I care about.
John Dean	Temple, TX	2015-06-23	no benefit to Milam county
Ken Kesner	New Caney, TX	2015-06-23	I'm signing because it's not right to take land that has been in families for years. Disrupting the natural elements that the land has provided.
Kelly carlile	League City, TX	2015-06-23	for a friends land!
ivonne cortes	Austin, TX	2015-06-23	#TEAMBLAKELY
Sharon Schiellack	League City, TX	2015-06-24	I am a big fan of the Blakely family.
Cole Loal D.	Cameron, TX	2015-06-24	No one should ever loose their property for the benefit of residents of another county. Further, only people who must answer to the voters and only the voters of a county should have the right to do what is proposed. Remember 1776!! Those who try to take away ones rights incite revolution. Too many people are losing their rights to those who do not respect the individual or his rights. Why should any of us have to defend our rights from supposed Law abiding people? Do not allow non county residents steal Milam county property for the benefit of residents of another county.
Erin Daniels	Rockdale, TX	2015-06-24	You shouldn't be able to take land that is not yours in the first place.

Name	Location	Date	Comment
Lindsey Summers	Cameron, TX	2015-06-24	I'm signing because I want to preserve the land in Milam County and feel that Williamson county needs to find land there to fulfill their water needs!
Jerry Caywood	Bastrop, TX	2015-06-24	I own a farm - which has been in my family for over 120 years - nor far from this reservoir. I also do not want to see the El Camino Real affected!
Carla Battle	Austin, TX	2015-06-24	I love Jenn Blakely and her family!
Gwen Overturf	Franklin, TX	2015-06-24	I have family and friends here who will be directly affected by this travesty of justice. Seriously.....in AMERICA? I'm so ashamed.
Vicky Skillman	Katy, TX	2015-06-24	It affects my families land.
dillon little	Milano, TX	2015-06-24	Its not right to destroy beautiful scenery and to take people's land that has owned for years an taken care of what's wrong with the United states since when did we become theifs to our own tax paying people it's just not right
Emma Finto	Waco, TX	2015-06-24	I grew up out there and I have family. I don't want to see my family or friends drove off their land for this act.
Bill Blakely Jr.	Dickinson, TX	2015-06-24	I own property affected by this proposal and this land has been in the family for over 100 years. This idea is ridiculous.
Jennifer Mabry	portland, TX	2015-06-24	I'm tired of profit destroying our land.
nancy shockley	san angelo, TX	2015-06-24	This would be wrong.
john riherd	McKinney, TX	2015-06-24	I have relatives all over the state. I have extended relatives all over Texas. There is not many historic cemeteries in which I do not have a relative of some sort. It is not acceptable to remove a historic cemetery due to the over population. They didn't plan that well. Still building and running out of water? If it was your relative, would you want them moved because a builder kept building for profit? You build you create jobs. People move to the jobs. The community grows. It's a cycle. The builders are ruining our history. Guess we're doomed to repeat it.
Tomascik John	Lincolnshire, IL	2015-06-24	The county that wants the water needs to give up the land to store it, don't take our land.
Becky Thurman	Rockdale, TX	2015-06-24	not fair for Milam County!!
jackquelyn martin	Houston, TX	2015-06-24	I was born and raised in Rockdale and I know that the family worked hard and the land should remain the the family hands
Traci Harbour	The Woodlands, TX	2015-06-24	It's my families land. It's been in our film since my great great grandfather bought it in the late 1800's. They can find another place to put this ridiculous reservoir. We love our land.
Geri Burnett	Rockdale, TX	2015-06-24	This land is highly ranked historical site.
Emma Ribar	Buckholts, TX	2015-06-25	Our water belongs here first. Build a reservoir close to whatever city needs it. Take their land, not Milam County's.
Roger Barron	Keller, TX	2015-06-25	Milam County property owners should not be punished by land seizure to support the growing population of Williamson County, which this reservoir would service via a 43 mile pipeline. Williamson County should find their own solution, ie. expand Lake Georgetown.
Deana Hurt	Shreveport, LA	2015-06-25	This is a historical area: El Camino Real National Trail. Also, leave Little River/Brazos River alone!
Katie Cowgill Clayton	Houston, TX	2015-06-25	It matters.
Gary Kornegay	Gause, TX	2015-06-25	This is my HOME, not just a house.
Kimberly Hahn	Yorktown, TX	2015-06-27	My family wants to keep it property and not let it go because another county needs water. That county needs to find it's own solution.

Name	Location	Date	Comment
Earline Clark	Leslie, AR	2015-06-27	The Govt is over stepping its bounds. They need to leave peoples land alone.
James Stewart	Checotah, OK	2015-06-28	Still have land and family here!
Linda Berry	Orange park, FL	2015-06-28	because I was raised there , and too much development to begin with . My family has been pushed out of the ranch business , due to things like this .
Debbie Smith	Caldwell, TX	2015-06-29	Historical land will be devastated.
Ann-Marie Graham	Rockdale, TX	2015-06-29	I live in Milam County. This reservoir will not serve this county in any way other than to steal our resources and send them somewhere else. Stop this project now!
ricky birlew	Quinlan, TX	2015-06-30	I'm tired of lrg corporations and government forcing their way on us
Jerod Thomas	Lockhart, TX	2015-07-01	I disagree with seizing privately held legacy land, historical cemeteries and other natural sites of historical significance.
Brandon Swason	Cameron, TX	2015-07-01	All of my family's land will be under water....
Lucille Brown	Gause, TX	2015-07-01	This is not right. Many people's land will be underwater, and other natural sites and wildlife will be gone.
Mary Wysong	Moody, TX	2015-07-01	Who is responsible for this asinine idea, anyway? It needs to be buried in the same manure pile as the Trans-Texas Corridor plan.
cindy russell	Weston, TX	2015-07-02	whats being done is wrong, to displace a cemetery.
Olga Bargas Avalos	Spring, TX	2015-07-02	Cemeteries are sacred grounds that hold a lot of history. Someone's ancestors are buried there and they should not me take away.
Stacey Wall	Gause, TX	2015-07-03	Stacey Wall
Gary Neal	Gause, TX	2015-07-03	lose my home to feed water to another county...
Chris Read	McKinney, TX	2015-07-04	This affects my property in Gause on county rd 343.
Liz Metrik	Dallas, TX	2015-07-04	Too many ranchers and homes of friends will be destroyed.
katelynn Stewart	Milano, TX	2015-07-07	Please don't take my family's land
Tommie Bakken	Milano, TX	2015-07-07	There is just no need for this land to be taken away from those who rightfully own it in order for those who were unaccountable for planning based on money to have water.
Jeri Reed	Mobile, AL	2015-07-07	For cousin and Auntcin Milano, Tx
Stephanie Lopez	Granger, TX	2015-07-07	I grew up in Milam County.
Adrian Watkins	Cameron, TX	2015-07-07	Milam county has been our family's home for many generations!
Vicky Kirk	rockdale, TX	2015-07-07	I am signing this because there is no benefit to my community, and actually harms us by des toying fertile farmland vital for our economy.
Josh Kennington	Seguin, TX	2015-07-07	My family is in that area
Kasey Rosecrans	Rockdale, TX	2015-07-07	I'm sign because land is harder to come by than water!
Mark Rangel	Wynnewood, OK	2015-07-07	I grew up in this area.
Jason gloger	Paige, TX	2015-07-08	have a place not far from there
melissa morgan-abbe	Gause, TX	2015-07-08	I grew up my entire life around this place! so many lives are being affected by this if it happens your destroying homes and land that had been here for hundreds of years,lots of people's heritage and family land. I'm am quite certain if it was YOUR land YOUR history your memories and current home YOU would be signing this petition as well! For goodness sakes Milam county isn't even going to see any kind of benefit from this big mess! Don't do this, if you have any compassion in your hearts DO NOT DO THIS!!!!!

Name	Location	Date	Comment
Hayleigh Lagrone	Milano, TX	2015-07-08	This will take away my grandmas land where she and my grandpa have been prosperous with crops. Her home needs to stay where it is.
Dennis Sapp	Cameron, TX	2015-07-08	I grew up my whole life running this area hunting and fishing.my dad taught me and I have taught my son's in all the same area's.my grandchildren will not have the same opportunities to learn as long as these people are taking away the land and rivers from our county to support another county.just build in your own and leave ours alone.
Sarah Little	Lubbock, TX	2015-07-09	I grew up there and so did my dad and all of his family! It's like home there although he passed away there when I was 17! I love and miss him every day and being there just feel like he is by my side with me!
Mary Haeth	Hearne, TX	2015-07-15	It is not right for you to keep water from private citizens!
Kelly Palladino	Valley Cottage, NY	2015-07-16	Montauk needs help .
Tommi Ivey	College Station, TX	2015-07-21	I want to save Pin Oak Cemetery where many of my ancestors are buried.
PAMELA RUCKER	GARLAND, TX	2015-07-24	It's the right thing to do.
Martyn Hafley	Grand Prairie, TX	2015-07-27	I own a house in Milano, TX. I disagree strongly with forcing Milam County residents to lose property and history to meet the needs of another county. This is not right. Williamson County needs to find another solution and if residents are negatively affected, then those residents should be in the county that benefits from the actions. "Might does not make it right and I believe the majority should not be able to just take from the minority." Again I believe strongly that this is wrong.
Loretta Angus	Fernandina Beach, FL	2015-07-30	I want our air to stay clean , free from coal dust.
Carl Jones	Rockdale, TX	2015-08-02	Fed up with all the bureaucracy and entity deals for money at the expense of the common man. Enough already!!!
Lenny Hoelscher	Cameron, TX	2015-08-02	I am opposed to this reservoir.
Cathy Lazarus	Calvert, TX	2015-08-10	This is not a well thought out strategy. I location sits over a major groundwater recharge zone.
charles Ellison	Franklin, TX	2015-08-10	We want to keep our rivers flowing and our wells pumping
melvin arbor	Hearne, TX	2015-08-10	stop the little river -off channel reservoir
Bob Small	Franklin, TX	2015-08-10	The Lake is a bad and self serving idea by people who obviously think Milam & Robertson Counties are sparsely populated and can be ran/run over by the Brazos G Water Planning Group. They cannot and will not! Bob Small
Polly Morgan	Hearne, TX	2015-08-10	To protect water and land rights of friends and family.
Shane Johnson	Conroe, TX	2015-08-11	This is bad for the people in my home town
Tom Pearson	Brenham, TX	2015-08-11	It is so wrong for this water planning group to ruin hundreds of acres of private property and a historical cemetery to send Milam Co. water to another County that has created their own water problems. In a severe drought this project would be worthless anyway. This is not the way Texans treat other Texans.
Anna Foerster	Yorktown, TX	2015-08-11	I have friends who own land in the flood area
James McDaniel	Fairfax Station, VA	2015-08-11	This project in no way involved the citizen of the county where lands will be taken. Bad planning.

Name	Location	Date	Comment
David Balusek	Leander, TX	2015-08-11	I'm tired of the bullying of government and city leaders, greed greed greed. You should just call it stealing, because after all you guys did not bust your butts to earn it. If you study your facts the law of the land states that a title is granted in the form of deed, deed meaning title that is granted to the person paying for the land, so if a name is on the title to that property the person owns it. Tax is paid to keep the title. So if a persons name owns the land and is paying the tax's it is theirs. A person should not be pushed to sale something they own, and it should not be taken from them (stolen)
Shelley Huettel	Smithville, TX	2015-08-11	I believe family land should stay in the family, we need to keep private land for agriculture , wildlife and just quality of living for those in the area. Please don't take private land.
Meagan Clopton	Plano, TX	2015-08-11	Stop the Little River Off-Channel Reservoir.
David Goode	Lubbock, TX	2015-08-12	I think the people in the county that needs the water should flood their own families properties instead of strangers property in a distant county.
Lynn Hagan	Gause, TX	2015-08-12	This will affect 30% of our land.
Evan Vause	Gause, TX	2015-08-12	I am a land owner within the area that would be flooded for the reservoir.
Chris Wilson	Gause, TX	2015-08-12	This will not benefit Milam County.
Beverly Carmichael	Houston, TX	2015-08-12	Family, livestock, & native animals & plants do NOT need to be destroyed for expansion of potential businesses & home builders.
Nicola Cousins	Old Rayne, United Kingdom	2015-08-12	This involved my friends land
mary c white	Hearne, TX	2015-08-13	I believe in the rights of individuals to protect their property.
Jason Kurten	College Station, TX	2015-08-13	We need to keep our rivers flowing.
Vivian Dixon	Gause, TX	2015-08-13	I love my home and I am located in the area they want to destroy.
Janice Kornegay	Arlington, TX	2015-08-13	Some of the property has been in my family over 100 year. I don' think anyone should be able to take the land away from my family.
Sheryl Hall	College Station, TX	2015-08-13	This OCR will take away our home!
Dave Cunningham	Hearne, TX	2015-08-13	I care about this area . I understand the many fallacies of this proposal
Brooke Larsen	Brazoria, TX	2015-08-14	Pin Oak Cemetery is my families cemetery. They have chosen to be buried there for generations and to move entire families from their chosen resting place is a horrible circumstance I hope to avoid. To have to move my sister, grand father, great grandparents and their children, and even great-great grandparents is heartbreaking not only to my family but to many other families whose families are in this historic cemetery. These reasons are personal, but you cannot look over the historical aspects either. This cemetery is also a historical landmark. History needs to be maintained for generations to come. If we believe it is "okay" to remove a small piece of history in a little town when will it stop?
Steve Wyatt	Brazoria, TX	2015-08-14	Pin Oak Cemetery has been chosen for generations to be the final resting place for my family. From my daughter, father, granddaddy, grandmother, uncles, aunts, cousins, and as my family before me that is where my wife and I have chosen to be. I grew up at the Old Perkin place and it holds a special place for me. This will be a travesty for the land owners who will lose their property and to the multiple families whose loved ones are resting at Pin Oak. To lose the beautiful land and replace it with water is a shame. There is so many more ways it can be used than to waste it. To move my daughter and my father from where they chose to be is not something I ever thought to be faced with.

Name	Location	Date	Comment
Tammy Moore	Crestview, FL	2015-08-14	My nieces family is buried there.
Brittany Faith	Brazoria, TX	2015-08-14	My family is buried where they want to put this. Very disrespectful to the deceased and living family members.
Gigi Canard	Brazoria, TX	2015-08-14	I have fear friends buried there
Hannah Smith	Waxahachie, TX	2015-08-14	Reliving the burial of loved loves wod be awful for these families.
marie taylor	clute, TX	2015-08-14	I have friends and family who will be affected by the flooding of land. Please choose somewhere else to build the resivoir.
Brandy Bell	Hempstead, TX	2015-08-14	The impact this would have is not positive for Texas land, animals, or residents.
Ana Moralez	San Antonio, TX	2015-08-14	Because my friend, Brooke Larson's sister is buried there.
Amber Palmer	Columbia, TN	2015-08-14	Have many family members buried at Pin Oak. Always expected that do be my final resting place as well.
Elizabeth kirkpatrick	Tampa, FL	2015-08-14	This is where my family is buried
Jennifer Dehn	Battle Creek, MI	2015-08-14	It's the right thing to do. Please respect this resting ground.
Charlcye Glenewinkel	Brazoria, TX	2015-08-14	Moving people laid to rest is wrong.
brittany trevino	San Antonio, TX	2015-08-14	Moving dead bodies who are resting in peace is messed up
Starsha Frederickson	Helena, MT	2015-08-14	My cousin is buried in the cemetery. Moving her and other's is disrespectful to the families and the historical aspects of this beautiful little town.
Elizabeth Robinson	Ennis, TX	2015-08-14	I'm signing because people, history, families matter.
Candice Nordhagen	Butte, MT	2015-08-14	It's the right thing to do.
Barbara Upah	Tampa, FL	2015-08-14	I am signing this because she is my great niece and Brooke deserves to keep her family together in life or death
Ashley Robinson	Brazoria, TX	2015-08-14	My best friend
Nancy Newton	Weymouth, MA	2015-08-14	Is it truly necessary to destroy a graveyard? People's lived one's are there!
Holly Frederickson	Chester, MT	2015-08-14	Water is important but not nearly as important as the lives and families of the people!
James Wyatt	Prairieville, LA	2015-08-14	My family is buried in pinoak cemetery which is on our old home place
Donald Wyatt Jr.	Lake Jackson, TX	2015-08-14	My family donated land that became Pin Oak Cemetery and family members are buried there.
Meagan Grieco	Killeen, TX	2015-08-14	My family is buried there.
Courtney Miculek	Needville, TX	2015-08-14	I'm signing because this shouldn't even be a frickin issue. Leave the cemetery alone.
tracy gabriel	Decatur, IL	2015-08-14	This is Beatiful land and needs to be preserved!
Ashley Mathews	Damon, TX	2015-08-14	Families should not have to relocate their deceased.
jeniffer chancey	Sweeny, TX	2015-08-14	I have family barial plots there
Juanita Swango	Brazoria, TX	2015-08-14	A very special family has their daughter and family buried their
Coley McGough	Brazoria, TX	2015-08-14	You shouldn't move graves.
Candice Sisk	Junction City, KS	2015-08-14	My family is buried here
Maegan Tipp	Angleton, TX	2015-08-14	A dear friend of mine is buried at this cemetery along with some of her relatives and I do not want to see her family go through the process of burying them again.
Randall Taylor	West Columbia, TX	2015-08-14	I wouldn't want that to happen to me or my family
Lacey Jones	Sweeny, TX	2015-08-14	My friends family is in that cemetary.

Name	Location	Date	Comment
Ty Wyatt	San Marcos, TX	2015-08-14	My dads entire side of the family is buried at Pin Oak cemetery including my Papaw who recently passed away. I was very close to him and many other relatives that are buried there. This would potentially ruin there plots and many others around them.
Christopher Case	Newcastle, WY	2015-08-14	Stephanie Wyatt has been laid to rest there, she is my cousin.
Elizabeth Royer	Lake Jackson, TX	2015-08-14	My friends don't want to have to move their precious daughter's remains.
Patricia Kilian	Lake Jackson, TX	2015-08-14	You should not disturb where people are laid to rest and other people's property The government does not have this right!!!
cathy wright	Clute, TX	2015-08-14	That reservoir will flood a burial ground
Alma Garrett	Hempstead, TX	2015-08-14	Leave the water in God's hand and we will be ok.
Elizabeth Taylor	Arlington, WA	2015-08-14	There is historical value. In that land and a cemetary why cant y'all. Find a place different
Deb Riley	Port Lavaca, TX	2015-08-14	The cemetery in Milam Cty should NOT be disturbed.
Elizabeth Henderson	Brazoria, TX	2015-08-14	many friends & relatives are here. please don't uproot a holy ground.
Tonya Miller	Angleton, TX	2015-08-14	I have family buried at the affected cemetery and couldn't imagine putting their loved ones through having to move them.
Rachael cohen	Clute, TX	2015-08-14	People shouldn't lose generations
Lisa Myers	Brazoria, TX	2015-08-14	Friends are buried there. It would be heartbreaking to have to move them.
Randy Shafer	Bryan, TX	2015-08-14	My parents live there And it's their family farm, also I have cousins that own property there and will lose it all
Jaci Reese	Lake Jackson, TX	2015-08-14	On behalf of family and friends who are buried in the cemetery.
Brittney Cantrel	West Columbia, TX	2015-08-14	Becuz I believe in R.I.P * rest in peace* . And no family should have to go through all of the pain again by moving their loved ones that they have laid to rest
Dayna Bickham	Angleton, TX	2015-08-14	I have family buried in a graveyard that would be covered by water. This needs to stop!
Stacey Cutler	Houston, TX	2015-08-14	I love the Wyatt family, and this cemetery is special to this family and all who love them. It's important that we preserve the burial sites of their loved ones.
Brad DuBose	West Columbia, TX	2015-08-14	I'm tired of eminent domain destroying our culture and history!
Misty Tollett	Ozark, MO	2015-08-14	With love to the Wyatt family. The final resting place of their loved ones laid to rest in the Pin Oak cemetery should be respected and honored.
Sharen Rickman	Lolita, TX	2015-08-14	What a shameful act. One puts there loved ones to rest and someone wants to come along g and disturb them. If it were their loved ones that probably be signing this petition also. Hope you get your limit + signatures.
Marcia Swinehart	Tomball, Tx, TX	2015-08-14	Please save our natural lands and wildlife.
Clinton Hallett	Nowata, OK	2015-08-14	I support my friends and their loved ones that have passed.
Cappy Walzel	Sweeny, TX	2015-08-14	This is where some of my family's family is buried.
Janelle Miller	Porter, TX	2015-08-14	Save the historic ranches on this property.
Cathy holdsworth	Tomball, TX	2015-08-14	my friend's family lives there.
Tabitha Durant	Abilene, TX	2015-08-14	Friends that are like family will be affected....
Diana Cantrell	Pearland, TX	2015-08-14	The farms and cemetery should not be forced to move!

Name	Location	Date	Comment
Amber Kirkpatrick	Jasper, TX	2015-08-14	I have family buried in the cemetery that would be disturbed. Consider how you would feel if it was your loved one. Would you ask your mother, or any mother, to relive the burial of her child? I would not.
Connie Caveness	Magnolia, TX	2015-08-14	I oppose taking privately owned land. There has to be another way.
Kami Jordan	Floresville, TX	2015-08-14	I'm am signing this petition because I do not agree with flooding areas where people's homes, towns, historical areas, natural habitats, and cemeteries are located. I realize that you assessed the environmental damages but that is only a small guess as to what would end up in the water. Besides tons of wildlife will have to be moved and many could die in this process. The government should not have the right to steal property thats been owned for generations either. What would you do if your family lived there and was told to vacate? I'm standing up for the people and wildlife that are going to be affected by this. Build your lake someplace else and do not change what history has already defined. Who are you to play God?
maria de la cruz	Somerset, TX	2015-08-14	I want these people to stay with there property be fair and dont steal from families
Marlinda Martin	Brazoria, TX	2015-08-14	I don't want to see the land of my family, friends and ancestors be turned into a reservoir.
Jim Pedigo	New Caney, TX	2015-08-14	Will affect family cemetery
Edward Craddock	Jone Creek, TX	2015-08-15	Historic cemetery needs to be left alone.
Lee Ann Smith	Angleton, TX	2015-08-15	My Friends daughter is buried in that cemetery
bria Cryer	Brazoria, TX	2015-08-15	let her rest in pease
Jeff Cobb	Pasadena, TX	2015-08-15	It is wrong to disturb to site of the graves
Melissa Head	Brazoria, TX	2015-08-15	It's not right for families to have to move their deceased loved ones.
Lisa Swift	Missouri City, TX	2015-08-15	A friend is buried there.
Amanda Sanchez	Sweeny, TX	2015-08-15	It's not necessary. Don't take what isn't yours. Don't destroy what isn't yours.
Ashlyn Bodenman	Austin, TX	2015-08-15	I am signing because Stephanie was one of my best friends and she deserves to rest in peace. I love and miss you, Steph <3
Bretton Woods	Baskin, LA	2015-08-15	I believe it's against the law to bother the dead
steven cook	Baytown, TX	2015-08-15	Helping out
J. Corban Tackitt	Granite Bay, CA	2015-08-15	There are family graves on that site
Heather Meyer	Bay City, TX	2015-08-15	it is what it is!
LeJean Rand	Natchez, MS	2015-08-15	Know family should ever have a family buried somewhere, then all of a sudden it can be destroyed! How cruel and inhuman treatment!
Elissa Kahla	Lake Jackson, TX	2015-08-15	I'm signing because this will ruin my families history.. Including ruining a family cemetery and lots of farm land.
Jenna terry	West Columbia, TX	2015-08-15	The deceased shouldn't be tampered with!
Robert Meiresonne	Santa Fe, TX	2015-08-15	Friends of the families an their friends. Also because I hate to see people loose their places.
Jessica Watson	Lake Jackson, TX	2015-08-15	To save his family!
Sharon Kimbrough	Clute, TX	2015-08-15	We need to preserve historical landmarks and protect our wildlife.
Kelly Thornton	Aubrey, TX	2015-08-15	The souls in that cemetery should rest in peace and wiping out that much natural habitat is not acceptable
Susan moore	Sunnyvale, TX	2015-08-15	I have family buried on this sight.

Name	Location	Date	Comment
Irene Jahns	Cornelius, NC	2015-08-15	We have to stop tearing up land that has been in families for years and hurting those families.
Cheryl Walker	Milano, TX	2015-08-15	Preserve ranch land.
Joseph Bermea	Pflugerville, TX	2015-08-15	Nearby land owner
Marla Bermea	Pflugerville, TX	2015-08-15	Nearby land owner
Kelli Pate	Brazoria, TX	2015-08-15	I disagree with a family having to move a loved one, it's like having to relive the funeral all over again. The hurt is real.
Brandt Sparks	Houston, TX	2015-08-15	This is where I grew up. Leave it alone.
Cole Hickman	Odessa, TX	2015-08-15	Too many historic homesteads will be lost. Im sure they would be compensated, but think of the memories that would be lost, SAY NO!
Rachel D. Burt	Bay City, TX	2015-08-16	We have family buried there. No one needs there land taken away. No one needs historical lands covered/ruined. No one needs more water stealers.
Lori Young	Tomball, TX	2015-08-16	I would like to save this.
Debe Rodgers	Wetumpka, AL	2015-08-16	My friends family is buried there.
Jennifer Hughes	Franklin, TX	2015-08-16	I believe it's right to stand up for what matters..Deborah and her family matter to me!
Amanda Sweeney	Freeport, TX	2015-08-16	I don't think it's right to disturb the remains of the dead.

STOP LITTLE RIVER OFF-CHANNEL RESERVOIR

Change.org Petition Signatures - Downloaded August 16, 2015

Name	City	State	Postal Code	Country	Signed On
Deborah Russell	Tomball	Texas		United States	6/17/15
Arlene Schroeder	Yorktown	Texas	78164-5089	United States	6/18/15
Billy Gage	Milano	Texas	76556	United States	6/18/15
Donald and PaTricia Shaw	Gause	Texas	77857	United States	6/18/15
Gloria Frey	Gause	Texas	77857	United States	6/18/15
Patsy Alford	Gause	Texas	77857	United States	6/18/15
Allison Riherd	McKinney	Texas	75070	United States	6/18/15
Amanda Sulzbach	Spring	Texas	77380	United States	6/18/15
Norma Schendel	Yorktown	Texas	78164	United States	6/18/15
Nikki Niemann	Rockdale	Texas	76567	United States	6/18/15
Robert Gaston	Leander	Texas	78641-9103	United States	6/18/15
billy wisdom	Columbus	Texas	78934	United States	6/18/15
Andrew Holcombe	Cameron	Texas	76520	United States	6/18/15
Janet pilkey	Gause	Texas	77857	United States	6/18/15
Carrie Rogers	Pinehurst	Texas	77362	United States	6/18/15
Cheryl Timko	Livingston	Texas	77351	United States	6/18/15
Amanda Wilson	Hindsville	Arkansas	72738	United States	6/18/15
Tyler Langlois	Bryan	Texas	77808	United States	6/18/15
Douglas White	Gause	Texas	77857	United States	6/18/15
Mary miller	Gause	Texas	77857	United States	6/18/15
lisa Koenig	Gause	Texas	77857	United States	6/18/15
Irma Wall	Round Rock	Texas	78665	United States	6/18/15
keisha strelsky	Gause	Texas	77857	United States	6/18/15
Michele Williams	Pineland	Texas	75968	United States	6/18/15
Billy Kornegay	Kerrville	Texas	78028	United States	6/18/15
Billy lange	Brenham	Texas	77833	United States	6/18/15
Sheryl Overall	Cameron	Texas	76520	United States	6/18/15
Sheila Carter	Montgomery	Texas	77316	United States	6/18/15
Courtney Renaud	Cameron	Texas	76520	United States	6/18/15
Mitzi Stolarski	Kingwood	Texas	77339	United States	6/18/15
Teresa montez	Brenham	Texas	77833	United States	6/18/15
Loretta Wall	Caldwell	Texas	77836	United States	6/18/15
Victoria Gaston	Gause	Texas	77857	United States	6/18/15
Rhonda Jenkins	Livingston	Texas	77351	United States	6/18/15
Holly kornegay	Gause	Texas	77857	United States	6/18/15
Thomas Rice	Milam	Texas	75959	United States	6/18/15
Janice Hall	Denton	Texas	76208	United States	6/18/15
Stephanie Wall	Austin	Texas	78759	United States	6/18/15
Chantal Buslot	Hasselt	Texas	78753	United States	6/18/15
Fred Russell	Gause	Texas	77857	United States	6/18/15
Melanie Starkey	Teague	Texas	75860	United States	6/18/15
Ammie Read	McKinney	Texas	75070	United States	6/18/15
Kristi Martin	Tomball	Texas	77377	United States	6/18/15

Jamie Brown	College Station	Texas	77845	United States	6/18/15
Rhonda Lange	Caldwell	Texas	77836	United States	6/18/15
Monty Kuykendall	Cameron	Texas	76520	United States	6/18/15
Janice Kornegay	Arlington	Texas	76007	United States	6/18/15
Kristy Edwards	Gause	Texas	77857	United States	6/18/15
Zackary Burks	Cameron	Texas	76520	United States	6/18/15
Micah Simmons	Buckholts	Texas	76518	United States	6/18/15
Kitty Davis	Lucedale	Mississippi	39452	United States	6/18/15
Amanda Ely	Caldwell	Texas	77836	United States	6/18/15
Cindy Bell	Milano	Texas	76556	United States	6/18/15
Kenneth ellison	Bronson	Texas	75930	United States	6/18/15
Julie kornegaY	Spring	Texas	77386	United States	6/18/15
Jeri Clark	Bacliff	Texas	77518	United States	6/18/15
Stephanie Guerrero	Hearne	Texas	77859	United States	6/18/15
Mark Morse	Gause	Texas	77857	United States	6/18/15
Courtney Paulsen	Thorndale	Texas	76577	United States	6/18/15
Brandy Burns	Cameron	Texas	76520	United States	6/18/15
Celeste Banda	Cameron	Texas	76520	United States	6/18/15
Jennifer McCary	Gause	Texas	77857	United States	6/18/15
John Sulzbach	Spring	Texas	77380	United States	6/18/15
Wendy Stewart	Milano	Texas	76556	United States	6/18/15
Linda Brown	Gause	Texas	77857	United States	6/18/15
Cathy Kornegay Tooley	Spring	Texas	77381	United States	6/18/15
Leanne Burrough	Milano	Texas	76556	United States	6/18/15
Sandi Timko	Bryan	Texas	77808	United States	6/18/15
lori langlois-swain	College Station	Texas	77845	United States	6/18/15
Jennifer bailey	Round Rock	Texas	78681	United States	6/18/15
Stephny Pappas	Spring	Texas	77382	United States	6/18/15
lauren barrios	Denton	Texas	76209	United States	6/18/15
Verna (Bunny) Rose Irwin	Shepherd	Texas	77371	United States	6/18/15
Carolyn Chance	Bronson	Texas	75930	United States	6/18/15
CHRISTOPHER COLLINS	Milano	Texas	76556	United States	6/18/15
penny peel	Milano	Texas	76556	United States	6/18/15
J. L. Whitmire	Cameron	Texas	76520	United States	6/18/15
Marissa Starkey	Teague	Texas	75860	United States	6/18/15
Makenzie Millie Caywood	Rockdale	Texas	76567	United States	6/18/15
Judith MGeary	Cameron	Texas	76520	United States	6/18/15
Rachel Rittenhouse	Anna	Texas	75409	United States	6/18/15
Kylee Sapp	Grand Bay	Alabama	36541	United States	6/18/15
Linda Wyatt	Milano	Texas	76556	United States	6/18/15
Jaylin Billig	San Antonio	Texas	78249	United States	6/18/15
Christi Courtney	Cameron	Texas	76520	United States	6/18/15
Misty Garcia	Cameron	Texas	76520	United States	6/18/15
JoAnn Kornegay Pilkey	Gause	Texas	77857	United States	6/18/15
MELANIE SHEPPARD	Gause	Texas	77857	United States	6/18/15
Alyssa Kornegay	Gause	Texas	77857	United States	6/18/15
Florabell Smith	Fredericksburg	Virginia	22407	United States	6/18/15
Michael Kornegay	College Station	Texas	77845	United States	6/18/15

Gabby Brewer	Groesbeck	Texas	76642	United States	6/18/15
Cindy Carmichael	Gause	Texas	77857	United States	6/18/15
Tiffany bullock	Temple	Texas	76504	United States	6/18/15
NANCY TUCKER	Cameron	Texas	76520	United States	6/18/15
Toni Charanza	Cameron	Texas	76520	United States	6/18/15
Janice Golden	Milano	Texas	76556	United States	6/18/15
Becky Springer	Milano	Texas	76556	United States	6/18/15
Ashley Hughes	Gause	Texas	77857	United States	6/18/15
ashley atkinson	Gause	Texas	77857	United States	6/18/15
Miranda Collins	Bryan	Texas	77808	United States	6/18/15
larry sessums	Clarksville	Tennessee	37042	United States	6/18/15
Caleb Hubnik	Cameron	Texas	76520	United States	6/18/15
Carolyn Mullinax Carroll	Milano	Texas	76556	United States	6/18/15
Kelly Balsmann	Spring	Texas	77382	United States	6/18/15
brandy johnson	Gatesville	Texas	76528	United States	6/18/15
Suzanne Trageser	Houston	Texas	77008	United States	6/18/15
Ashley Evans	Gause	Texas	77857	United States	6/18/15
Elisabeth Bechmann	St. Pölten		3100	Austria	6/18/15
Kelsey Thurman	Rockdale	Texas	76567	United States	6/18/15
Jessica Bradshaw	Bryan	Texas	77802	United States	6/18/15
Katherine Flores	Cameron	Texas	76520	United States	6/18/15
cortney brown	oklahoma city	Oklahoma	73116	United States	6/18/15
Stonie Guthrie	Rockdale	Texas	76567	United States	6/18/15
MARGRETT BRASHEAR	Granger	Texas	76530	United States	6/18/15
Scott Kornegay	Gause	Texas	77857	United States	6/18/15
Doris Butler	Bronson	Texas	75930	United States	6/18/15
Lauri Ditto	Gause	Texas	77857	United States	6/19/15
Marisa Ditto-Wilson	Georgetown	Texas	78633	United States	6/19/15
Carl Wall	Claremore	Oklahoma	74019	United States	6/19/15
Gladys Kornegay Keith	Conroe	Texas	77301	United States	6/19/15
Steve Suggs	Geismar	Louisiana	70734	United States	6/19/15
Christie Cockrell	Gatesville	Texas	76528	United States	6/19/15
William Rittenhouse	Anna	Texas	75409	United States	6/19/15
Eugenia Wood	Pasadena	Texas	77505	United States	6/19/15
Beverly Renner	Caldwell	Texas	77836	United States	6/19/15
Zach bishop	Gause	Texas	77857	United States	6/19/15
Robert Pounders	Rockdale	Texas	76567	United States	6/19/15
Kyle Barrett	Cameron	Texas	76520	United States	6/19/15
Kathryn Barrett	Cameron	Texas	76520	United States	6/19/15
Joyce Dalley	Rockdale	Texas	76567	United States	6/19/15
Madeline Jones	Caldwell	Texas	77836	United States	6/19/15
Pamela Hornby	Caldwell,	Texas	77836	United States	6/20/15
Kim Wisdom	La Grange	Texas	78945	United States	6/20/15
Bertha Laura Fernandez Chaa			66460	Mexico	6/20/15
Sherri Wise	Bridge City	Texas	77611	United States	6/20/15
Sherri Brantley	Cameron	Texas	76520	United States	6/21/15
Joyce Conner	Gause	Texas	77857	United States	6/21/15
Barbara Avery	Milano	Texas	76556	United States	6/21/15

Karen Gray	Gause	Texas	77857	United States	6/21/15
Cody Cunningham	Gause	Texas	77857	United States	6/21/15
Michael Conner	Gause	Texas	77857-0008	United States	6/21/15
Harold Brown	Gause	Texas	77857	United States	6/21/15
Julie Lame	Austin	Texas	78757	United States	6/21/15
nancy soechtng	Gause	Texas	77857	United States	6/21/15
Linda Walters	Gause	Texas	77857	United States	6/21/15
Cheryl Lewis	College Station	Texas	77845	United States	6/21/15
Jessica Newcomb	College Station	Texas	77845	United States	6/21/15
Debbie Lockledge	Bryan	Texas	77801	United States	6/21/15
Nicole McKnight	College Station	Texas	77845	United States	6/21/15
Rosemary Yglecias	Cameron	Texas	76520	United States	6/21/15
Cruz Rios	Bryan	Texas	77802	United States	6/21/15
Lisa and Tracy Dixon	Gause	Texas	77857	United States	6/21/15
Leslie Uptain	College Station	Texas	77845	United States	6/21/15
Loyd Garrison	Gause	Texas	77857	United States	6/21/15
Brandon Griggs	Temple	Texas	76501	United States	6/21/15
Heather Wheeler	Hewitt	Texas	76643	United States	6/21/15
Hardy John	Gause	Texas	77857	United States	6/21/15
Ryan Erck	Stephenville	Texas	76401	United States	6/21/15
Vincent Turner	College Station	Texas	77845	United States	6/21/15
David Shehane	Portland	Maine	4103	United States	6/21/15
Cheyenne hernandez	Mansfield	Texas	76063	United States	6/21/15
Sarah Edwards	College Station	Texas	77840	United States	6/21/15
Jan Gerston	Bryan	Texas	77801	United States	6/21/15
Ashley Page	Scott Depot	West Virginia	25560	United States	6/21/15
lynne fillmore	dallas	Texas	75217	United States	6/21/15
Donna Ruppert	Nordheim	Texas	78141	United States	6/21/15
Abdullah Abdul Kader	College Station	Texas	77840	United States	6/21/15
LaDonna Gatlin	Yorktown	Texas	78164	United States	6/21/15
Betty Frisby	Goliad	Texas	77963	United States	6/21/15
Jerry Shehane	Carrollton	Texas	75007	United States	6/21/15
Tom Johnson	Bryan	Texas	77802	United States	6/22/15
richard Strelsky	Bryan	Texas	77802	United States	6/22/15
elaine barnard	Duncanville	Texas	75137	United States	6/22/15
Bonnie Bustos-Rios	College Station	Texas	77845	United States	6/22/15
Karen Gaida	Yorktown	Texas	78164	United States	6/22/15
Amy Loyd	College Station	Texas	77845	United States	6/22/15
Kristin Schustereit	Yorktown	Texas	78164	United States	6/22/15
Irene Lippan	Cape Coral	Florida	33990	United States	6/22/15
S Hornby	Round Rock	Texas	78665	United States	6/22/15
Jackie Bruce	Holly Springs	North Carolina	27540	United States	6/22/15
Jacqueline Schroedter	Webster	Texas	77598	United States	6/22/15
Suzie Medford	Red Rock	Texas	78662	United States	6/22/15
Teresa McBee	Gause	Texas	77857	United States	6/22/15
Brandy Chamblee	Shepherd	Texas	77371	United States	6/22/15
Hans Hansen	Marble Falls	Texas	78654	United States	6/22/15
Bruce Brown	San Luis Obispo	California	93407	United States	6/22/15

Lindsey Shehane	Winthrop	Maine	4364	United States	6/22/15
Evelyn Dalton	Midland	Texas	79706	United States	6/22/15
Jodi Gauker	Fleetwood	Pennsylvania	19522	United States	6/22/15
Dex Tuttle	Saint Paul	Minnesota	55109	United States	6/22/15
Sandi Osters	Burton	Texas	77835	United States	6/22/15
Teri-Lynn Hatch	Conroe	Texas	77303	United States	6/22/15
Shelby Hiatt	Somerville	Texas	77879	United States	6/22/15
Tanya Mikijanis	Wylie	Texas	75098	United States	6/22/15
Lynette Metting	Nordheim	Texas	78141	United States	6/22/15
Pamela Remmers	Nordheim	Texas	78141	United States	6/22/15
Amber scott	San Marcos	Texas	78666	United States	6/22/15
Bradley Matthews	Houston	Texas	77095	United States	6/22/15
nicole strelsky	Belton	Texas	76513	United States	6/22/15
Suzanne Williams	Jacksonville	Florida	32207	United States	6/22/15
Kristine Bridges	Yorktown	Texas	78164	United States	6/22/15
Adam cornett	Midlothian	Texas	76965	United States	6/22/15
Maggie Torrez	Nordheim	Texas	78141	United States	6/22/15
William Shafer	Conroe	Texas	77385	United States	6/22/15
Lisa Karnei	Nordheim	Texas	78141	United States	6/22/15
Marco Valadez	Bryan	Texas	77801	United States	6/22/15
Stacy Doyle	Denver	Colorado	80238	United States	6/22/15
Caroline tart	Goldsboro	North Carolina	27530	United States	6/22/15
Karen Winegardner	San Antonio	Texas	78213	United States	6/22/15
Lisa Wright	Bryan	Texas	77802	United States	6/22/15
Lee Standing	Garland	Texas	75043	United States	6/22/15
Gerry Williams	Waco	Texas	76706	United States	6/22/15
Randy Swiger	Tampa	Florida	33609	United States	6/22/15
Kimberly Hopper	Bryan	Texas	77803	United States	6/22/15
Courtnee Chapman	Milano	Texas	76556	United States	6/22/15
Lenora Krueger	Cameron	Texas	76520	United States	6/22/15
Larry pierce	Hearne	Texas	77859	United States	6/22/15
Amber Woods	Houston	Texas	77009	United States	6/22/15
Jannifer Taylor	Hearne	Texas	77859	United States	6/22/15
Heather wall	Gause	Texas	77857	United States	6/22/15
Howard anne baumann	Nordheim	Texas	78141	United States	6/22/15
James Henderson	Cameron	Texas	76520	United States	6/22/15
cheryl coronel	aransas pass	Texas	78336	United States	6/22/15
Carrie Decker	Porter	Texas	77365	United States	6/22/15
Michael Dewsnap	Temple	Texas	76502	United States	6/22/15
Gayla Amos	Hearne	Texas	77859	United States	6/22/15
JonCee Cumin	Deer Lodge	Montana	59722	United States	6/22/15
Joyce Heath	Kemp	Texas	75143	United States	6/22/15
Stacy Knight	Franklin	Texas	77856	United States	6/22/15
Brittney Lehoski	Hearne	Texas	77859	United States	6/22/15
Mary Brown	Nashua	New Hampshire	3062	United States	6/22/15
Bobby Boggan	Hearne	Texas	77859	United States	6/22/15
Judy Roper	Gause	Texas	77857	United States	6/22/15
Steve Banister	Bryan	Texas	77802	United States	6/22/15

Christina Fajardo	Austin	Texas	78704	United States	6/22/15
Neva Dick	Hearne	Texas	77859	United States	6/22/15
David lund	Pflugerville	Texas	78660	United States	6/22/15
Judy daniels	Franklin	Texas	77856	United States	6/22/15
Sherri Rasco	Hearne	Texas	77859	United States	6/22/15
Elena OConnor	Austin	Texas	78716	United States	6/22/15
James Allen	Hearne	Texas	77859	United States	6/22/15
Beverly Mathis	Belton	Texas	76513	United States	6/22/15
Amy Lowrey	Spring	Texas	77379	United States	6/22/15
Keenan Kmiec	Bryan	Texas	77802	United States	6/22/15
Monica Colson	Cypress	Texas	77429	United States	6/22/15
Frances Zeig	Hearne	Texas	77859	United States	6/22/15
Debra Corpora	Hearne	Texas	77859	United States	6/22/15
Vivian rollins	Wichita	Kansas	67204	United States	6/22/15
Laura Hoover	Somerville	Texas	77879	United States	6/22/15
William rockett	Prior Lake	Minnesota	55372	United States	6/22/15
Jeremy Conner	Austin	Texas	78731	United States	6/22/15
Kim Cozby	Burnet	Texas	78611	United States	6/22/15
Lindsey Parr	Cypress	Texas	77429	United States	6/22/15
Rita ONeil	Hearne,	Texas	77859	United States	6/22/15
Julie Hall	Diboll	Texas	75941	United States	6/22/15
Christine Wisian	Nordheim	Texas	78141	United States	6/22/15
Annette Eisenman	Houston	Texas	77024	United States	6/22/15
Danielle Tuttle	Saint Paul	Minnesota	55109	United States	6/22/15
Bethany Gabbard	Austin	Texas	78731	United States	6/22/15
Donald Palmer	Houston	Texas	77007	United States	6/22/15
Elizabeth Collette	Rockdale	Texas	76567	United States	6/22/15
Cindra Dolezalik	Ennis	Texas	75119	United States	6/22/15
Frank Wall	Round Rock	Texas	78665	United States	6/22/15
Cyd Cassone	College Station	Texas	77841	United States	6/22/15
Teri Raymond	Austin	Texas	78735	United States	6/22/15
Thomas Richey	Arlington	Texas	76013	United States	6/22/15
Michael Threadgill	Waco	Texas	76708	United States	6/22/15
Sue Lintelman	Liberty	Texas	77575	United States	6/22/15
Amber McCormack	Rockaway	New Jersey	7866	United States	6/22/15
Jandelyn Gallagher	Tomball	Texas	77375	United States	6/22/15
Allison Thrash	Leander	Texas	78641	United States	6/22/15
clara timmerman	Waller	Texas	77484	United States	6/22/15
Alicia Ramsey	San Antonio	Texas	78210	United States	6/22/15
Steven Dittfurth	Harrisonville	Missouri	64701	United States	6/22/15
Kerry Silvey	Gause	Texas	77857	United States	6/22/15
Laura johnson	Magnolia	Texas	77354	United States	6/22/15
Ashley Hestand	Leander	Texas	78641	United States	6/22/15
Juan Popoca	Leander	Texas	78641	United States	6/22/15
S D SHAFER	McKinney	Texas	75070	United States	6/22/15
Linda Trojacek	Hearne	Texas	77859	United States	6/22/15
John Clark	Gause	Texas	77857	United States	6/23/15
Virginia Wallace	Hearne	Texas	77859	United States	6/23/15

Karen McGraw	Austin	Texas	78738	United States	6/23/15
Carolyn Drewyor	College Station	Texas	77845	United States	6/23/15
Suzi Rinehart	Wharton	Texas	77488	United States	6/23/15
Betty Vermeire	College Station	Texas	77845	United States	6/23/15
Samantha Garcia	San Antonio	Texas	78261	United States	6/23/15
Clay Shafer	League City	Texas	77573	United States	6/23/15
Marsha Juhl	Franklin	Texas	77856	United States	6/23/15
Bryan Calk	College Station	Texas	77845	United States	6/23/15
Pat Hardy	Burleson	Texas	76097	United States	6/23/15
Sheryl Shafer	League City	Texas	77573	United States	6/23/15
Jennifer Blakely	Houston	Texas	77058	United States	6/23/15
Kristen Turpin	Springfield	Missouri	65807	United States	6/23/15
Linda Hale	Auburn	Indiana	46706	United States	6/23/15
K Lowe	Frisco	Texas	75035	United States	6/23/15
Bob Priestly	Houston	Texas	77007	United States	6/23/15
Pam Green	Spring	Texas	77379	United States	6/23/15
Lorri Laywell	Cameron	Texas	76520	United States	6/23/15
Christy Hewitt	Willis	Texas	77318	United States	6/23/15
Melissa mclean	Pearland	Texas	77581	United States	6/23/15
Cynthia Estill	Whitney	Texas	76692	United States	6/23/15
Nicki Walker	Houston	Texas	77095	United States	6/23/15
Zeni Smith	Calvert	Texas	77837	United States	6/23/15
Sharon barnett	Waxahachie	Texas	75165	United States	6/23/15
Lori poehl	Milano	Texas	76556	United States	6/23/15
J Farrington	Austin	Texas	78757	United States	6/23/15
Paula Phillips	Rockdale	Texas	76567	United States	6/23/15
Danielle Caveness	Magnolia	Texas	77355	United States	6/23/15
Misti Schulz	Dublin	Texas	76446	United States	6/23/15
Taylor Hansen	Bryan	Texas	77802	United States	6/23/15
R W Shamy Jr	Rockdale	Texas	76567	United States	6/23/15
Dianne Anthony	Arlington	Texas	76002	United States	6/23/15
Barbara Blakely	Dickinson	Texas	77539	United States	6/23/15
Mary Arrington	Milano	Texas	76556	United States	6/23/15
Terry Nevitt	Rockdale	Texas	76567	United States	6/23/15
Gloria Garrison	Harker Heights	Texas	76548	United States	6/23/15
Amber Basonic	Cameron	Texas	76520	United States	6/23/15
Eloise Daniel	Conroe	Texas	77385	United States	6/23/15
Charriss York	Dickinson	Texas	77539	United States	6/23/15
Danielle Donnelly	Rockdale	Texas	76567	United States	6/23/15
Stephanie Dewsnap	Temple	Texas	76502	United States	6/23/15
Kurt Walker	Houston	Texas	77095	United States	6/23/15
Kelly Niemann	Temple	Texas	76502	United States	6/23/15
Blake Niemann	Temple	Texas	76502	United States	6/23/15
Kristi bell	Gilmer	Texas	75644	United States	6/23/15
Ron finch	Minden	Nevada	89423	United States	6/23/15
shona bagley	amarillo	Texas	79109	United States	6/23/15
Midori Snyder	Tucson	Arizona	85712	United States	6/23/15
Kelly Walker	Cameron	Texas	76520	United States	6/23/15

Amanda Cunningham	Waco	Texas	76706	United States	6/23/15
Christopher Lawson	Thorndale	Texas	76577	United States	6/23/15
John Summers	College Station	Texas	77845	United States	6/23/15
Susan Scarpinato	Hearne	Texas	77859	United States	6/23/15
Sarah Eaker	Rockdale	Texas	76567	United States	6/23/15
David McGuire	Rockdale	Texas	76567	United States	6/23/15
Cody Yoakum	Rockdale	Texas	76567	United States	6/23/15
Tommie Christman	Milano	Texas	76556	United States	6/23/15
Jennifer Skrhak	Cameron	Texas	76520	United States	6/23/15
Julie Weir	Hearne	Texas	77859	United States	6/23/15
Tasha Wright	Watauga	Tennessee	37694	United States	6/23/15
Charles Hamilton	College Station	Texas	77845	United States	6/23/15
Desiree Reese	Thorndale	Texas	76577	United States	6/23/15
Cassey Weigt	Friendswood	Texas	77546	United States	6/23/15
Amanda Dent	Cameron	Texas	76520	United States	6/23/15
Christy Littleton	Dickinson	Texas	77539	United States	6/23/15
Susie Springrose	Hitchcock	Texas	77563	United States	6/23/15
Josh Wedemeier	Milano	Texas	76556	United States	6/23/15
Amy Parker	Cameron	Texas	76520	United States	6/23/15
Cynthia Olvera	College Station	Texas	77845	United States	6/23/15
Susana Salazar	Rogers	Texas	76569	United States	6/23/15
Allison Hand	Austin	Texas	78750	United States	6/23/15
Maria Jochec	Buckholts	Texas	76518	United States	6/23/15
larry kerlin	Thorndale	Texas	76577	United States	6/23/15
Hannah Skillman	Webster	Texas	77598	United States	6/23/15
Courtney Todd	Gause	Texas	77857	United States	6/23/15
linda Murrie	Dickinson	Texas	77539	United States	6/23/15
Leemai Thao	Magnolia	Texas	77354-3555	United States	6/23/15
Jordan Brown	Bay City	Texas	77414	United States	6/23/15
Megan Fischer	Cedar Park	Texas	78613	United States	6/23/15
Chelsea McMillon	Everett	Washington	98201	United States	6/23/15
Mark Cunningham	Austin	Texas	78758	United States	6/23/15
Shani Snoddy	Austin	Texas	78702	United States	6/23/15
KayKay McElwrath	Rockdale	Texas	76567	United States	6/23/15
Flor garcia	Austin	Texas	78724	United States	6/23/15
Peggy Watson	Dickinson	Texas	77539	United States	6/23/15
Anthony Ortiz	Manvel	Texas	77578	United States	6/23/15
Tanya Pedersen	Dickinson	Texas	77539	United States	6/23/15
John dean	Rockdale	Texas	76567	United States	6/23/15
angel atkins	Austin	Texas	78724	United States	6/23/15
Regina Earls	Round Rock	Texas	78681	United States	6/23/15
Ken Kesner	New Caney	Texas	77357	United States	6/23/15
Liinda Burns	Gause	Texas	77857	United States	6/23/15
Kathy Milillo	League City	Texas	77573	United States	6/23/15
Jennice Rinderknecht	Pflugerville	Texas	78660	United States	6/23/15
Kelly carlile	League City	Texas	77573	United States	6/23/15
Jennifer Mulac	Gause	Texas	77857	United States	6/23/15
Kristy Johnston	Magnolia	Texas	77354	United States	6/23/15

ivonne cortes	Austin	Texas	78724	United States	6/23/15
Kayla Graham	Cameron	Texas	76520	United States	6/23/15
Rebecca Jackson	Copperas Cove	Texas	76522	United States	6/23/15
Lisa Malone	Cameron	Texas	76520	United States	6/23/15
Theresa Taylor	Cameron	Texas	76520	United States	6/23/15
Larry Blevins	Rockdale	Texas	76567	United States	6/23/15
Maria Peterson	Frisco	Texas	75033	United States	6/23/15
Theresa White	Palestine	Texas	75803	United States	6/23/15
Jennifer Burgess	Leander	Texas	78641	United States	6/23/15
Caroline Wallace	Tomball	Texas	77375	United States	6/23/15
Sharon Schiellack	League City	Texas	77573	United States	6/23/15
Darlene Tina Hughes	kyle	Texas	7864"	United States	6/23/15
Gloria Follis	Cameron	Texas	76520	United States	6/23/15
Frances Basonic	Cameron	Texas	76520	United States	6/23/15
Deedra Jacob	Rockdale	Texas	76567	United States	6/23/15
Suzie Hawley	Manor	Texas	78653	United States	6/23/15
John Springrose	League City	Texas	77573	United States	6/23/15
Harold Shafer	Wharton	Texas	77488	United States	6/23/15
Susan Shafer	Wharton	Texas	77488	United States	6/23/15
Janice Peikert	Dickinson	Texas	77539	United States	6/23/15
Madge Luquette	Bryan	Texas	77807	United States	6/23/15
Ellen Shaffer	Austin	Texas	78748	United States	6/23/15
Keeta Garrett	Bryan	Texas	77808	United States	6/23/15
Cole Loal D.	Cameron	Texas	76520	United States	6/24/15
Shauna turner	Waco	Texas	76702	United States	6/24/15
Stanley Moore	Porter	Texas	77365	United States	6/24/15
Erin Daniels	Rockdale	Texas	76567	United States	6/24/15
Lindsey Summers	Cameron	Texas	76520	United States	6/24/15
George Junek	Cameron	Texas	76520	United States	6/24/15
Lindsey wilson	Leander	Texas	78641	United States	6/24/15
Jerry Caywood	Bastrop	Texas	78602	United States	6/24/15
Mary Rivera	Cameron	Texas	76520	United States	6/24/15
Carla Battle	Austin	Texas	78727	United States	6/24/15
Gwen Overturf	Franklin	Texas	77856	United States	6/24/15
Vicky Skillman	Richmond	Texas	77407	United States	6/24/15
David McMillon	Everett	Washington	98201	United States	6/24/15
Ginny Bagwell	New Braunfels	Texas	78130	United States	6/24/15
Laurin Lewis	Austin	Texas	78758	United States	6/24/15
Rachel Waldie	Austin	Texas	78749	United States	6/24/15
dillon little	Milano	Texas	76556	United States	6/24/15
Laurie Balliew	Phoenix	Arizona	85044	United States	6/24/15
Jennifer Palmeri	League City	Texas	77573	United States	6/24/15
Kelli McGee	Dickinson	Texas	77539	United States	6/24/15
Derek Marks	Magnolia	Texas	77354	United States	6/24/15
Emma Finto	Waco	Texas	76710	United States	6/24/15
Aimee Corbin	Kyle	Texas	78640	United States	6/24/15
Bill Blakely Jr.	Dickinson	Texas	77539	United States	6/24/15
Chantel albert	League City	Texas	77573	United States	6/24/15

Nick dellas	Austin	Texas	78727	United States	6/24/15
Jennifer Mabry	Converse	Texas	78109	United States	6/24/15
Stephanie brunson	San Antonio	Texas	78234	United States	6/24/15
Stevy curbow	League City	Texas	77573	United States	6/24/15
Randee Bozant	Pearland	Texas	77584	United States	6/24/15
Nancy Shockley	Durango	Colorado	81302	United States	6/24/15
Ariell Whitten	Dickinson	Texas	77539	United States	6/24/15
Ann Goodman	Bryan	Texas	77802	United States	6/24/15
Chelsea Mcgee	Dickinson	Texas	77539	United States	6/24/15
Sarah Barrentine	Austin	Texas	78748	United States	6/24/15
Mary Lara	Cameron	Texas	76520	United States	6/24/15
john riherd	McKinney	Texas	75070	United States	6/24/15
Tomascik John	Lincolnshire	Illinois	60069	United States	6/24/15
Mikey Simmons	Rockdale	Texas	76567	United States	6/24/15
Judith Harris	Rockdale	Texas	76567	United States	6/24/15
Ashley McBride	Rockdale	Texas	76567	United States	6/24/15
Becky Thurman	Rockdale	Texas	76567	United States	6/24/15
Nacole Garcia	Tampa	Florida	33647	United States	6/24/15
jackquelyn martin	Houston	Texas	77088	United States	6/24/15
Brenda Huddleston	Perryton	Texas	79070	United States	6/24/15
Traci Harbour	Spring	Texas	77381	United States	6/24/15
Mikel Reed	Gause	Texas	77857	United States	6/24/15
Mark Brantley	Cameron	Texas	76520	United States	6/24/15
Pattie Cooper	Milano	Texas	76556	United States	6/24/15
Emma Ribar	Buckholts	Texas	76518	United States	6/25/15
Rachel Flores	Rockdale	Texas	76567	United States	6/25/15
Bernadette Jochec	Buckholts	Texas	76518	United States	6/25/15
Carisa Richter	Montgomery	Texas	77356	United States	6/25/15
Sandra Hall	Denton	Texas	76205	United States	6/25/15
Hayden irwin	Shepherd	Texas	77371	United States	6/25/15
Roger Barron	Buckholts	Texas	76518	United States	6/25/15
Deana Hurt	Shreveport	Louisiana	71105	United States	6/25/15
Carolina Bolivar	Cameron	Texas	76520	United States	6/25/15
Bennie Nobles	Deer Park	Texas	77536	United States	6/25/15
Katie Cowgill Clayton	Houston	Texas	77084	United States	6/25/15
Gary Kornegay	Gause	Texas	77857	United States	6/25/15
Lillie Magee	Milano	Texas	76556	United States	6/26/15
Kimberly Gifford	Thorndale	Texas	76577	United States	6/26/15
Grant Goebel	Waco	Texas	76705	United States	6/27/15
Kimberly Hahn	Yorktown	Texas	78164	United States	6/27/15
Lisa Harris	Spring	Texas	77386	United States	6/27/15
Katie Kirkpatrick	Spotsylvania	Virginia	22553	United States	6/27/15
gina Kohlschmidt	Houston	Texas	77064	United States	6/27/15
Earline Clark	Redfield	Arkansas	72132	United States	6/27/15
Kurt Terry	Cameron	Texas	76520	United States	6/27/15
Russell Skillman	Friendswood	Texas	77546	United States	6/28/15
Lorene Farmer	Leander	Texas	78641	United States	6/28/15
Jeremy Christophersob	Conroe	Texas	77304	United States	6/28/15

James Stewart	Checotah	Oklahoma	74426	United States	6/28/15
Ron Berry	Orange Park	Florida	32073	United States	6/28/15
Jamie Branham	Montgomery	Texas	77356	United States	6/28/15
Debbie Smith	Caldwell	Texas	77836	United States	6/29/15
Ann-Marie Graham	Rockdale	Texas	76567	United States	6/29/15
Support Agent (01)	Kitchener	California	12345	United States	6/29/15
Deidre Dorough	Tyler	Texas	75703	United States	6/30/15
Sydney Creek	Milano	Texas	76556	United States	6/30/15
Sheila Lassetter	Gause	Texas	77857	United States	6/30/15
ricky birlew	Quinlan	Texas	75474	United States	6/30/15
Maggie DuBois	Milano	Texas	76556	United States	6/30/15
scott koenig	Gause	Texas	77857	United States	7/1/15
mike pickett	Caldwell	Texas	77836	United States	7/1/15
Kimberly Thomas	Austin	Texas	78758	United States	7/1/15
Jerod Thomas	Lockhart	Texas	78644	United States	7/1/15
Brandon Swason	Cameron	Texas	76520	United States	7/1/15
lacey russell	Weston	Texas	75097	United States	7/1/15
Gayle Barron	Roanoke	Texas	76262	United States	7/1/15
Lucille Brown	Gause	Texas	77857	United States	7/1/15
Contessa Harrison	Stephenville	Texas	76401	United States	7/1/15
Mary Wysong	Moody	Texas	76557	United States	7/1/15
Darla Willingham	Milano	Texas	76556	United States	7/1/15
cindy russell	Weston	Texas	75097	United States	7/2/15
Olga Bargas Avalos	Spring	Texas	77380	United States	7/2/15
Jackie Davenport	Cameron	Texas	76520	United States	7/2/15
Robbe Lane	Georgetown	Texas	78628	United States	7/2/15
Matthew Jentsch	Gause	Texas	77857	United States	7/2/15
Coddy Hickma	Montgomery	Texas	77316	United States	7/3/15
Olga Kandybina	Moscow		117321	Russian Federati	7/3/15
Stacey Wall	Gause	Texas	77857	United States	7/3/15
Gary Neal	Gause	Texas	77857	United States	7/3/15
Chris Read	McKinney	Texas	75070	United States	7/4/15
hayley stewart	Milano	Texas	76556	United States	7/4/15
Jose Rivera	SanJuan	Puerto Rico	924	United States	7/4/15
Lee Walters	Gause	Texas	77857	United States	7/4/15
Deborah Bryant	Houston	Texas	77055	United States	7/4/15
Christina Ponsot	Willis	Texas	77318	United States	7/4/15
Liz Metrik	Dallas	Texas	75252	United States	7/4/15
Paula Davies	San Antonio	Texas	78209	United States	7/5/15
Robert Goode	Annapolis	Maryland	21401	United States	7/6/15
katelynn Stewart	Milano	Texas	76556	United States	7/7/15
Ashley Shockley	Gause	Texas	77857	United States	7/7/15
Tommie Bakken	Milano	Texas	76556	United States	7/7/15
Leigh Owens	Milano	Texas	76556	United States	7/7/15
Jeri Reed	Mobile	Alabama	36605	United States	7/7/15
Joseph Lopez	Granger	Texas	76530	United States	7/7/15
Stephanie Lopez	Granger	Texas	76530	United States	7/7/15
Kimberly Munoz	College Station	Texas	77845	United States	7/7/15

Dianne Braudrick	Pflugerville	Texas	78660	United States	7/7/15
Adrian Watkins	Cameron	Texas	76520	United States	7/7/15
Dorcas Popham	Milano	Texas	76556	United States	7/7/15
Vicky Kirk	Rockdale	Texas	76567	United States	7/7/15
Wilma Owens	Rockdale	Texas	76567	United States	7/7/15
Crystal Brooks	Austin		78729	Tunisia	7/7/15
Josh Kennington	Seguin	Texas	78155	United States	7/7/15
Kasey Rosecrans	Rockdale	Texas	76567	United States	7/7/15
Mark Rangel	Wynnewood	Oklahoma	73098	United States	7/7/15
Kathleen Schulist	Menasha	Wisconsin	54952	United States	7/7/15
Jason gloger	Paige	Texas	78659	United States	7/8/15
Janet Svrcek	Rockdale	Texas	76567	United States	7/8/15
Sheila Lopez	Rockdale	Texas	76567	United States	7/8/15
melissa morgan-abbe	Gause	Texas	77857	United States	7/8/15
Amanda Wells	Rockdale	Texas	76567	United States	7/8/15
Hayleigh Lagrone	Milano	Texas	76556	United States	7/8/15
Dennis Sapp	Cameron	Texas	76520	United States	7/8/15
Amanda Archer	Daingerfield	Texas	75638	United States	7/8/15
sharon lewis	Milano	Texas	76556	United States	7/8/15
Anette Mincey	Fort Lauderdale	Florida	33314	United States	7/8/15
Sarah Little	Lubbock	Texas	79407	United States	7/9/15
Dawn Dorsett	Franklin	Texas	77856	United States	7/9/15
Lisa Heisey	Bryn Mawr	Pennsylvania	19010	United States	7/10/15
Elizabeth W.P.-Bretland	Delft			Netherlands	7/12/15
lily scott	Los Angeles	California	90016	United States	7/12/15
Debbie Taff	San Saba	Texas	76877	United States	7/12/15
Emily Ditto	Gause	Texas	77857	United States	7/12/15
Thomas Alexander	Tampa	Florida	33647	United States	7/14/15
Barkley Lagrone	Rockdale	Texas	76567	United States	7/15/15
Mary Heath	Hearne	Texas	77859	United States	7/15/15
James David Walker	Milano	Texas	76556	United States	7/15/15
Kelly Palladino	Valley Cottage	New York	10989	United States	7/16/15
Steven Gonzales	Austin	Texas	78735	United States	7/20/15
Roger Timmerman	Katy	Texas	77450	United States	7/21/15
Tommi Ivey	College Station	Texas	75287	United States	7/21/15
Jennifer Bullock	Reno	Nevada	89523	United States	7/22/15
patrick aidala	boca raton	Florida	33486	United States	7/22/15
Donna Sullins	Bryan	Texas	77802	United States	7/22/15
Madelyn Rodriguez	Big Sandy	Texas	75755	United States	7/24/15
Pam Rucker	Garland	Texas	75043	United States	7/24/15
Jaclyn Upshaw-Brown	Bryan	Texas	77803	United States	7/24/15
Carolyn Blaha	Bryan	Texas	77802	United States	7/24/15
Russell Thompson	Bryan	Texas	77807	United States	7/24/15
Dustin Grabsch	Bryan	Texas	77801	United States	7/24/15
Brian Peck	College Station	Texas	77841-0257	United States	7/24/15
Leslie Smola	Hutto	Texas	78634	United States	7/24/15
Martyn Hafley	Grand Prairie	Texas	75054	United States	7/27/15
Deborah Lott	Sloughhouse	California	95683	United States	7/29/15

Loretta Angus	Fernandina Beach	Florida	32034	United States	7/30/15
Carl Jones	Rockdale	Texas	76567	United States	8/2/15
Lenny Hoelscher	Cameron	Texas	76520	United States	8/2/15
clinton wallace	Rockdale	Texas	76567	United States	8/3/15
Cathy Lazarus	Calvert	Texas	77837	United States	8/10/15
charles Ellison	Franklin	Texas	77856	United States	8/10/15
melvin arbor	Hearne	Texas	77859	United States	8/10/15
Mary Jim Allen	Bremond	Texas	76629	United States	8/10/15
sherry mccartney	Hearne	Texas	77859	United States	8/10/15
Tom Broughton	Bryan	Texas	77807	United States	8/10/15
Bob Small	Franklin	Texas	77856	United States	8/10/15
Polly Morgan	Hearne	Texas	77859	United States	8/10/15
Greg Williams	Houston	Texas	77006	United States	8/11/15
Debra Owens-Coleman	Hearne	Texas	77859	United States	8/11/15
Steve Wyatt	Brazoria	Texas	77422	United States	8/11/15
Connie Ratliff	Cedar Lane	Texas	77415	United States	8/11/15
DOUGLAS JOHNSON	Conroe	Texas	77304	United States	8/11/15
Tom Pearson	Brenham	Texas	77833	United States	8/11/15
Anna Foerster	Yorktown	Texas	78164	United States	8/11/15
James McDaniel	Fairfax Station	Virginia	22039	United States	8/11/15
Randi Faust	La Marque	Texas	77568	United States	8/11/15
Matias Garza	Austin	Texas	78717	United States	8/11/15
David Balusek	Leander	Texas	78641	United States	8/11/15
Shelley Huettel	Lexington	Texas	78947	United States	8/11/15
Steve Lazarus	Calvert	Texas	77837	United States	8/11/15
Tiffani Crook	Austin	Texas	78754	United States	8/11/15
Meagan Clopton	Plano	Texas	75075	United States	8/11/15
David Goode	Lubbock	Texas	79414	United States	8/11/15
Adrian James	Westville	Indiana	46391	United States	8/11/15
Clint Barnette	Dallas	Texas	75238	United States	8/11/15
Sandy Smith	Cedar Lane	Texas	77415	United States	8/12/15
Betty Cooke	Bay City	Texas	77414	United States	8/12/15
Ron Martindale	Waco	Texas	76706	United States	8/12/15
Lynn Hagan	Gause	Texas	77857	United States	8/12/15
Kassie Kate	Bryan	Texas	77802	United States	8/12/15
Evan Vause	Gause	Texas	77857	United States	8/12/15
Jeana Feehery	Canonsburg	Pennsylvania	15317	United States	8/12/15
Pauline Sadek	Johnson City	Texas	78636	United States	8/12/15
Stella Taddeo I	Bryan	Texas	77801	United States	8/12/15
Cynthia Martinez	Shiner	Texas	77984	United States	8/12/15
Chris Wilson	Gause	Texas	77857	United States	8/12/15
Sonya Hanson	Katy	Texas	77494	United States	8/12/15
Beverly Carmichael	Houston	Texas	77005	United States	8/12/15
Bettie Childs	Missouri City	Texas	77459	United States	8/12/15
Nicola Cousins	Old Rayne		AB52 6RF	United Kingdom	8/12/15
kacy HOULTON	Victoria	Texas	77904	United States	8/12/15
Debra Ford	Meridian	Mississippi	39301	United States	8/12/15
Shannon Hernandez	College Station	Texas	77855	United States	8/12/15

Chelsea Soechting	College Station	Texas	77845	United States	8/13/15
Kelly Atkinson	New Braunfels	Texas	78130	United States	8/13/15
Cindy Delulio	Calvert	Texas	77837	United States	8/13/15
Brooks Lancaster	Bryan	Texas	77802	United States	8/13/15
Allie McConnell	College Station	Texas	77845	United States	8/13/15
mary c white	Hearne	Texas	77859	United States	8/13/15
Claudia Perez	Pasadena	Texas	77504	United States	8/13/15
Jason Kurten	College Station	Texas	77840	United States	8/13/15
Will Davis	College Station	Texas	77845	United States	8/13/15
Vivian Dixon	Gause	Texas	77857	United States	8/13/15
LuAnn Mannix	Rusk	Texas	75785	United States	8/13/15
Linda lewis	Bryan	Texas	77808	United States	8/13/15
Shelley Kopriva	Buckholts	Texas	76518	United States	8/13/15
Tristan Powers	Greensboro	North Carolina	27406	United States	8/13/15
mary hughes	Gause	Texas	77857	United States	8/13/15
Sheryl Hall	College Station	Texas	77845	United States	8/13/15
Dan Fischer	College Station	Texas	77845	United States	8/13/15
Reba Fischer	College Station	Texas	77845	United States	8/13/15
Dave Cunningham	Hearne	Texas	77859	United States	8/13/15
Brooke Larsen	Brazoria	Texas	77422	United States	8/14/15
Steve Wyatt	Brazoria	Texas	77422	United States	8/14/15
Sara Larsen	Brazoria	Texas	77422	United States	8/14/15
Darren Larsen	Brazoria	Texas	77422	United States	8/14/15
Tammy Moore	Crestview	Florida	32536	United States	8/14/15
BobbyJo Newell	Brazoria	Texas	77422	United States	8/14/15
Brittany Faith	Brazoria	Texas	77422	United States	8/14/15
Crystal bonner	Lufkin	Texas	75904	United States	8/14/15
Jessica Blevins	Lake Jackson	Texas	77566	United States	8/14/15
Patty Wyatt	Lake Jackson	Texas	77566	United States	8/14/15
monica nichols	Huntsville	Texas	77320	United States	8/14/15
Paige Hyer	Lake Jackson	Texas	77566	United States	8/14/15
Miranda Molina	Wharton	Texas	77488	United States	8/14/15
Crystal Moore	Vidalia	Louisiana	71373	United States	8/14/15
Gigi Canard	Brazoria	Texas	77422	United States	8/14/15
Hannah Smith	Waco	Texas	76707	United States	8/14/15
Julie Cooke	Gainesville	Texas	76240	United States	8/14/15
Justin Banda	Brazoria	Texas	77422	United States	8/14/15
marie taylor	clute	Texas	77566	United States	8/14/15
Brandy Bell	Hempstead	Texas	77445	United States	8/14/15
Ana Moralez	San Antonio	Texas	78254	United States	8/14/15
Becky Amble	Jonesboro	Arkansas	72401	United States	8/14/15
Celeste Dominguez	Angleton	Texas	77515	United States	8/14/15
Pamela Johnson	West Columbia	Texas	77486	United States	8/14/15
Paula Barboza	Watertown	Massachusetts	2472	United States	8/14/15
Amber Palmer	Columbia	Tennessee	38401	United States	8/14/15
Dakotah Van Huss	Waxahachie	Texas	75167	United States	8/14/15
Beatrice Carroll	Gause	Texas	77857	United States	8/14/15
Heaven Cranford	Sweeny	Texas	77480	United States	8/14/15

Theron Kirkpatrick	Brazoria	Texas	77422	United States	8/14/15
Elisabeth Huron	San Antonio	Texas	78230	United States	8/14/15
Shyann Case	Newcastle	Wyoming	82701	United States	8/14/15
Elizabeth kirkpatrick	Tampa	Florida	33647	United States	8/14/15
Thelondia's Wiltz	Rosharon	Texas	77583	United States	8/14/15
Jennifer Dehn	Battle Creek	Michigan	49015	United States	8/14/15
Charlcye Glenewinkel	Brazoria	Texas	77422	United States	8/14/15
Brian Hundle	Cameron	Texas	76520	United States	8/14/15
Lucy Soerens	Waxahachie	Texas	75165	United States	8/14/15
Rena Wyatt	Brazoria	Texas	77422	United States	8/14/15
brittany trevino	San Antonio	Texas	78244	United States	8/14/15
Frederick Johnston	West Columbia	Texas	77486	United States	8/14/15
Ashley Guffey	Brazoria	Texas	77422	United States	8/14/15
Tracie McCartney	Lake Jackson	Texas	77566	United States	8/14/15
Patricia Jordan	Sweeny	Texas	77480	United States	8/14/15
Jenna Senter	Grapevine	Texas	76051	United States	8/14/15
Cynthia Larsen	Damon	Texas	77430	United States	8/14/15
Starsha Frederickson	Helena	Montana	59602	United States	8/14/15
Elizabeth Robinson	Ennis	Texas	75119	United States	8/14/15
Rebecca Arrison	Rosenberg	Texas	77471	United States	8/14/15
Candice Nordhagen	Butte	Montana	59701	United States	8/14/15
Jenny Rodriguez	Brazoria	Texas	77422	United States	8/14/15
Melissa Melton	Angleton	Texas	77515	United States	8/14/15
Barbara Upah	Tampa	Florida	33647	United States	8/14/15
Greg Wyatt	Clute	Texas	77531	United States	8/14/15
Wendy Beem	Brazoria	Texas	77422	United States	8/14/15
Tabitha Ray	Brazoria	Texas	77422	United States	8/14/15
Rachel Ray	Brazoria	Texas	77422	United States	8/14/15
Ashley Robinson	Brazoria	Texas	77422	United States	8/14/15
Melissa Longino	Clute	Texas	77531	United States	8/14/15
Rhonda Frankum	Brazoria	Texas	77422	United States	8/14/15
Kasey King	Sweeny	Texas	77480	United States	8/14/15
Nancy Newton	Weymouth	Massachusetts	2188	United States	8/14/15
Debbie Larsen	Birmingham	Alabama	35223	United States	8/14/15
Bryan Meyer	Bay City	Texas	77414	United States	8/14/15
Holly Frederickson	Chester	Montana	59522	United States	8/14/15
James Wyatt	Prairieville	Louisiana	70769	United States	8/14/15
Donald Wyatt Jr.	Lake Jackson	Texas	77566	United States	8/14/15
Sheree Vainio	Helena	Montana	59602	United States	8/14/15
Courtney McCartney	Lake Jackson	Texas	77566	United States	8/14/15
Bianca Galindo	Fort Worth	Texas	76132	United States	8/14/15
Meagan Grieco	San Diego	California	92126	United States	8/14/15
Alecia Allday	Hockley	Texas	77447	United States	8/14/15
Jared Hackett	Brazoria	Texas	77422	United States	8/14/15
Serenity Hackett	West Columbia	Texas	77486	United States	8/14/15
Brittany Hardison	Clute	Texas	77531	United States	8/14/15
JOLYNNE MORRIS	LADONIA	Texas	75449	United States	8/14/15
Courtney Miculek	Needville	Texas	77461	United States	8/14/15

tracy gabriel	Decatur	Illinois	62521	United States	8/14/15
Ashley Mathews	Damon	Texas	77430	United States	8/14/15
Melinda Farris	Brazoria	Texas	77422	United States	8/14/15
Jenny Farris	Brazoria	Texas	77422	United States	8/14/15
Lisa Schaubroeck	Sweeny	Texas	77480	United States	8/14/15
Gretchen Finley	Brazoria	Texas	77422	United States	8/14/15
Kerry Finley	Brazoria	Texas	77422	United States	8/14/15
Dakota matcheski	West Columbia	Texas	77486	United States	8/14/15
JoAnn Martin	Crestview	Florida	32536	United States	8/14/15
jeniffer chancey	Sweeny	Texas	77480	United States	8/14/15
Alicia Mygland	E Helena	Montana	59635	United States	8/14/15
Cecile Kirk	Brazoria	Texas	77422	United States	8/14/15
lois shipman	Lake Jackson	Texas	77566	United States	8/14/15
Brenda Wyatt	Clute	Texas	77531	United States	8/14/15
Megan Dyer	Cedar Creek	Texas	78612	United States	8/14/15
Samantha Abernathy	Lubbock	Texas	79423	United States	8/14/15
Juanita Swango	Brazoria	Texas	77422	United States	8/14/15
Coley McGough	Brazoria	Texas	77422	United States	8/14/15
April Bogy	Helena	Montana	59601	United States	8/14/15
Kirstyn Gebhardt	Brazoria	Texas	77422	United States	8/14/15
Candice Sisk	Junction City	Kansas	66441	United States	8/14/15
tyler bogy	East Helena	Montana	59635	United States	8/14/15
Tracey Simoneau	Lake Jackson	Texas	77566	United States	8/14/15
Maegan Tipp	Angleton	Texas	77515	United States	8/14/15
EddySandy	Brazoria	Texas	77422	United States	8/14/15
Brooke morgan	Brazoria	Texas	77422	United States	8/14/15
Randall Taylor	West Columbia	Texas	77486	United States	8/14/15
Lacey Jones	Sweeny	Texas	77480	United States	8/14/15
Hollis Bodenman	Brazoria	Texas	77422	United States	8/14/15
Karla Nugent	Brazoria	Texas	77422	United States	8/14/15
Adrian Harris	Lake Jackson	Texas	77566	United States	8/14/15
Ty Wyatt	San Marcos	Texas	78666	United States	8/14/15
Christopher Case	Newcastle	Wyoming	82701	United States	8/14/15
deanna nash	Angleton	Texas	77515	United States	8/14/15
Elizabeth Royer	Havre	Montana	59501	United States	8/14/15
Joy Helton	Brazoria	Texas	77422	United States	8/14/15
Lysondra Gernand	Humble	Texas	77346	United States	8/14/15
Ashley Lane	Station Town		TS28 5DH	United Kingdom	8/14/15
Patricia Kilian	Lake Jackson	Texas	77566	United States	8/14/15
Sherry Zimmerle	Brazoria	Texas	77422	United States	8/14/15
Jessica Rios	Clute	Texas	77531	United States	8/14/15
cathy wright	Clute	Texas	77531	United States	8/14/15
alma garrett	Hempstead	Texas	77445	United States	8/14/15
Christina Hodges	Freeport	Texas	77541	United States	8/14/15
Elizabeth Taylor	Arlington	Washington	98223	United States	8/14/15
Tabitha McPherson	Baytown	Texas	77521	United States	8/14/15
Jennifer Lahr	Louisville	Kentucky	40203	United States	8/14/15
Tanya Hawkins	West Columbia	Texas	77486	United States	8/14/15

Jeannie Hernandez	Brazoria	Texas	77422	United States	8/14/15
Kim Foley	Brazoria	Texas	77422	United States	8/14/15
Tanya Cortez	Clute	Texas	77531	United States	8/14/15
Deb Riley	Port Lavaca	Texas	77979	United States	8/14/15
Marvin Willis	Angleton	Texas	77515	United States	8/14/15
George Harris	Lake Jackson	Texas	77566	United States	8/14/15
Karen Shelton	Brazoria	Texas	77422	United States	8/14/15
Elizabeth Henderson	Brazoria	Texas	77422	United States	8/14/15
Corrie Gibson	West Columbia	Texas	77486	United States	8/14/15
tonya miller	Angleton	Texas	77515	United States	8/14/15
Heather Wyatt	Lake Jackson	Texas	77566	United States	8/14/15
Retha Carter	Lake Jackson	Texas	77566	United States	8/14/15
Rachael Cohen	Clute	Texas	77531	United States	8/14/15
Stephanie lacombe	Sweeny	Texas	77480	United States	8/14/15
Teodoro Aguirre	Brazoria	Texas	77422	United States	8/14/15
Lisa Myers	Brazoria	Texas	77422	United States	8/14/15
Randy Shafer	Bryan	Texas	77802	United States	8/14/15
Julia Kirkpatrick	Pflugerville	Texas	78660	United States	8/14/15
lori travis	Brazoria	Texas	77422	United States	8/14/15
Jaci Reese	Lake Jackson	Texas	77566	United States	8/14/15
Dominique George	Lake Jackson	Texas	77566	United States	8/14/15
Ayssa Gaston	Angleton	Texas	77515	United States	8/14/15
Melanie LeBouef	Brazoria	Texas	77422	United States	8/14/15
betty wells	Angleton	Texas	77515	United States	8/14/15
Brittney Cantrel	West Columbia	Texas	77486	United States	8/14/15
Richard Bowles	Reno	Nevada	89508	United States	8/14/15
Jeanie Pruett	Cache	Oklahoma	73527	United States	8/14/15
Beth Coker	Brazoria	Texas	77422	United States	8/14/15
Britany Lopez	Sweeny	Texas	77480	United States	8/14/15
Dayna Bickham	West Columbia	Texas	77486	United States	8/14/15
Savannah Hines	Woodson	Texas	76491	United States	8/14/15
malia taylor	Lake Jackson	Texas	77566	United States	8/14/15
Sheri Frankum	West Columbia	Texas	77486	United States	8/14/15
Viola wyatt	Lake Jackson	Texas	77566	United States	8/14/15
Ronnie Day	Gause	Texas	77857	United States	8/14/15
TERRY BAILEY	BRAZORIA	Texas	77422	United States	8/14/15
Stacey Cutler	Houston	Texas	77007	United States	8/14/15
Veronica Hernandez	Alvin	Texas	77511	United States	8/14/15
Rebekah Adams	Mountain Home Air Force	Idaho	83648	United States	8/14/15
Brad DuBose	West Columbia	Texas	77486	United States	8/14/15
Carla Mangrum	Livingston	Texas	77351	United States	8/14/15
Susan Miculka	College Station	Texas	77845	United States	8/14/15
Tracee Tollett	Lake Jackson	Texas	77566	United States	8/14/15
christina meier	Lake Jackson	Texas	77566	United States	8/14/15
James LeCompte	Clute	Texas	77531	United States	8/14/15
Denise Eubanks	Brazoria	Texas	77422	United States	8/14/15
Debbie Ray	Brazoria	Texas	77422	United States	8/14/15
Misty Tollett	Ozark	Missouri	65721	United States	8/14/15

Julia Peden	Glasgow	Kentucky	42141	United States	8/14/15
Kaysie Lackey	Knoxville	Tennessee	37934	United States	8/14/15
Briana Lewis	Angleton	Texas	77515	United States	8/14/15
Micah Peden	Glasgow	Kentucky	42141	United States	8/14/15
Linda Danford	Greenwood	Arkansas	72936	United States	8/14/15
Mary Pressley	Texas City	Texas	77591	United States	8/14/15
Erin Kenner	Alvin	Texas	77511	United States	8/14/15
Ana Garza	Sweeny	Texas	77480	United States	8/14/15
Frieda Thurman	Clute	Texas	77531	United States	8/14/15
Jeff Frankum	Lake Jackson	Texas	77566	United States	8/14/15
Sherrie Quebedeaux	Brazoria	Texas	77422	United States	8/14/15
Sharen Rickman	Lolita	Texas	77971	United States	8/14/15
Sherry Davis	Cleburne	Texas	76033	United States	8/14/15
Miranda Hawk	Oak leaf	Texas	Oak leaf	United States	8/14/15
Susan Olmstead	Freeport	Texas	77541	United States	8/14/15
Tabitha Kendall	Nowata	Oklahoma	74048	United States	8/14/15
Brian Schaefer	Clute	Texas	77531	United States	8/14/15
james BUSH	Mentor	Ohio	44060	United States	8/14/15
Brittney Hunt	Kyle	Texas	78640	United States	8/14/15
Carol Breazeale	Brazoria	Texas	77422	United States	8/14/15
Marie Williams	West Columbia	Texas	77486	United States	8/14/15
Candice Massoletti	Sweeny	Texas	77480	United States	8/14/15
Marcia Swinehart	Tomball, Tx	Texas	77375	United States	8/14/15
Chance Frankum	Angleton	Texas	77515	United States	8/14/15
Clinton Hallett	Nowata	Oklahoma	74048	United States	8/14/15
Cheryl Rosen	Jacksonville	North Carolina	28540	United States	8/14/15
Lisa Stewart	Lake Jackson	Texas	77566	United States	8/14/15
Amber Glowski	Tomball	Texas	77375	United States	8/14/15
Tanya Gernand	Brazoria	Texas	77422	United States	8/14/15
Fred Gernand	Brazoria	Texas	77422	United States	8/14/15
Vena Johns	Spring Hill	Tennessee	37174	United States	8/14/15
Christy Bragg	Brazoria	Texas	77422	United States	8/14/15
Cappy Walzel	Sweeny	Texas	77480	United States	8/14/15
Janelle Miller	Porter	Texas	77365	United States	8/14/15
Krista Harrington	West Columbia	Texas	77486	United States	8/14/15
Jennifer Bridges	West Columbia	Texas	77486	United States	8/14/15
Thomas blevins	Lake Jackson	Texas	77566	United States	8/14/15
Cathy holdsworth	Tomball	Texas	77377	United States	8/14/15
Tabitha Durant	Abilene	Texas	79605	United States	8/14/15
Edith Cobarrubias	DeSoto	Texas	75115	United States	8/14/15
Kelley Bean	Spring	Texas	77388	United States	8/14/15
Diana Cantrell	Pearland	Texas	77584	United States	8/14/15
Amber Kirkpatrick	Jasper	Texas	75951	United States	8/14/15
Shanna Guenther	Maxwell	Texas	78656	United States	8/14/15
LaSaundra Davis	Clute	Texas	77531	United States	8/14/15
Dustin Larsen	Alice	Texas	78332	United States	8/14/15
Teresa Cowey	Freeport	Texas	77541	United States	8/14/15
Willie cowey	Freeport	Texas	77541	United States	8/14/15

dorothy ledford	Brazoria	Texas	77422	United States	8/14/15
Holly French	Brazoria	Texas	77422	United States	8/14/15
tara green	Seville	Florida	32190	United States	8/14/15
Eve Chen	Lake Jackson	Texas	77566	United States	8/14/15
Tiffany Blackstock	Brazoria	Texas	77422	United States	8/14/15
Connie Caveness	Magnolia	Texas	77355	United States	8/14/15
Lisa Hannah	Brazoria	Texas	77422	United States	8/14/15
Janae Fridelle	George West	Texas	78022	United States	8/14/15
Jennifer Jones	Angleton	Texas	77515	United States	8/14/15
Andria Barnes	Red Oak	Texas	75154	United States	8/14/15
Kami Jordan	Floresville	Texas	78114	United States	8/14/15
Dora Raney	Red Oak	Texas	75154	United States	8/14/15
Kerri Ellington	Tomball	Texas	77377	United States	8/14/15
Cynthia Rodriguez	Brazoria	Texas	77422	United States	8/14/15
Julio Rodriguez	Brazoria	Texas	77422	United States	8/14/15
Jessica Shanzer	La Vernia	Texas	78121	United States	8/14/15
maria de la cruz	Somerset	Texas	78069	United States	8/14/15
Michelle Jones Carlson	League City	Texas	77573	United States	8/14/15
Ethan Buchanan	Brazoria	Texas	77422	United States	8/14/15
Mary Waldson	Gause	Texas	77857	United States	8/14/15
Megan Ringgold	West Columbia	Texas	77486	United States	8/14/15
Richard Larsen Larsen	Damon	Texas	77430	United States	8/14/15
Debra Craddock	Freeport	Texas	77542	United States	8/14/15
Marlinda Martin	Brazoria	Texas	77422	United States	8/14/15
Carolyn Anderson	Bozeman	Montana	59718	United States	8/14/15
christi knight	Oklahoma City	Oklahoma	73114	United States	8/14/15
Jim Pedigo	New Caney	Texas	77357	United States	8/14/15
michael jordan	Floresville	Texas	78114	United States	8/14/15
Larry Foley	Brazoria	Texas	77422	United States	8/14/15
Makayla foley	Brazoria	Texas	77422	United States	8/14/15
Tammy Galvan	West Columbia	Texas	77486	United States	8/14/15
sharon pyeatt	Lake Jackson	Texas	77566	United States	8/14/15
Erin Ebert	Austin	Texas	78741	United States	8/15/15
julie farris	Brazoria	Texas	77422	United States	8/15/15
Stanley Farris	Brazoria	Texas	77422	United States	8/15/15
Tarryn Eddy	Brazoria	Texas	77422	United States	8/15/15
Tori Kellis	Sweeny	Texas	77480	United States	8/15/15
James Davis	Brazoria	Texas	77422	United States	8/15/15
rodger larsen	sweeny	Texas	77480	United States	8/15/15
Greg krenek	Pearland	Texas	77584	United States	8/15/15
Frances Socha	Lake Jackson	Texas	77566	United States	8/15/15
Abigail davis	Brazoria	Texas	77422	United States	8/15/15
Edward Craddock	Lake Jackson	Texas	77566	United States	8/15/15
Jessy Murphy	San Antonio	Texas	78232	United States	8/15/15
Lisa Ckement	Bryan	Texas	77802	United States	8/15/15
Glenda Lane	Brazoria	Texas	77422	United States	8/15/15
Lynette Listak	Brazoria	Texas	77422	United States	8/15/15
Cory Wilcox	Channelview	Texas	77530	United States	8/15/15

Laura Morton	Brazoria	Texas	77422	United States	8/15/15
Brittanie Wilcox	Waterloo	New York	13165	United States	8/15/15
Martha Mays	Lake Jackson	Texas	77566	United States	8/15/15
Tina Robinson	Brazoria	Texas	77422	United States	8/15/15
Todd Canard	Brazoria	Texas	77422	United States	8/15/15
Patrick gibson	West Columbia	Texas	77486	United States	8/15/15
Sherri Higdon	Brazoria	Texas	77422	United States	8/15/15
Branson Gibson	West Columbia	Texas	77486	United States	8/15/15
Dorella Hester	Brazoria	Texas	77422	United States	8/15/15
Destiny Jerez	Angleton	Texas	77515	United States	8/15/15
Lee Ann Smith	Angleton	Texas	77515	United States	8/15/15
Jordan Stephens	Clute	Texas	77531	United States	8/15/15
bria Cryer	Brazoria	Texas	77422	United States	8/15/15
Lori Doak	Freeport	Texas	77541	United States	8/15/15
Jessica Weston	Sweeny	Texas	77480	United States	8/15/15
Shawn Smith	Buckhannon	West Virginia	26201	United States	8/15/15
Mia Ward	Brazoria	Texas	77422	United States	8/15/15
Brandi Paris	Brazoria	Texas	77422	United States	8/15/15
Peggy Taylor	Brazoria	Texas	77422	United States	8/15/15
Mr and Mrs Blevins	Sweeny	Texas	77480	United States	8/15/15
Omar Ramirez	Brazoria	Texas	77422	United States	8/15/15
Michelle Serrano	Smyrna	Tennessee	37167	United States	8/15/15
Cheyanne Lowery	West Columbia	Texas	77486	United States	8/15/15
art ramirez	Brazoria	Texas	77422	United States	8/15/15
Richard Smith	Angleton	Texas	77515	United States	8/15/15
Jeff Cobb	Pasadena	Texas	77505	United States	8/15/15
Lori Warren	Brazoria	Texas	77422	United States	8/15/15
Shanna Jacobs	Brazoria	Texas	77422	United States	8/15/15
Melissa Head	Brazoria	Texas	77422	United States	8/15/15
Kimberly Rice	Milano	Texas	76556	United States	8/15/15
Lisa Swift	Missouri City	Texas	77489	United States	8/15/15
Amanda Sanchez	Sweeny	Texas	77480	United States	8/15/15
Bradley Bryant	Clute	Texas	77531	United States	8/15/15
Tamara Michel	West Columbia	Texas	77486	United States	8/15/15
Amanda Biever	West Columbia	Texas	77486	United States	8/15/15
Amanda Wetzel	Brazoria	Texas	77422	United States	8/15/15
Cynthia Butler	West Columbia	Texas	77486	United States	8/15/15
Kelsey Forrester	Brazoria	Texas	77422	United States	8/15/15
Audrey young	Lake Jackson	Texas	77566	United States	8/15/15
Marian Johnston	Las Vegas	Nevada	89148	United States	8/15/15
Sabrina Stuckey	Ferriday	Louisiana	71334	United States	8/15/15
Natalie Dishongh	West Columbia	Texas	77486	United States	8/15/15
Crystal Norris	Vidalia	Louisiana	71373	United States	8/15/15
Christopher Schiele	Vidalia	Louisiana	71373	United States	8/15/15
Belle Hernandez	Boling	Texas	77420	United States	8/15/15
Heather Jenkins	Clayton	Louisiana	71326	United States	8/15/15
Brittney LaBreck	Freeport	Texas	77541	United States	8/15/15
Bonnie Townsend	Ferriday	Louisiana	71334	United States	8/15/15

Barbara Smith	Tomball	Texas	77375	United States	8/15/15
Rodney Newell	Brazoria	Texas	77422	United States	8/15/15
Lauren Nugent	Sweeny	Texas	77480	United States	8/15/15
Ashlyn Bodenman	Austin	Texas	78723	United States	8/15/15
Heather Martin	North Pole	Alaska	99705	United States	8/15/15
Chelsea Christian	Sweeny	Texas	77480	United States	8/15/15
Morghan Sanders	Larose	Louisiana	70373	United States	8/15/15
laurence thompson	West Columbia	Texas	77486	United States	8/15/15
Gretchen Gately	Lake Jackson	Texas	77566	United States	8/15/15
Jeanene LaPointe	West Columbia	Texas	77486	United States	8/15/15
Victoria Davenport	Brazoria	Texas	77422	United States	8/15/15
Kimberly Stewart	Wisner	Louisiana	71378	United States	8/15/15
Ashley Gregory	Brazoria	Texas	77422	United States	8/15/15
Kathy Davis	Lake Jackson	Texas	77566	United States	8/15/15
Eliza Biondi	Lake Jackson	Texas	77566	United States	8/15/15
Natalia Monzon	Lake Jackson	Texas	77566	United States	8/15/15
Shannon Massie	San Antonio	Texas	78260-2403	United States	8/15/15
Skyler Woods	Brazoria	Texas	77422	United States	8/15/15
Alison Benton	Angleton	Texas	77515	United States	8/15/15
Jeanette Baker	Cypress	Texas	77429	United States	8/15/15
Shelby Prihoda	Brazoria	Texas	77422	United States	8/15/15
Bretton Woods	Baskin	Louisiana	71219	United States	8/15/15
Tiffany Ansley	Henderson	Kentucky	42420	United States	8/15/15
Ella Barnett	West Columbia	Texas	77486	United States	8/15/15
Katelyn Romero	West Columbia	Texas	77486	United States	8/15/15
brian crane	Henderson	Kentucky	42420	United States	8/15/15
Lynn Johnese	Matagorda	Texas	77457	United States	8/15/15
Brittany Davis	New Braunfels	Texas	78130	United States	8/15/15
Kasey Auer	Bay City	Texas	77414	United States	8/15/15
steven cook	Baytown	Texas	77521	United States	8/15/15
J. Corban Tackitt	Granite Bay	California	95746	United States	8/15/15
Sue Webb	Austin	Texas	78749	United States	8/15/15
Ashley Williams	Waxahachie	Texas	75165	United States	8/15/15
Buddha Nepal	San Antonio	Texas	78240	United States	8/15/15
Louise Neill	Lake Jackson	Texas	77566	United States	8/15/15
Kelsey Watson	San Antonio	Texas	78258	United States	8/15/15
Heather Meyer	Bay City	Texas	77414	United States	8/15/15
Birdee Robbins	Lake Jackson	Texas	77566	United States	8/15/15
Deborah Rand	Waterloo	New York	13165	United States	8/15/15
Elissa Kahla	Lake Jackson	Texas	77566	United States	8/15/15
Jenna terry	West Columbia	Texas	77486	United States	8/15/15
Kayelyn Boone	Montgomery	Alabama	36113	United States	8/15/15
Jacey Brake	West Columbia	Texas	77486	United States	8/15/15
Tina Yonts	Brazoria	Texas	77422	United States	8/15/15
krystle argo	Brazoria	Texas	77422	United States	8/15/15
Lauren Grayson	Sweeny	Texas	77480	United States	8/15/15
Robin Mize	Waterproof	Louisiana	71375	United States	8/15/15
Samantha Coleman	Richmond	Texas	77406	United States	8/15/15

David Chow	Lake Jackson	Texas	77566	United States	8/15/15
Mary Hernandez	Brazoria	Texas	77422	United States	8/15/15
hazel LaPoint	Pensacola	Florida	32504	United States	8/15/15
Brenda Parks	Houston	Texas	77044	United States	8/15/15
Robert Meiresonne	Santa Fe	Texas	77517	United States	8/15/15
Brandi Booth	Angleton	Texas	77515	United States	8/15/15
mary goodrum	Freeport	Texas	77541	United States	8/15/15
Dustin Vernor	Utopia	Texas	78884	United States	8/15/15
Deanna Massie	Austin	Texas	78737	United States	8/15/15
twila mann	Lake Jackson	Texas	77566	United States	8/15/15
Melissa Vaculin	Cameron	Texas	76520	United States	8/15/15
Gabrielle Hernandez	Brazoria	Texas	77422	United States	8/15/15
Heather Huber	Houston	Texas	77064	United States	8/15/15
Jessica Watson	Mansfield	Texas	76063	United States	8/15/15
Sharon Kimbrough	Clute	Texas	77531	United States	8/15/15
Katie Vogelsang	Milano	Texas	76556	United States	8/15/15
Linda Nall	Brazoria	Texas	77422	United States	8/15/15
maria torres	Grand Prairie	Texas	75051	United States	8/15/15
Susan Lewis	Brazoria	Texas	77422	United States	8/15/15
kelly thornton	Aubrey	Texas	76227	United States	8/15/15
celinda cox	Brazoria	Texas	77422	United States	8/15/15
Susan moore	Sunnyvale	Texas	75182	United States	8/15/15
Kayla Kmiec	Brazoria	Texas	77422	United States	8/15/15
Irene Jahns	Cornelius	North Carolina	28031	United States	8/15/15
Cheryl Walker	Milano	Texas	76556	United States	8/15/15
Joseph Bermea	Pflugerville	Texas	78660	United States	8/15/15
James Chevrier	Regina		S4T 0J8	Canada	8/15/15
Marla Bermea	Pflugerville	Texas	78660	United States	8/15/15
Brittany young	Brazoria	Texas	77422	United States	8/15/15
Kelli Pate	Brazoria	Texas	77422	United States	8/15/15
Brandt Sparks	Houston	Texas	77098	United States	8/15/15
Shyla Higginson	Alvin	Texas	77511	United States	8/15/15
Amber Kahla	Houston	Texas	77057	United States	8/15/15
Cole Hickman	Fargo	North Dakota	58103	United States	8/15/15
Rachel D. Burt	Bay City	Texas	77414	United States	8/16/15
Laquita Quinn	Brazoria	Texas	77422	United States	8/16/15
Kimberly Bennett	Tomball	Texas	77377	United States	8/16/15
Lori Young	Tomball	Texas	77375	United States	8/16/15
Shailen Singh	College Station	Texas	77845	United States	8/16/15
Candace Webb	Austin	Texas	78749	United States	8/16/15
Debe Rodgers	Wetumpka	Alabama	36093	United States	8/16/15
Rhonda Livingston	Sweeny	Texas	77480	United States	8/16/15

PETITION

Stop the Government Takeover of our Land and Homes!

Oppose the Little River Off-Channel Reservoir!

GET INFORMED. GET INVOLVED.

Join the listserv by emailing
stop.little.river.ocr@gmail.com
or
Follow us on Facebook
Stop Little River Off-Channel Reservoir

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Oppose the Little River Off-Channel Reservoir!

The Brazos G Water Planning Group, appointed by the Texas Water Development Board, is attempting to implement a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood over 4,300 acres of private land in the area between Texas Highway 79 near Milano and FM 2095 near Gause in Milam County, Texas.

This devastating action would take historical land tied to the El Camino Real National Trail, impact agriculture, remove wildlife, and take away our precious natural resources. Farms and ranches that have been owned and operated by Milam County families for generations would be inundated! It would also flood the site of the Pin Oak Cemetery, which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission.

Although all the environmental issues are not known at the present, there is potential for more acquisition and management of additional land due to wildlife habitat mitigation as noted in 4.7-24 of the Initially Prepared 2016 Brazos G Regional Water Plan. In other words, more land could be taken in the area to relocate wildlife whose habitat will be covered with water. Please get informed, get involved, and take action! Send questions to stop.little.river.ocr@gmail.com.

For more information search for: Initially Prepared 2016 Brazos G Regional Water Plan

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We, the undersigned citizens of Milam and surrounding counties, declare our support for private property rights and our opposition to the Brazos G Water Planning Group's attempt to seize private property in our counties.

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
JESSE STRACENER	MILAM	
JERALD WISE	116 KENTE DRIVE CAMERON, TX 76520	
D.W. Lindsey	PO Box 12 Gause	
Cathy Lamarus	11685 FM 2159 Calvert	
Lois Wilson	Box 425 Gause	
LINDA CORNELIUS	355 FM 485, HEARNE	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Karen Rose	9531 CR 353 Gause, Tx 77857 Milam	Karen Rose
Don Rose	9531 CR 353 Gause, Tx 77857 Milam	Don Rose
Joe Hobbs	4891 Co. Rd. 343 Gause, Tx. 77857 Milam	Joe Hobbs
Bennie Pontruff	3246 FM 3242 Milano, Tx	
Kathy Turner	Box 13 Gause Tx 77857	Kathy Turner
Mary Neely	CR358 Gause, TX	Mary Neely
[illegible]	CR 358 Gause, Tx	
Kay Wibble	448 CR 350 Gause, TX	Kay Wibble
[illegible]	448 CR 350 Gause, TX	
Patricia Kanarr	8432 CR 342 Milano TX 76556	Patricia Kanarr
VIRGINIA Kipp	8246 CR 342 Milano TX 76556	Virginia Kipp
Cindy Bolch	508 CR 379 Cameron, TX 76520	Cindy Bolch
Joyce Conner	12374 FM 2095 Gause, TX 77857	Joyce Conner
Connie Dent	4654 CR 353 Gause, TX 77857	Connie Dent
Rebecca Holmes	PO Box 95 Milano, TX 76556	Rebecca Holmes
Ruth Hardy	1228 C.Rd. 348 Lp. Gause, TX.	Ruth Hardy
Miranda Stein	PO Box 98 Gause TX 77857	Miranda Stein
Beverly Cunningham	647 CR 347 LP Gause	Beverly Cunningham
Ross Cunningham	647 CR 347 LP Gause	Ross Cunningham
Iris Elayne Day	11666 FM 2095 Gause 77857	Iris E Day
Ronnie Day	11666 FM 2095 77857	Ronnie Day
Charmaine Mueller	11995 FM 2095 77857	Charmaine Mueller

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
[illegible]	12231 C 7th Ln	
Mark Wall	290 CR343	Mark Wall
Madalene Morse	2974 CR 343	M Morse
Mark A Morse	2974 CR 343	Mark A Morse
Joy Graham	10958 CR 440	M. Joy Graham
Amanda Dent	490 CR 238B / Milan BRAZOS COUNTY	A Dent
Michael Shehane	149 Walnut Loop College Station, TX 77845	
Cody Wall	121 Elm Street Gause, TX 77857	
Judy Marks	448 County Road 352	Judy Marks
Tee Joe Mark	"	Tee Joe MARKS
Dennis Owen	3555 FM3242	Dennis Owen
Scott Konvicka	2283 C.R. 343	Scott Konvicka
Mary F. Mathews	115 West Cherry P.O. Box 113 Gause, TX.	
Mike Konvicka	2600 CR 343 GAUSE TX	
Dewey Pruner	5221 C.R. 264 Gause	Dewey Pruner
Mary Walden	1004 22 Hills Rd. Gause	Mary Walden
Jack L Walden	1004 22 Hills Gause	Jack L Walden
Cody Wall	3801 CR 343 Gause TX	
Mike Conner	12374 FM 2095, Gause, Tx	
V. V. Turner	PO BX 406 GAUSE TX	V.V. TURNER
Gary Westbrook	PO Box 127, Milano TX	
Deborah Russell	20310 Mammoth Falls Dr. Tomball, TX 77375 Harris County	Deborah Russell

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Kim Hahn	5183 Hwy 119 N Yorktown, TX 78164 / DeWitt	Kim Hahn
Melissa Shehane	149 Walcourt Loop College Station, Tx 77845 Brazos	Melissa Shehane
Chad Hahn	5183 N Hwy 119 Yorktown, 78164	Chad Hahn

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
KIRBY FLEMING	MILAM	
NORA ANZALDUA	MILAM	
DON WYATT	386 CR339 MILAM	
Danny Zawadzke	1643 CR 343 Gause, TX 77857 Milam	
~~Joe Hobbs~~ Joe Hobbs	4891 Co. Rd 343 Gause, TX 77857	
BLAKE Hobbs	4891 Co. Rd 343 Gause, TX 77857	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Bo Parson	P.O. Box 62 Gause TX Milam	
J.R. Cobb	P.O. Box 31 Gause TX 77857	
Todd Hedley	2178 CR 243 Gause TX	Todd H
	→ mail - 6325 Scott Lane Bryan TX 77808	
Jean A. Bohara	502 E 12th St. Cameron TX 76520 Milam	
D. L. Barkemeyer, County Judge	1025 Fannin Cameron TX 76520	

Stop the Government Takeover of our Land and Homes!

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
[illegible]	[illegible]	
CLEO STEWART	6205 CR 342 MILANO, TX. 76556	
Betty Cameron	1115 E Cameron St Rockdale TX 769	
Jay Murello	11995 FM 2095 Gause, TX. 77857	
Charmaine Murello	11995 FM 2095 Gause TX 77857	
Mary Cameron	1115 E. Cameron Rockdale, TX.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Robert Schlemmer	6925 CR 479 MILANO TX.	
Alese Redmon	989 C.R. 346	Alese Redmon
Carla Grigsby	Rockdale	Carla Grigsby
Charles Grigsby	Rockdale	Charles Grigsby
Vivian Titsworth 355 County	Milam	Vivian Titsworth
Odessa Payne	Milam	Odessa Payne
Joshua McManus 21899 Gause, TX		Joshua McManus
TJ Houston	Hearne	TJ Houston
L.W. Mast	Cameron	Loyd L Mast
Elma Carter	Cameron	Elma Carter
Anthony Carter	Cameron	Anthony Carter
Eddy Lopez	Milano	Eddy Lopez
Cassandra McClendon	Milano	Cassandra McClendon
Marsha Brown	Valley Junction	
M.J. Brown	Valley Junction	
Arthur Payne	Milano	Arthur Payne
Mary Curry	Franklin / Robertson	Mary Curry
Mike Curry	Franklin / Robertson	Mike Curry
Shirley Lange	Caldwell, Texas	Shirley Lange
Helga Lange	11995 FM 2095 Gause, TX	Helga Lange
Heinz Lange	(11995) FM 2095 Gause, TX	Heinz Lange
Jayson Murello	Gause	Jayson Murello

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Stephen Titsworth	780 CR 355 Loop Gause, Tx	Stephen Titsworth
Bob Parr	200 N. Woodcrest Bartlett	Bob Parr
Robert Miller	310 N Olive St Gause TX	Robert Miller
Jonathan Turner	408 Boyd Ave Rockdale TX	Jonathan Turner
David Gonser	129 Oaklawn Rockdale Tx.	David Gonser
Kirk Greenhaus	204 E Ave D Milano	
Edward Wallbrook	431 W Ave A Milano	
Dan Burke	1221 Lost Creek Hills	Dan Burke
Denise Evans	4551 CR 353 Gause Tx	Denise Evans
Buckwood Bakken	P.O. Box 42, Milano TX	
John Krause	1603 E. Cameron Rockdale, Tx	John E Krause
Naomi White	506 E Ave F Milano Tx	Naomi White
Donny White	" " " "	Donny White
Shannon Bell	311 FM 979 Cameron Tx 76520	Shannon Bell
Thomas Harris	11548 FM 908 Rockdale, TX 76567	Thomas Harris
Joell Barnett	2189 CR 342, Milano, TX 76556	
Brittany Barnett	2189 CR 342 Milano TX 76556	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
~~DONNA BUDDY~~	~~3300 CR 255 CAMERON~~ 76520	~~Donna Buddy~~
Gina Tate	7781 S Hwy 36 Cameron	Gina Tate
EUGENE KLEIBER	2219 CORD 237 CAMERON	Eugene Kleiber
MARJORIE KLEIBER	2219 CO RD 237 "	Marjorie Kleiber
MARY MCGEHEE	2219 CO RD 237 "	Mary McGehee

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
[redacted]	[redacted] 76520	[redacted]
Richard Gann	3829 FM 2095	Richard Gann
Joyce Gann	3783 FM 2095	Joyce Gann
Cheyanne Keith	196 Cr. 238-A Cameron TX	Cheyanne Keith
Douglas Baker	1188 PR 6030 Cameron, TX	Douglas Baker
Alton Baker	3464 FM 2095 Cameron, TX	Alton Baker

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
LELAND BAKER	3464 FM 2095	Leland Baker
HAROLD BAKER	3464 FM 2095	Harold Baker
Carolyn Baker	3464 FM 2095	Carolyn Baker
THOMAS GANN	5007 FM 2095	Thom Gann
Billie Gann	5007 FM 2095	Billie Gann
Lola Gann	479 - RR 231	Lola Gann
DENNIS GANN	196 - CR 238-A	Dennis Gann
Wilfred Baker	3887 - FM 2095	WILFRED BAKER
Alice Baker	3837 FM 2095	Alice Baker
Sharon Eickenhorst	1443 CR 242	Sharon Eickenhorst
Erna Mae Gann	196 C.R. 238-A	Erna Mae Gann
Caleb McGee	323 C.R 238	Caleb McGee
Kenneth Gann	196 C.R. 238-A	Kenneth Gann
Ken Stone	4053 FM 2095	Ken Stone
Rubie Lewis	1000 Martin L K	
Odessa Lewis	1601 North Austin	
Kristy Simmons	105 Elm St	K Simmons
Phyllis Stone	4053 FM 2095	Phyllis Stone

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
DWIGHT BIDDY	8300 CR. 259 CAMERON 76520	Dwight D Biddy
Basilio M. Montez Sr	206 S. Scott ST. CAMERON 76520	Basilio M. Montez Sr
Tina R WEST	1465 CR 104 Milam Buckholts TX	Tina R West
Tammy Rodriguez	902 So. 2nd Temple TX 76504	T Rodriguez
Paula Martinez	11604 Chimney Hill Dr Temple TX 76504	Paula Martinez
JoAnn LARA	709 S main st Temple TX 76504	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Faustin Lara	709 S Main St Temple TX	Faustin Lara
Billy Moore	204 E Grant St Franklin	Billy Moore
Virgil Bunch	527 CR 344 Milano	Virgil Bunch
Donna Bunch	527 CR 344 Milano	Donna Bunch
Jesse Cerecerez	2006 West Main Cameron TX milam Co	
Roxie Salazar	2006 W. Main Cameron	Roxie Salazar
Courtney Boothby	2787 S. Martin Luther King Jr Dr. Apt 1103 Temple	Courtney Boothby
Jorge Fuentes	2787 S. Martin Luther King Dr. Apt 1103 Temple TX	Jorge Fuentes
Dewane Garrett II	754 Goetz Rd. Cameron, Tx	
Maggie Gonzales	503 N Jefferson Milam	Maggie Gonzales
Sonia Vega Perez	1104 N. Davis Ave.	Sonia Vega Perez
Jonathan Carrillo	710 N Central Cameron, TX 76520	
Lorena Carrillo	700 N Central Cameron, TX 76520	Lorena Carrillo
Edgar Luna	206 Scott Cameron TX	
Teresa Montez	2401 Stone Hollow Dr Apt. 205 Brenham, TX 77833	Teresa Montez
Monica Montez	801 B. W. 2nd St Cameron TX 76520	Monica Montez
Lonnie Hemphill	801 B. W. 2nd St Cameron TX 76520	Lonnie Hemphill
Basilio Montez	206 Scott St Cameron TX 76520	Basilio Montez
Abigail Lopez	305 S. Jefferson Cameron TX 76520	Abigail Lopez
Paula Englund	400 North Columbus Ave. Cameron TX 76520	Paula Englund
Alexis Duarte	1406 N. Central Cameron, TX 76520	Alexis Duarte
Bessie Fifer	817 Webster Kerrville TX 78028	Bessie Fifer

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Briana Fuentes	1703 N. Cleveland ave. 9p1.5 Milam County	Briana Fuentes
Charles J Salazar	2003 W Main	Charles Salazar
Risa Montez	206 Scott Milam Co	Risa Montez
Rachel Salazar	2003 W. Main St	Rachel Salazar
Michael E Orone	905 N. VOGELSANG AVE.	Michael E Orone
Joey Gage	229 County Rd 331 / Milam	Joey Gage
Dana Gage	229 County Rd 331 Milam	Dana Gage

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Sharon Nelson	2012 Positano Loop, Bryan TX 77808/Brazos	Sharon Nelson
Jeff Wright	1509 Pine Ridge Dr. CS, TX 77845	Jeff Wright
Anahi Pulido	3150 Finfeather Rd CS, TX 77801	Anahi Pulido
Russell Foy	2401 Welsh Ave. CS, TX, 77845	
Jesse Schreiner	1066 Windmeadows C,S 77845	
John Woodard	3916 Deverne Dr C.S. TX 77845	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
David Alford	520 W OAK Calvert TX	
Grant Lipscomb	7706 Brookway Dr. College Station	
Jim Kelly	7833 Longview Dr. Bryan	
Anne Luster	501 Anderson	
Todd Tomlinson	4556 S Hwy Robertson	
Derek Scott	4556 S Hwy 6 Robertson	
Ronny Haring	301 Bentta Dr. Montgomery Co.	

(7)

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Frank Shafer	P.O. Box 42, Franklin, Tx. 77856	Frank C. Shafer
Leann Rabe	P.O Box 332, Franklin, Tx 77856	LeannRabe
Robert Bishop	2333 Vaughn Ln Hearne Tx	Robert Bishop
Mike Latsha	CR 259 Cameron, TX	Mike Latsha
COLT KEY	703 HUNTER DR., ROCKDALE, TX.	Colt Key
Phip Shafer	P.O. Box 980 Calvert, Tx. 77837	Phip Shafer

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Bob Maddox	P.O. Box 843 Hearne, Tx 77859	Bob Maddox
Sherwood Lucko	830 CR 248 Cameron 76520	Sherwood Lucko
Alejandro Fernandez	506 E. Browning St., Calvert, TX. 77837	Alejandro Fernandez
Mark Yates	8650 Fm 979 Cameron Tx 76520	
[illegible]	[illegible] Franklin Tx 77856	
Sarah McQuillan	3180 Copperfield Dr Bryan 77802	SM
Susan Prihoda	954 FM 2038 Bryan, 77808	Susan Prihoda
Jennifer Walker	1720 CR 347 Gause, TX 77857	Jennifer Walker
Judy Allen	8948 Jackrabbit Ln Bryan 77808	Judy Allen
Catherine Kuehn	3464 CR 259, Cameron 76520	Catherine Kuehn
Opal M. Shafer	1062 Shafer Lane, Franklin, Tx. 77856	opal m. Shafer

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Henry H. Hill	P.O. Box 82 Mitchell Tx Coleman	Henry H. Hill
Brenda Carrasco	169 Elm Creek Rd. Rockdale, TX. Milam	Brenda Carrasco
Larry Myers	Milano TX. Milam	Larry Myers Jr.
Alana Coleman	Milano, TX Milam	Alana B. Coleman
Rescellia Mclearan	Liberty TX (Milam)	Rescellia D. Mclearan
Jimmy Mills	Cedar Creek (Bastrop)	Jimmy Mills
Gary Follis	Austin (Travis)	Gary Follis

(1)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Wayne Warren	Liberty/Milan	Wayne A Warren

(1)

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Vivian L. Dixon	1201 22 Hill Rd	Vivian L. Dixon
Charles Hoppe	9145 CR 353	Charles Hoppe
Linda L Hoppe	" "	Linda L Hoppe
Dianne Whitehead	1335 CR 330	Milano
Herbert L Fleming	10522 FM 2095	HERBERT L FLEMING
Celvin C. Whitehead	1335 CR330	Celvin C. Whitehead

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Melvin M. Otten	901 Calvert St. Hearne Texas	Melvin M. Otten
Melva L. Otten	Robertson Co.	Melva L. Otten
Connie Stratta	452 mt Calvary Rd Hearne, TX	Connie Stratta
Carolyn Hafley	2325-CR Milano/Milam	Carolyn Hafley
Don Hafley	" "	
Jim Pennell	502 W. Bagget St Hearne TX	
Mark Morgan	188 Cr 350 Rouse TX Milam	
Eric L Lee	156 CR 350 Gause TX	
Jeff Carroll	199 County Rd 350	
Regina Young	111 Reenie Dr Cameron	Regina F Young
MARVIN YOUNG, JR.	111 Reenie Dr Cameron	Marvin Young, Jr.
Faith Kolina	401 Joelee Bell	
Joyce Koff	805 CR 108A Buckholts TX (Milam) 76518	
RONNY M. WEST	525 CR 104D BUCKHOLTS, TX.	Ronny M West
Regina E. Pencik	12860 Woodford Rd Temple TX	Regina E Pencik
CARROLL MICHALKA	14367 SANDY RIDGE ROGERS, TX. 76569	
Joe Hollan	377 CR 470 Rockdale	
WOODY MATTHEWS	8992 fm 437 Rogers TX 76569	
Sierra Martinez	8992 fm 437 Rogers TX 76569	
Cory Smith	16005 FM 2184 Rogers	
Colby Smith	631 CR 134 Burlington TX	
ROBERT KLECKA	P.O. BOX 104 ROGERS, TX.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
DALE WALZEL	P.O. BOX 671 ROGERS, TX.	
JEFF MARSHALL	P.O. BOX 657 ROGERS, TX.	
Stetson Gommert	324 Jordan CV, Bastrop TX	
Kenneth Ryan	113 REENIE DRIVE CAMERON TX.	
J.A. KLECKA	503 CR 107 BUCKHOLTS, TX. 76518	
Jimmy Chance	Rogers TX	
Judy Kopriva	Cameron, Texas	
Jimmie Kopriva	CAMERON, TX	
DARRELL GLASER	P.O. BOX 568 ROGERS, TX.	
David Lesiker	2123 N. FM 2184 ROGERS, TX. 76569	
BELINDA FAGLIE	942 CR 401 HOLLAND, TX. 76534	
ED BRENEK, JR.	2351 BOB WHITE TEMPLE, TX. 76501	
Albert Lesiker	Box 473 Roger Tx.	
David Posival	3351 CR 208, Cameron, Texas 76520	
TANIA VICE	1947 Stone Rd. Temple TX 76501	
BRIAN VICE	1947 Stone Rd. Temple TX. 76501	
JOHN HENDERSHOT	11160 WEBEL CEMETERY ROAD ROGERS, TX. 76569	
C.E. DAVLIN	214 S. ELM STREET ROGERS TX. 76569	
DOROTHY DAVLIN	101 E. BELL ROGERS, TX. 76569	
George Tomek	1034 CR 144 Cameron, TX	
JoAnn Peeler	P.O. BOX 188 BUCKHOLTS, TX. 76518	
MARVIN MAREK	12040 STATE HWY 53 TEMPLE, TX. 76501	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Wayne Psencik	12860 Woodford Rd Temple, Bell Co.	Wayne Psencik
Kathryn A. Cranston	16661 FM 940, Rogers TX 76569	Kathryn A Cranston
Rachel Psencik	12860 Woodford Rd Temple 76501	Rachel Psencik
Glenn Psencik	16789 FM 940 Rogers 76569	Glenn Psencik
Ruth Psencik	16789 FM 940 Rogers 76569	Ruth Psencik
Justin Psencik	16661 FM 940 Rogers, Tx, Bell 76569	Justin Psencik
Sidney Youngblood	4729 CR 227 Cameron, Tx. Milam	Sidney Youngblood 76559
	Coyote Cove Lit TJ Le River	
Carolyn Young	2220 Allen LANE TEMPLE, TX. 76502	CARLTON YOUNG
Wade Gay	14233 Possum Creek Rd Temple TX 76502	
CK WALZEL Jack Walz	BOX 266 ROGERS, TX. 76569	Jack Walz
JILL CHARANZA	206 E. 10th CAMERON, TX.	Jill Cha
NOAH SIMMONS	2001 N. FANNIN #A CAMERON, TX. 76520	Noah Simmons
GARY B. LAWSON	1584 CR 405 DAVILLA, TX 76523	Gary B Lawson
BEN BAECKER	6141 S. FM 2184 ROGERS, TX. 76569	Ben Baecker
JOE F. SHIRLEY	1209 N. 10th St. WACO, TX. 76707	Joe F. Shirley
MARGARET FERNANDEZ	1209 N. 10th St. WACO, TX. 76707	Margaret F. Fernandez
JASON A. FUCHS	1185 CR 101 ROGERS, TX. 76569	Jason A.

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Frances Gilliland	4856 FM 3242 Cameron, TX 76520	
Sandra Shafer	5400 FM 3242 Cameron TX 7652	
Kent Shafer	5400 FM 3242 Cameron TX 76520	
Darla Montez	5400 FM 3242 Cameron TX 76520	
Joe W. Montez Jr.	5400 FM 3242 Cameron TX 76520	
Kevin Cain	5400 FM 3242 Cameron, TX 76520	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Alvin Faith III	2804 W 4th Cameron	
Mari Alvarez	1805 Westmarket	
Danny K Pratt	1702 N. Burns	
Chancey Rubal	3024 E FM 485 Cameron Tx Milam county	
[illegible]	FM 2095	
Raymond Carrillo	1011 St 4th	
Barbara H Gilland	4385 FM 3242 Cameron, Tx.	
Rick Graham	821 CR 344 Coop Milano, Tx	
Jackie Oprea	8015 Null Ct. Spring Tx	
Bob Dymke	600 E. 9th St Cameron Tx 76520	
Dan Brashear	305 E. 19th Cameron	
Pat Brashear	402 E 12th Cameron, Tx	
Ruth J. Lagrone	993 S Hwy 36 Milano, TX 76556	
Judy York	2873 N FM 487 Rockdale, Tx 76567	
W. D. Lagrone	993 S. Hwy 36 Milano Tx 76556	
Lois Fisher	208 Summit Rockdale Tx 76567	
William W. Fellis	3370 CR 237-76520	
Dorrie Dugger	P.O Box 2 Milano TX 76556	
Pattie Reese Copes	PO Box 362 Milano Tx 76556	
Henry & Jimmye Hill	PO Box 10356 College Station, Tx 77842	
Roddy & Donna Robinson	1585 N. FM 908 Rockdale, Texas 76567	
Bert Mills	2193 fm 3242 Milano Tx 76556	

Bert Mills

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Casey M. Locke	4010 FM 3242 Cameron Texas	Casey L.
Harold Lockford	8709 FM 3242	Milano, TX
Anya Locke	750 FM 3242	" "
Carolyn Hays	3023 CR 326	Rockdale, TX
Don Oppes		Spring, TX 77379
Lea Anne Hatcher		LeaAnne Hatcher
Robert Hatcher		Robert Hatcher
Emily Silva		Emily Silva
Michael Taylor	415 maple Gause Tx	Michael Tla
Ray Rap	211 main st Gause TX 77857	Ray Rap
Luisa Hunter	211 North Olive St. Gause Tx.	Luisa Hunt
Jack Carson	211 North Olive St. Gause Tx.	Jack Carson
Kenneth Sheppard	14020 Fm 2095 Gause tx	
Sondra Sheppard	14020 FM 2095 Gause, Tx. 77857	
Diane Gandy	706 Old River Rd Gause Tx 77857	
Geneva Gandy	14053 FM 2095 Gause TX 77857	
Jolene Hill	12043 FM 2095 GAUSE TX 77857	
Margie Hill	12043 FM 2095 Gause TX 77857	
T. M. Stamm II	800 Cox Hollow Rd. Gause, Texas 77857	
Marjorie Strauss	800 Cox Hollow Rd Gause, Texas 77857	
Theresa Morgan	188CR 350 Gause, Tx 77857	Theresa M...
Justin Young	21072 E Hwy 79 Sus...	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Ryben Gomez	1004 Willow St Hearne Tx 77859	Ryben Gomez
Henry T Du Bosarch	9236 CR 353 Gause 77857	
Charlie Young	210 72 east Hwy Gause	Charlie Young
Ernest Gray Young	P.O. Box 174 Gause Tx	
Becky A Springer	3304 C.R 344 Loop, Milano, TX 76556	
Anna Collins	4571 S. Hwy 36 Milano Tx 76556	
Katherine Bedrich	1949 CR 145 Cameron, Tx	Katherine Bedrich
Rick Crowell	2554 CR 241 Cameron Tx	R. Crowell
Edward J Dworaczyk	178 CR 372 MILANO TX	EDWARD L DWORACZYK
SANDRA L DWORACZYK	178 CR 372 MILANO, TX	Sandra L Dworaczyk
PK NEELEY	877 CR 225 Cameron	P. Neeley
Dorothy Mayer	1914 Co Rd 241 " "	Dorothy Mayer
Steve Mayer	" " " "	Steve Mayer
Kim Simmons	" " " "	Kim Simmons
Linda Jo Conn	5365 CR 326 Lexington TX	Linda Jo Conn
Rosemary RAINS-Hoyt	P.O Box 237 Gause, Tx	Rosemary Rains-Hoyt
BARBARA PASCHALL	P.O Box 72 GAUSE, TX 77857	
Pietro Caporusso	4404 WINDRIVER Austin TX 78759	Travis
WILLIE C LIVINGSTON	1401 NOBLE WAY FM, Tx 75022	Willie C Livingston
Wanda J. Livingston	1401 Noble Way DM, Tx 75022	Wanda J Livingston
Shirley Cernosek	P.O. Box 238 Gause TEX 77857	
Patty Jones	P.O. BOX 238 GAUSE TX 77857	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Donna Cernoch	CRd 359	
Darvin Gray	728 FM 1445 Milam	Darvin Gray
Cody TABOR	188 Cordova Dr Rockdale	Cody Tabor
Joel Walzel	1577 CR 226 Cameron, TX 7650	
GARY Young	144 C.O. RD. 353 Gause, TX 77857	Gary Young
James Tayoung	11830 Cedar Loop Hearne Tex	James Tayoung
Fay Young	11830 Cedar Loop Hearne, Tx	Fay young
Pearly Ellis	11805 Cedar Loop Hearne, Tx 77859	
Walter Ellis	33 Cedar Loop Hearne, Tx	
Pearly Smith	35 Cedar Loop Hearne TX	Pearly Smith
Carole Camp Smart	6956 N.FM 486 Thorndale	Carole Camp Smart
Annabelle Hodge-Klein	1687 FM 306, Thorndale TX 76577	
Henry J. Bradford	2415 N. F.M. 908 Rockdale Tx 76567	
James Bryan	1726 CR 458 Thorndale TX 76577	James Bryan
Joan Ratliff	915 E. Cameron Ave, Rockdale, Tx 76567	Joan Ratliff
Beth Brooks	2300 Bel Air Dr Taylor Tx 76574	Beth Brooks
Jack Brooks	2300 Bel Air Dr Taylor TX 76574	
Mary Graham	10958 County Rd 440, Thorndale, Tx 76577	
Shelli Sheppard	12421 Fm 2095 Gause, TX 77857	
Waylon Sheppard	12421 FM 2095 Gause, TX 77857	
Roy K. Willeford	Gause, TX 77857	
Linda Frye	134 CR 353 Gause TX. 77857	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
RAY CASS	371 Co Rd - 350	Ray Cass
Rhonda Claud	~~2095~~ CR 355	Rhonda Claud
~~Randy~~ Melanie Rasco	309 E Cherry	Melanie Rasco
Mary Evans	301 cr 352	Mary Evans
Randy Shipley	214 N. Dogwood	Randy Shipley
Mike Griffin	431 N. OLIVE ST.	Mike Griffin

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Bobbie Hairston	box 151 Milam, Tx.	Bobbie Hairston
Wanda Coat	Box 31	Wanda Coat
A.A. Coats	Box 31 Gause TX	A Ray Coats
Bo Ponson	Box 92 GAUSE TX	
Asia Howard	Box #2, Gause Tx.	
Holly Jentsch	9144 CR 353, Gause TX	Holly Jentsch
MARY L. Cox	410 ct R. 350 Gause Tx	
Craig Jentsch	9144 CR 353 Gause Tx	
Jane Carroll	911 Willow Gause TX.	
Lloyd W. Carroll	912 willow Gause TX	
Mellonie Carroll	Willow Gause TX.	
Becca Love	1831 CR 115	Caldwell Tx
Patty Kornegay	218 CR 352 Gause, TX	Patty Kornegay
Rhonda Russell	1780 CR 347 LP Gause, TX	Rhonda Russell
Scott Koenig	2471 CR 358 Gause Tx	
Mark Horton	194 Co Rd 352 Gause TX 77857	
Glenn Downy	2265 CR 343 Gause Tx	Glenn Downy
James Trail	9495 CR 335 Caldwell Tx	James Pawzak
Jolene Hill	12043 FM 2095 Gause TX	Jolene Hill
Alma Lagrone	12043 FM 2095 Gause TX	Alma Lagrone
Alyssa Kornegay	218 CR 352 Gause, TX	Alyssa Kornegay
James Collins	251 CR 350 Gause TX	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
ODis A. HOYT JR.	POBx 37, GAUSE, Tx MILAM C.	Odis A. Hoyt JR.
Dean Dilbeck	Milam	Dean Dilbeck
Gary Heldenbrand	563 S. San Jose St Robertson Hearne TX	Heldenbrand
Hubert Morgan	Milam, Tx	Hubert Morgan
N. Thomas Walker	11486 Redhill RD Hearne	N. Thomas Walker
MacKenzie	11486 Redhill Rd	MacKenzie
Nathan Jones	PO Box 2921	
RAY SMITH	P.O. Box 56 GAUSE, TX	Ray Smith
LOU ANN SMITH	P.O. Box 56 GAUSE, TX	Lou Ann Smith
Brandon Swanson	P.O. Box 84 Gause, TX	Brandon Swanson
Ashley Evans	P.O. Box 84 Gause, TX	Ashley Evans
Benito Perez	693 cr 3481p Gause TX	
JASON BAILEY	5424 CR 358 Caldwell TX	
Thomas Alexander	P.O. Box 361 Gause Tx. 77857 Milam	Thomas J. Alexander
Mike Bucklay	10710 Ella Lee Houston Tx HARRIS	Mike Bucklay
Rhea Rasco	1105 Wheelock St Hearne, Tx	
Carrie Alford	5202 Oak Gause	Carrie Alford
Liz Leggett	5924 CR 322 Rockdale Tx	Liz Leggett
Coleen Tedder	5589 E US Hwy 79 Milano TX 76556	Coleen Tedder
Deanna Pierce	836 CR 336 Milano TX 76556	Deanna Pierce
Robert W. Conn	2404 N POLK AVE Cameron, TX	
Beverly Hux	PO Box 341 Milano, Tx	Beverly Hux

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Kerry Schlemmer	1172 Cypress Trail Lp Rockdale Tx	
Chels Coldiron	221 E Redbud Gause TX	
JT Rains	1105 Wheelock St Hearne Tx	
Tammy Neal	Po Box 62 Gause, Tx	
Lucillo Bro[illegible]	2005 CR 354 LP, Gause	
Billy Bennett	PO Box 82 77857	Billy Bennett
Lacey Ann Bennett	Po Box 157 77857	
Harris Huguenard	2410 S. 2nd St, Waco, TX	
Jeremy Gaston	PO Box 152 Gause, Tx 77857	
Jordan Pierce	Po Box 102 Gause, TX 77857	Jordan Pierce
Brian Eickenhorst	1443 CR 242 Cameron Tx 76520	Brian Eickenhorst
Carrian Kirk	Po 258 Gause 77857	Carrian Kirk
Jannie Balliett	284 CR 352 Gause, TX 77857	JBalliett
Dallie Sanders	402 professor Gause, TX. 77857	Dallie Sanders
Michelle Reese	112 circle Dr Gause, Tx 77857	Michelle Reese
Debbie Smith	187 CR 357A Gause Tx 77857	Debbie Smith
Darrell Spurlock	5858 Hwy 39 N Mexia Tx-76667	Darrell Spurlock
Keith Lummus	712 E Nowlin Mexia Tx	
James Stubbs	1885 Harris Dr. College Station	
Randy Crump,	1433 CR 316, Rockdale 76567	Randy Crump
Lonnie Crump,	13882 FM 2085, Rockdale	
Wendy Pickett	222 Glendale Dr Rockdale	Wendy Pickett
John Edmond	187CR357A	Gause Tx

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Tympani Smith	187 CR 357A	Tympani Smith
Jennifer Wilkins	1791 SE HY 79	
Joe Hairston	1949 CR 329	Milano, TX Joe Hairston
Deborah Reid	380 C.R. 357	Deborah R. Reid
TJ. Hollingsworth	520 S. 6th	
Lauren Ward	Box 31	Lauren Ward
Art Sullens	CR 353	
Patsy Carroll	199 CR 350	Patsy Carroll
Rita Villalpando	310 CR	Rita Villalpando
Hollingsworth Mary	218 CR 352	
Laura Rose	626 Caldwell CR. 358	
Mary Means	570 CR 359	
Deborah Lagrone	P.O. Box 73 Cowsx	
Glenn Parker	P.O. Box 284	
Chris Elliott	592 CR 358	
Kristina Cissler	592 CR 358	
Matt Jentsch	9208 CR 353	
KENNETH MILLER	708 W. 4TH / LAMPASAS	
Erica Starnes		Erica Starnes

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Darlene Anglen	PO Box 6 Milano	Darlene Anglen
Elaine Baumann	10530 FM 2095 Gause Milam	Elaine Baumann
Edith Smith	PO Box 264 Gause Milam	Edith Smith
C.W. Smith JR.	P.O. Box 264 Gause Milam	
Antonio Gonzales	P.O. Box 270 Gause TX,	
Robert W. Smith	10615 CR 333 Caldwell, Tx.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Peter Lawson	5220 CR264 Gause Tx 77857	
Diana Smith	10615 CR 333 Caldwell 77836	
Ricky Kleiber	1893 CR359 Gause, Tx, Milam Co,	
Jana Rose	1434 CR 359 Gause, Tx	Jana Rose
Theresa Clay	714 E. 8th St, Cameron Tx, Milam Co.	Theresa Clay
WAYNE Lee	306 CR 352 Gause Tx	
Louise Carpenter	8650 E. Hwy 79 Milano, Tx	Louise Carpenter
Arthur Carpenter	" " " "	Arthur Carpenter
Jimmy Cass	702 Woodson Dr. Caldwell, Tx 77836	Jimmy Cass

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NAME	ADDRESS/COUNTY	SIGNATURES
Travis Neely	3665 CR 358 Gause	
Dan Fischer	1808 22 Hlk Rd Gause	
Roy Hann	9995 CR 353 Gause	Roy Hann
Martha Hann	9995 CR 353 Gause	Martha Hann
Gloria Ely	989 CR 353 Gause	
Margaret K. Raines	14100 FM 2095 Gause	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
DONNA LEWIS	8954 County Rd #353	Donna Lewis
MICHAEL R NIKLASCH	2042 22 HILLS RD	Michael R Niklasch
Mary Neely	P.O. Box 347 CR358	Mary Neely
HAROLD NEWBERRY	334 CR 238-C	
GERALD SAWDERS	683 E HOLLINGER	Gerald Sawders
Tammy Storey	311 E. AVE A Milam Milano	Tammy Storey
Terry Drammond	1464 CR316 Rockdale	
DENNIS GREEN	1304 CR 330 Milano, Tx	
GINGER GREEN	1304 CR 330 Milano, TX	Ginger Green
MADELINE BEITEL	1304 CR 330 MILANO, TX	Madeline Beitel
Vickie Coffey	1423CR330 Milano TX	Vickie Coffey

(11)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Blandia Sifuentes	9 Brandy Drive Hearne, Tx	Blandia Sifuentes
Melissa Stewart	701 Norwood Ln Hearne	Melissa Stewart
OLIVIA SIFUENTES	804 WEST DAVIS Apt# 1 (Hearne TX)	O. Sifuentes
Terra Bell	1826 Railroad St Hearne tx 77859	Terra Bell
ANSON Dubique	1501 SYCAMORE St Robertson	Anson Dubique
Marcus Gandy	510 west Evans St. Robertson	
PatRick Beelan	12181 Fm391 Hearne TX Robertson	
Adam Ruiz	5179 Warren Rd Hearne Tx	Adam Ruiz

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Miguel Trejo	610 Fulton st Tx 77859	Miguel Trejo
Francisca Olguin	1005 W 3rd St	
Tatiana Dykes	401 S. Colorado St	T. Dykes
Alenterius Henderson	830 South Riley St. Tx 77859	Alenterius Henderson
Anthony Mullion	908 West 3 Robertson	
Raymond Lehocki	12396 Fm 391 Robertson	
Molly Vance	12361 FM 391 Robertson	Molly Vance

(1)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Irene Ramos	704 E. Davis st	Irene Ramos
Thomas C Gomez	705 E. Davis St	Thomas C Gomez
Danny Guzman	705 E. Davis Hearne TX	Danny Guzman
Chris Castillejo	601 West Davis st Hearne TX	Chris Castillejo

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Jerry Henry	10520 Spur 231 Bryan, Robertson, TX.	J.R. Henry
Lanette Henry	10520 Spur 231 Robertson	Lanette Henry
Margaret Sheen	12340 FM 391 - Robertson	Margaret Sheen
Johnnie Fiesen	602 Kamey - Robertson	
Richard Sheen	12340 FM 391 Robertson	
Joel Cisneros	1410 Pure Silver Bexar	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Chip Baker	502 Anderson St / Robertson	
MJ SWANSON	502 Anderson Hearne	
Kristina Ossler	2 Box 377 Hearne 77859	
Chris Elliott	"	
Stephanie Vega	1008 Pine Bryan	
Joe Alvarado	606 Bradford Hearne	
Arthur Alvarado	15370 Wadsworth Gin Rd	
Mary Gonzalez	703 E Davis Hearne	
Santos Gonzalez	734 Fm 485 Hearne	
Chris Castillega	601 W. Davis Hearne	
Fred Alvarado Sr.	605 E Davis, Hearne	
Fred Alvarado Jr.	605 E Davis Hearne	
Robert Bustos	804 Ecos	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Christi Johnson	2723 Celina Circle Brazos	Christi Johnson
Heather Baker	502 Anderson St. Hearne TX 77859	Heather Baker
Adan Ruiz Jr	1504 E. 28th Bryan TX 77802	AR
Teja Ruiz	1504 E 28th Bryan 77802	TR
Mel R	5179 Warren Rd Hearne TX 7785	MR
Amy Ruiz	5179 Warren Rd Hearne/Robertson	Amy Ruiz

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Guillermo Vasquez	1308 S. Magnolia Robertson	Guillermo Vasquez
Melissa Williams	1308 S. Magnolia Robertson	Melissa Williams
Brianna Leija	1808 Pine St. Robertson	Brianna Leija
Erica Mata	13 Lou John Robertson	Erica Z. Mata
Sylvia Ruiz	601 W. Davis Hearne	Sylvia Ruiz
Johnny Ruiz	13 Lou John Dr	Johnny Ruiz
Sally Villalpando	301 Kvenek Tap Rd. CS	
Stephanie Leija	1808 Pine St. Hearne	Stephanie Leija
Ashley Vaca	808 Second St. Robertson	Ashley Vaca
Alexis Vaca	808 E. Second St. Robertson	Alexis Vaca

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Greg Hughes	Robertson	
Facundo Contreras	Milam	
Dennis Randle	Robertson	
James Johnson	Robertson	
Gary Hughes	Robertson	
	Limestone	
Charles Wilgenowski	Falls	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Dylon Lindley	Robertson	
Leslie Nolan	Robertson	
Bolyson Theiss	Grimes	
	Van Calver	
Mathew Wilganowski	Brazos	
John Zun	Robertson	
T.J Gaspard	Robertson	
Gary Salazar	Milam	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Andrew Thurman	4088 CR 334 Rockdale, Tx 76567 (Milam County)	
Mike Walker	718 Enfield Rockdale, TX 76567	
Brian Boone	904 Blackshear Ave Hearne, Tx 77859	
Ron VanRosenberg	2002 Nobles Rd. Rockdale Tx	
Chad Greenlee	104 North Hills Circle Franklin, TX	
Gary Kornegay	2283 CR 343 Gause, Tx	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Alisa Kornegay	2283 CR 343 Gause 77857	Alisa Kornegay
Sara Kornegay	2283 CR 343 Gause, TX 77857	Sara Korn
Della J. Coleman	Oak Park 4 - Milam Co. - Rockdale Tex 76567	Della Coleman
T. Tiffany L. Prestridge	191 Oak Park One Rockdale, Tx Milam Co 76567	
Walter Ham	195 Oak Park One Rockdale Texas	
Jonathon Lynch	206 Parkway Rockdale TX	
Bill Cardwell	1658 CR 446 Rockdale	
Veronica Cardwell	1658 CR 446 Rockdale TX	
Cindy Lueckge	148 Oak Park One Milam Co. Rockdale	
D & Coleman	PO Box 605 Milam Co - Rockdale TX 76567	D. G. Coleman
Shirley Lueckge	148 Oak Park One Rockdale, TX	Shirley Luetze
Linda Luckey	138 E. Belton Rockdale, Tx Milam Co.	Linda Luckey
Carol Luckey	437 Ackerman Rockdale Tx Milam Co.	Carol Luckey
Pat Zapata	104 Bonham St Rockdale TX milam co.	Pat Zpata
Raymon Zamora	723 Southboard St Rockdale Tx milam	Raymon Zamora
Paul Luckey	229 Bowser Rockdale TX Milam	Paul Lly
Wallace Jones	2280 CR 313 Rockdale, TX Rockdale, Tx, Milam	Wallace Jones
Stephen Jones	P.O. Box 1123 Rockdale TX Milam Co	Stephen Jones
Gracile Lillard	598 Oak Park Five - Rockdale, TX Milam Co	Gracile Lillard
Amy Hendrix	3223 FM 1600 Cameron, TX Milam Co.	Amy Hendrix
Chaz Fisher	245 Oak Park II Rockdale Tx	Chaz Fisher
Rita Phillips	477 CR 315 Rockdale TX	Rita Phillips

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Glynn Phillips	677 CR 315 Rockdale Tx	Glynn Phillips
Tyler Phillips	677 CR 315 Rockdale Tx	Tyler Phillips
Daniel D. Phillips	987 Hwy 79 Rockdale TX	Daniel D. Phillips
Denton Phillips	677 CR 315 Rockdale Tx	Denton Phillips
Joyce Key-Skinner	1982 O'Kelley Rd Rockdale	Joyce Skinner
Cindy Cates	1614 W. Cameron, Rockdale Tx 76567	Cindy Cates
Dusty Leopold	2204 Post Oak, Rockdale Tx 76567	Dusty Leopold

(M)

Stop the Government Takeover of our Land and Homes!

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Chris White	244 Goetz Rd. Cameron Milam	
Lonnie Cuny	13882 FM 908 Rockdale Milam	Lonnie Cuny
Timothy Oaks	5632 FM 3242 Cameron Milam	Timothy Oaks
Linda Meyer	902 W. 25th B Cameron, Texas Milam	Linda Meyer
Wayne Doskocil	Holland, TX.	Wayne Doskocil
Glen Stotts	12631 E Trans	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Guy L Dunbar	Hollard, Tx 76634 21845 FM 2268	Guy L Dunbar
Mary Dell	2156 CR 236	
Walter	2003 Cr 236	
Glena Clinard	3757 W Hwy 79 Rockdale	

(4)

JERALD & JOAN WISE

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SIGNATURES

NAME	ADDRESS/COUNTY		SIGNATURES
JERALD WISE	116 REENIE DRIVE CAMERON, TX 76520	MILAM	Jerald Wise
JOAN L. WISE	116 REENIE DR CAMERON, TX. 76520	MILAM	Joan L Wise
Steven M. Wise	5629 FM 3242 Cameron, TX 76520	Milam	
Chanyn Wise	5629 FM 3242 Cameron TX 76520	Milam	
Ryan D. Wise	5629 FM 3242 Cameron, TX 76520	Milam	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Altie Y Burnett	1204 F.M. 2095 - MILAM	Altie Y Burnett
Henry Burnett	1204 F.M. 2095 MILAM	Henry L Burnett
Bertha L Hrachovy	3092 CR 145. MILAM	Bertha Hrachovy
Charlie West	123 Wallace Blvd Cameron, MILAM	Charlie West
Anton Kopriva Jr.	203 N COLFAX - CAMERON MILAM	Anton Kopriva Jr.
Betty Kopriva	203 N Colfax Cameron MILAM	Betty Kopriva
Bill McCutcheon	600 W 24th Cameron MILAM	Bill McCutcheon
Shirley McCutcheon	600 W 24th Cameron MILAM	Shirley McCutcheon
Wm T Hrachovy	3092 CR 145 Buckholts	Wm T Hrachovy
Carroll Modesette	10267 N. FM 486 Rockdale MILAM	Carroll Modesette
Mellie Modesette	10267 N FM 486 Rockdale TX MILAM	Mellie Modesette
Erich L. Allen	3723 B FOLK ST. CAMERON, TX 76520 MILAM	
Leonard Pesek	P.O. Box 1011 Cameron TX. 76520 MILAM	
Wade Waddington	Co. Rd 328 Box 271 - Milano TX 76556 MILAM	
Glenn Downey	2265 CR 343 Gause TX MILAM	Glenn Downey
Truman L. Dill	302 E. 16th St. Cameron TX MILAM	Truman L. Dill
Tom Kirksey	PO Box 557 Rosebud FALLS CO.	Tom Kirksey
EUGENE SCHATTLE	1006 E 9TH CAMERON MILAM	Eugene Schattle
PAUL DILL	302 E 16TH ST CAMERON TX 76520 MILAM	
Clay Rogers Jr	1205 N. Carlton Cameron, TX 76520 MILAM	Clay Rogers Jr
Bill Goecke	1901 N. Harding Cameron TX 76520 MILAM	Bill Goecke
Edwin Couch	100 N. Crockett Cameron, TX 76520 MILAM	Edwin Couch

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SIGNATURES

NAME Print	ADDRESS/COUNTY	SIGNATURES
FRANKIE GOLE Ehler	793 CR 215A CAMERON, TX MILAM Co	Frankie Joe Ehler
Leland Burnett	785 E. ORTH BA BURLINGTON, TX	
Mrs Leland Burnett	" " MILAM Co	Burlington 8/6/19
~~Jerry L. Henson~~	~~3633 FM 2095 JERRY Henson~~	
DELMAR K. McCracken	305 S. PORTER CALDWELL, TX BURLESON, CO.	
Jerry L. Henson	3633 FM 2095 Cameron TX 76520	
Sharon Henson	" " MILAM Co	
Sharon Jones	878 FM 845 CAMERON TX 76520 MILAM Co.	
GEORGIE JACKSON	806 E 15th CAMERON, TX 76520 MILAM Co.	
BETTY FRENCH	206 E 7th CAMERON TX MILAM Co	
A.T. SWANEY	209 Handy Cove CAMERON, TX - MILAM, CO	
Linda Kamenicky	693 CR 231, Cameron 76520 MILAM Co	Linda Kamenicky
Valasta Kamenicky	693 CR 231, Cameron 76520 MILAM Co	Valasta Kamenicky
TREVA McCRACKEN	305 S. PORTER ST CALDWELL, TX 77836 BURLESON Co.	
WILLIAM C. MEACHAM	315 CECILIA LOOP COLLEGE STATION TX 77845 BRAZOS Co.	
Jackie B. Meacham	315 Cecilia Loop College Station Tx 77845 BRAZOS Co.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Deborah Wentzel	5409 Ave T, Santa Fe, Tx Galveston County	D Wentzel
Peggy A. Sutton	120 Reenie Dr. Cameron Tx 76520 MILAM CO	Peggy Sutton
Carolyn Cobb	267 CR 238B Cameron, Texas "	Carolyn Cobb
Derwood Cobb	267 CR 238B Cameron TX 76520 "	Derwood Cobb
DARLENE STEWART	612 E. 4TH CAMERON, TX 76520 "	Darlene Stewart
BOB STEWART	612 E 4TH CAMERON, TX 76520 "	Bob Stewart
DAVID Blacklock	1746 CR 258 CAMERON, TX 76520 "	David Blacklock
Patricia Blacklock	1746 CR 258 Cameron TX 76520 "	Patricia Blacklock
Bettie L. Roberts	4222 Co. Rd 277 Cameron TX 76520 MILAM Co	Bettie L. Roberts
DEE DEE ROBERTS	4222 CR 277 CAMERON TX MILAM CO	Dee Dee Roberts
Doris Van Noord	2326 FM 1600 Cameron, Tx	Doris Van Noord
Lucille Moss	504 E 9th Cameron TX "	Lucille Moss
NRK Roberts	4222 CR 277 Cameron TX "	NRK Roberts
Gene VAN Noord	2326 FM 1600 Cameron, Tx 76520	
Evelyn Young	1212 E. 12th St Cameron, Tx.	
E. M. Young Jr.	1212 E. 12th St. Cameron, Tx. MILAM Co	
BEASLEY, JAMES C.	1207 E 12th Cameron, TX MILAM CO	James C Beasley
Charlotte Beasley	1207 E 12th Cameron, TX "	Charlotte Beasley
Gene H. Linn	472 CR 401 Holland, TX MILAM Co	Gene H. Linn
Helen Fuchs	114 Reenie Drive, Cameron, Tx 76520 MILAM CO	Helen Fuchs
C. T. NELMS	22077 Pinebrook - New Caney, TEXAS MONTGOMERY CO	
PATSY NELMS	22077 Pinebrook - New Caney, TEXAS 7735 "	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Ann DeLane Yager	708 E. 16th - Cameron, MILAM CO	Ann DeLane Yager
Peggy Deathloff	11678 Lyon Rd Conroe, MONTGOMERY CO.	Peggy Deathloff
Shirley Dach	2784 E F M 485 - Cameron, MILAM	Shirley Dach
Bertie Shuemate	608 EAST 12th - CAMERON "	Bertie Shuemate
Cerrine Widner	207 E. 20th Cameron "	Cerrine Widner
Cecil WIDNER	207 E. 20th Cameron "	Cecil Widner
Bill Shellenberger	1003 W. Main Cameron 76520	
Lois Shellenberger	" " BILL Shellenberger, LOIS Shellenberger, MILAM CO	
Leland M. Burnett	185 6th Burlington, Tex. 76519	
Lane Burnett	" " " " MILAM CO	
Boyd Simms	Box 406, Buckholts, Tx 76518	
Lula Dettmar	504 N. Washington Cameron, TX 76520 MILAM	
Patricia Gilbert	2602 OLD WACO Rd. Cameron, TX. 76520 "	
Bernice Phipps	1290 FM 979 Cameron Tex 76520 "	
Willis M. Phipps	" " " "	
Frankie Joe Eller	793 Cr. 215 A Cameron "	
Melvin J Provasek	208 East 15th St Cameron "	
Winona Provasek	208 East 15th St Cameron "	
Bruce Provasek	P.O. Box 183 - Cameron "	
THOMAS W. WILEY III	177 CR 140 CAMERON MILAM CO	Thomas W. Wiley III
H B. McDermott	1358 CR 228 Cameron, TX. "	H B McDermott
Betty McDermott	1358 CR 228 Cameron, TX "	Betty McDermott

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Jones Solomon	750 CR 221 CAMERON TX MILAM CO.	
Larry Hardcastle	1705 N. Houston Milam	
Ora Hardcastle	✓ ✓ ✓	
Allen Dean	304 W 5th 254-791-9251	CAMERON TX MILAM CO.
Bill Shellenberger	1003 W main 627 9726	"
Lois "	" " "	"
Linda Miller	P.O. BOX 184 CAMERON TX MILAM CO	254-5635634
Violet Johnson	FM. 1600 "	254-421-7785
Irene Angell	1003 N Davis "	254 605-6013
Leon E. Riege	2306 W. Gills "	254-6976289
ED VONDRA	107 N KARNES "	
Alan Fowler	106 Wood Rd - Rockdale - MILAM	
THOMAS W. WILEY III	177 CR 140 CAMERON, TX MILAM	Thomas W. Wiley III
C. B. McDERMOTT	1358 CR 228 Cameron, TX "	C. B. McDermott
Betty McDermott	1358 CR 228 CAMERON, TX "	Betty McDermott

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Lucien Kruse	Cameron, Milam	Lucien Kruse
Ruth Kruse	Cameron, Milam	Ruth Kruse
JACK ALLEN	CAMERON, TX	"
Kenneth Sulf	Cameron Tx	" Kenneth Sulf
Paul Winkler	1496 CR218 Cameron Tex	" Paul Winkler
Marjorie Zaroskey	2702-B N. Polk- Cameron Tex	" Marjorie Zaroskey
Joyce Cochrane	611 E. 6th Cameron Tex 76520	" Joyce Cochrane
Elene Tonsil	993 CR 202 Cameron Texas 76520	" Elene Tonsil
Maxine Stoebner	703 E 17th Cameron Tex 76520	" Maxine Stoebner
Irvett A Burnett	Cameron Tex 76520	"
Barbara Gurecky	Cameron, Milam	Barbara Gurecky
Anita A. Walker	702 E 10th Cameron	" Anita A. Walker
Marie Spicer	700 WEST 26TH MILAM	"
Carolyn Krege	2300 W. Ellis Cameron	" Carolyn Krege
Virginia Dean	119 Wood Road Rockdale Texas	"

(15)

AGAINST

4

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Marie Shaw	3377 S. Hwy 36 MILAM Co. Cameron	Marie Shaw
Delores Manili	709 E 11th Cameron "	Delores Manili
Blasa Sanchez	101 S Kennes Ave Cameron "	Blasa Sanchez
FRANKLIN GLASER	2597 CR 218 Cameron "	Franklin Glaser
Evelyn Glaser	" " " "	Evelyn Glaser
Pat Holley	4054 N US Hwy 77 Rockdale MILAM Tx.	Pat Holley
Joyce Jaquin	530 WFM 485 Cameron, TX MILAM	
Billy Thompson	603 E 10th Cameron, TX "	
Jo Thompson	603 E 10th Cameron, TX "	
Defiantly AGAINST	Karen Troxel 707 E 12th Cameron MILAM Tx	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Jodie Koenig	943-FM 979	CAMERON, TX MILAM CO.
Richard Vejc	311 ash ave	"
Doris Eisfeldt	1045 CR 240 Cameron	" Doris Eisfeldt
Laverne Andrews	286 Cont yrd Cameron 76520	
Celeste Davis	286 Cont yrd Cameron 76520	" Celeste Davis
Yvonique Gonzales	3100 Greenlawn St. Taylor TX	WILLIAMSON
Russell McLeroy	3444 S. Hwy 36	Cameron MILAM
Betty McLeroy	3444 S. Hwy 36	Cameron "
Patrick Cole	1111-E 9th Street Cameron	MILAM Patrick Cole
Lucille Moss	504 E 9th Cameron 76520	MILAM " Lucille M. Moss
VICTOR MOSS	504 E 9th Cameron Tx 76520	" Victor Moss
Francinella Wheel	400 E. 6th	" Cameron
Stephen M. Brown	804 E. 18th	" CAMERON
Dorothy Mueck	304 N. Colfax	" cameron
Marjie Herick	N. Austin	" Cameron

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Daisy Manners	600 New Haven	CAMERON TX MILAM CO
Blanche Brown	2041 8 Street	"
Mary H Drone	908 N. Vogelsang ave.	"
Ethel Henderson	904 W. 3½	MILAM CO. Cameron TX
Dorothy Stevens	803 M L King Cameron Co. MILAM	
SANDRA TAYLOR	228 CR 255 E Cameron	" Sandra Taylor
ELLA HOLT	600 S POLK CAMERON TX	" Ella Holt
Gloria Sullivan	13259 E. FM 485 Cameron, TX 76520	MILAM CO Gloria M Sullivan
Loal D Cole	400 E 6th ST Cameron	MILAM Loal D Cole
Frank Stewart	900 S. Bowie	CAMERON MILAM Frank Stewart

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Tim Remy	9124 E. Winchcomb Dr. Scottsdale, AZ. 85260	Tim Remy

(1)

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SIGNATURES

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David W. West	525 CR 104B Buckholts TX 76518	David West
But Where are we gonna get my water?		
Berney Dusek	1808 N Hoover Ave Cameron TX	Berney Dusek
Beverly Emerson	122 CR 218 Cameron Tx	Beverly Emerson
Lacie Porterfield	120 W. Ave D Milano TX	Lacie Porterfield
Michael A McElheny	1698 CR 203 LP/Cameron TX	Michael A McElheny

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Ashley Vannadore	800 N Fannin Cameron TX 76520	Ashley Vannadore
Joleen Cahill	2105 W Gillis Cameron TX 76520	Joleen Cahill
Donald Hauk	710 E 18th St Cameron	Donald Hauk
Linda Hauk	710 E 18th Cameron,	Linda K Hauk
Brandon Veach	1009 CR 4250 Cameron	
Roy L Bantwell	706 E. 8th Cameron	Roy L Bantwell
Megan Guney	1755 C.R. 267 Milam Cameron	Megan Guney
Doug Price	1005 E. Gillis Cameron TX 76520	
Deborah Clark	1005 E Gillis Cameron	Deborah Clark 76520
James McLerran	3237 S Hwy 36 Cameron TX 76520	James McLerran
Kenneth Kohutek	796 CR 106 Buckholts	Kenneth Kohutek
LAURANCE BAUER	277 CR 406 Cameron 76520	Laurance Bauer
James Todd	4914 CR 353 Cameron	James Todd
Henry Willoughby	759 CR 206 Cameron	Henry Willoughby
Crystal Willoughby	759 CR 206 Cameron	Crystal Willoughby
Steve Simecek	1450 CR 218	Steve Simecek
Scott Komegay	2283 CR 343 Milam	Scott Komegay
Gayle Ward	901 W. 25th St Milam	Gayle Ward
R C. WARD	901 W. 25th St Milam	R C Ward
Kevin Ward	124 Robertson Ln Jarrell	William Kevin Ward
Ashley Bunch	124 Robertson Ln Jarrell Williamson	Ashley Bunch
PARKER BALDWIN	1755 CR 267	CAMERON, TX

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Brandon Hrbacek	731 cr 222 / Milam	
Mary Ann Eaves	2172 CR 425 Cameron	
Frances R. Price	908 E. Dilles Cameron	
	1507 N Cleveland, Cameron TX	
M.D. Green	22275 FM 1915, Bulverde / Milam	
Art Free	1599 Los Ruchitz Cameron TX	
Thomas Ray Wells	2885 Woodside Dallas Tx	
Paula J. Ellis	2885 Woodside 201 Dallas, TX	
Daniel Gressett	139 CR 238 Log Cameron TX	
JoAnn Konvicka Pilkey	3432 CR 343, Rosebud, TX 76570	
Kenneth & Janet Hees	1915 FM 1600 Cameron Tx	
Wm. L. Clayton	104 Sand Oak Rockdale, TX	
Jo Roden	1024 CR 206 Cameron Tx	
Jeff Henry	1347 FM 2095 Cameron TX	
Christy Baldwin	1755 CR 267 / Cameron Milam	
Shirley Henderson	6660 FM 1915 Buckholts, TX	
Dwight Lee	5862 Bracshcather, Harris Ct	
Jennifer Beard	284 CR 202A Cameron TX	
Skip Hobbs	Goetz Rd. Cameron	
Tom W. Wiley III	177 CR 140, Cameron, TX 76520	
CHARLIE THOMAS	5625 FM 3242 CAMERON TX 76520	
Michael McAnulty	650 CR 229 Cameron TX 76520	

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MILAM COUNTY SHERIFF'S DEPT. COPY

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Alan Harvey	P.O. Box 1213 Cameron	
Kevin Humphrey	1201 Buckhead Circle, Cameron	
Jon Trigg	435 CR 144 Buckholts	
Eric Perez	606 E 11th Cameron	
Bo Jones	1604 Murray Rockdale	
Nathan Hrabal	1222 ST HWY 320 COTT	

MILAM COUNTY SHERIFF'S DEPT. COPY

(6)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Chris Doskocil		
Chris Doskocil	633 W. Main St Rockdale TX	Chris Doskocil
Travis Spivey		Travis Spivey
Clifford Madgett	215 FM 1444 Burlington TX	Clifford Madgett
Rickey Mitchell	PO Box 361 Rosebud Tx 76570	Rickey Mitchell
Mason Marburger		Mason Marburger
Byron Wise	P.O Box 249 Gause, CR 348-2382	Byron Wise
David Greene	657 Goetz Rd Cameron 76520	David E. Greene
John Mendoza	5187 W. Hwy 36 Cameron Tx PO Box 844	John Mendoza
Nathan Lee	512 N. Jefferson 76520	Nathan Lee
Chris White	244 Goetz Rd. Cameron Tx 76520	Chris White
Doug Veach	P.O. Box 441 Cameron TX. 76520	Doug Veach
Rebecca Ferguson	1907 N. Jackson Cameron, Tx 76520	Rebecca Ferguson
Jeeric Ann Graeze	1300 D Central Cameron, TX 76520	Jeeric Ann Graeze
Laurie Wilson	PO Box 102 Gause Tx 77857	Laurie Wilson
Crystal Balboa	803 S. Henderson Cameron, Tx 76520	Crystal Balboa
Marissa Freeman	1505 N. Travis, Cameron, TX 76520	Marissa Freeman
Jessica Hernandez	102 S Ross, Cameron, TX 76520	Jessica Hernandez
Helen Reyes	506 W 7th Cameron Tx	Helen Reyes

MILAM COU
SHERIFF'S DEPT
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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Kathy Blush	P.O. Box 185 Milano, Tx. 76556/Milam Co.	Kathy Blush
Eugene Kleiber	2219 cr 237 Cameron, TX	Eugene Kleiber
Marjorie Kleiber	2219 cr 237 Cameron, TX	Marjorie Kleiber
Mary J Bell	1919 CR 344 Milano, Tx	Mary J Bell
Alton E Bell	1919 CR 344 Milano, Tx	Alton E Bell
Gerald Grace Jr	231 CR 355C Gause Tx	

(6)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
	3560 CR 313 ROCKDALE TX	SAMMIE JOHNSON
	1018 Hwy 77 Rockdale Tx	Tommie Pounders
Ernest A Garza	105 B South Post Rockdale Tex	Ernest A Garza
George Malone	6745 N.U.S. Hwy Rockdale TX 76567	George Malone
Logan R. Brasel	PO Box 254 Caldwell TX. 77836	
Donny J. Marek	540 Beverly Rockdale, Tx. 76567	Donny J. Marek
	Gause Tx milam	
CAMERON Morehead	Robertson county	
Deanna Pierce	834 CR 336 Milano Tx	Milam Deanna Pierce
Courtney Bishop	2085 CR 347 Loop Gause	Courtney Bishop
Sheila Lagrone	2085 CR 347 Loop Gause	Sheila Lagrone
Jason Lagrone	2085 CR 347 Loop Gause	Jason Lagrone
Morris Zawadzke	PO Box 83 Milano Tx	Morris Zawadzke
Brock Gage	1676cr 330 milano Tx	Brock Gage
Jessie Baggerly	1768 CR 446 Rockdale	
Richard Melton	1187 CR 336 Milano, Tx	Richard Melton
Marsha Lassetter	9793 E Hwy 79 Milano, Tx	Marsha Lassetter
Jack J Bost	603 Francine Dr, Rockdale Tx	Jack J Bost
Donna Perrin	3706 S. Hwy. 36	CAMERON TX
G.L Perrin	3706 S HWY 36	CAMERON, TX
Bill Barnett	402 W AVE J	Milano Tx. Bill Barnett

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
W.T. Silver	1647 SO. Hwy 36	W.T. Silver
William H. Hollingsworth	2601 W Main	William H. Hollingsworth
Dennis Mayhew	1056 CR 329 Milano	Dennis Mayhew

(3)

Stop the Government Takeover of our Land and Homes!

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SIGNATURES

NAME	COUNTY	SIGNATURES
Robert S. Wood	Robert S Wood	331 CR 229 Cameron
Gary Stewart	Gary Stewart	Milano, TX
Linda Smith		
Janice Shulander	Milam	
Wesley Lanham		
Matthew Synatzske	Matt Dyrd	Taylor, TX
Tom Owens	Bell County	Tom Owens

8

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Cynthia Capps	Milano	Cynthia Capps
Mary D Vinton	MILANO	Mary D Vinton
Carolyn J Vinton	MILANO	Carolyn J Vinton
Wesley Shafer	MILANO	Wesley SHAFER
George Houston	Cameron	George Houston
Michael Taylor	415 maple Grove Tx	Michael Taylor
Hayell Smith	Rockdale Tx	Hayell Smith
Darren Waldrop	Rockdale Tx/Milam	Darren Waldrop

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Cheryl L. Ramsay Stewart	2665 CR 344 Milano Tx. 76556	
Grover Morgan	3782 W Hwy 77 Rockdale Tx Milam	
MICHAEL HENDRIXSON	164 22NFM1487 Thorndale, TX 76577 Milam	
JAMIE LARSON	148 Private Rd 7050 Gause, TX 77857 Milam	
Gary Dubcar	4128 N FM 487 Rockdale Tx, 76567 Milam	
Harold E Dubcar	P O Box 122. Milano Tx. 76556 Milam	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
CURTIS W ABERNATHY	Milam 1206 CO RD 329	Curtis W Abernathy
Jay Perez	(Milam) 4824 CORd 448	
J. David Cost	(Milam) PO Box 1195 Rockdale	
JOE JACKSON	1221 N. Rockdale St Lexington, TX	
Kathy Cooper	Milam 483 Hartmann Ln. - Milano TX	Kathy C.
Joe Cooper	Milam 483 Hartmann Ln. - Milano TX	
	Milam 1225 FM 2269 - CAMERON. TX	
JE Jolly	14470 CR. 318 - Navasota TX	
Arvin Jones	Milam 3059 C R 322 Rockdale	
B. L. GRAHAM	Milam 713 CR 360 Milano TX 76556	B L Graham
Wesley RASCO	Milam 399 E Cherry St Gause TX. 77857	
Less Davenport	Milam 2428 CR 314 Rockdale TX 76567	
Christa Hernandez	Milam 220 N. Main St. Gause, Tx. 77857	Christa
A Tim Stewart JR	Milam 18705 Hwy 36 Milano TX 76556	
Tom Berry	Milam 316 Mary Rockdale, T.X.	
Royce Hudson	Milam 1469 ALCOA AVE. ROCKDALE, TX.	
Elia Soto	7874 Milano TX Milam Co.	
Christine Hebert	2553 Vernell Way, Round Rock TX.	Christine Hebert
	Milam Co 2406 CR 304 Rockdale TX	Steven Cargl
Kenneth Hollas	883 W FM 485 Cameron Texas 76520	Milam Co.
Sharon Hollas	883 W FM 485 Cameron Tx 76520	Milam
LEE Moody	1168 S Hwy CAMERON, TEX 76520	Lee Moody
	Milam Co.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Keith Stewart	2665 CR 344 loop Milano, Tx. 76556	Keith Stewart Milam Co.
Gary Morgan	1920 CR 346 Milano, Texas 76556	Milam Co.
Joey Jaeger	411 S. 1st St. Milano, TX	Joey Jaeger / Milam Co.
Maria Saucedo Milam	2093 CR 333	Rockdale TX 76567
DAVID JACKSON Milam	1078 CR-339 Milano TX 76556	
ALAN SCHULTEN Milam	~~Zoetis 6,~~ 5138 FM 3242 CAMERON	
Wendy B King	539 S. 5th Street Milano, TX	Milam Co.
Dagel Smith	635 Cardinal Rd Sweet Tx	Bimbo
Kenneth Shepard	Milam	
Charles Hentz	Milam	Charles Hentz
Joe N. Ochoa	Milam	Joe N. Ochoa
Dylan Lewis	Milam	Dylan R Lewis
BRYAN GRAHAM JR	Milam	
HARRY SARIVON	ROBERTSON	
Charles Buchanan	Milam	Charles Buchanan
EDWARD SCAMARDO	ROBERTSON	
Rebel Dale	Milam	
Ronnie Cox	Milam	
Darryl Stewart	Milam	
Milam Wendy Stewart	2620 CR 344 loop Milano, Tx. 76556	Wendy Stewart
Milam Doug Stewart	2620 CR 344 loop Milano Tx. 76556	
Milam Ashley Stewart	2453 CR 344 loop Milano, Tx. 76556	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
James Stewart	2453 CR 344 loop Milam Midland, Tx. 76556	
Chase Stewart	2453 CR 344 loop Milam Midland, Tx. 76556	
Michael Stewart	2644 CR 344 loop Milam Midland, TX. 76556	
Amanda Stewart	2644 CR 344 loop Milam Midland, TX. 76556	Amanda Stewart
Roy Wells	Gause	
James Nail	1300 Southwood Hillside Taylor, TX	
Gene T. Bomarden	Gause Texas	Gene T. Bomarden
Ally Bomarden	Gause Texas	
Kelly Bomarden	Gause Texas	
Kellie Mathews	PO-BOX 113 Gause Texas	
Harold Cartwright	204 Post Oak	
CHARLIE THOMAS	5625 FM 3242 CAMERON	
Jason Baita	5424 CR 358 Caldwell	
GARRY YARBROUGH	7917 FM 3242 Cameron TX	
Bobby North	8561 FM 79 Milano Tx	
	1994 CR 346 Milano, Tx CLYDE ADCOCK	
Phil Owens		
Gary Stewart	512-760-0266	
Mark Yarbrough	512 429-9141	138 CR 321 Rockdale T.
George W. Malone Jr.	602 Cedar Grove Rd. Rockdale Tx	
Wendell B. Tyler	2156 CR 302 Rockdale Tx 76567	
Catherine Cantu	Milam Co	2427 FM 908 Rockdale, Tx 76567

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Dixie Todd	Milam 5015 CR 353	
Linda Miller	1758 S US Hwy 36 Milano TX	
Wendy Stewart	2120 CR 344 Loop Milano TX 76556	
Sharon Burke	2453 CR 344 Loop Milano TX 76556	
George Burke	2453 CR 344 Loop Milano Tx	
Lori Owens	1245 CR 305 Caldwell Tx 77836	
Tim Owens	1245 CR 305 Caldwell Tx 77836	
Jess Miller	1758 S US Hwy 36 Milano TX 76556	
Crystal Denman	2147 CR 232 Rockdale TX 76567	
James Denman	2147 CR 232 Rockdale TX 76567	
Sharon Burke	2453 CR 344 LP Milano Tx 76556	
Gene Bonsteder	244 CR 382 LP Gause TX 77857	
Henry Silvey	939 CR 348 LP Gause TX 77857	
[illegible]	4645 FM 3246 Cameron TX 76520	
Leigh Owens	3525 FM 3242 Milano, TX. 76556	
Deanne Burnaugh	2724 Mt. Hope Rd. San Marcos	
MARY LOU KOREEM	2609 CR343 GAUSE, MILAM	

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SIGNATURES

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Polly Hall	1489 Country Club Dr. Cameron TX 76520	Polly Hall
Johnny Mebus	831 So. Hy 77 Cameron Tx. 76520	Johnny Mebus
Kenneth Arndt	8525 N. H. 36 Buckholts TX 76518	Kenneth Arndt
Stanley D Price	1003 E Gilley Ave. Cameron Tx 76520	
Timothy N. Peters	1199 CR 215 Cameron TX 76520	Timothy N. Peters
Billy Hann	3783 F.M. 2095 CAMERON TX 76520	
DON JONEK	1700 W. 4th CAMERON TX 76520 MILAM	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Melanie Reed	3053 CR 229 Cameron, Tx 76520	Melanie J. Reed
Rebekka Mayer	18222 N. F.M. 486 Buckholts, TX.	
Trey Young	336 CR 223 Cameron Tx 76520	
BRANDON VANN		
Coy York	1703 m carroll ave, Cameron, Tx	Coy York
Ken Stone	4053 FM 2095 CAMERON, TEXAS 76520	
Mary Layne	506 N Oak St. Gause, Texas 77857	
Sharon Rubay	1112 CR 206 Cameron, Tx 76520	
	FM 2095 Cameron, Tx 76520	
Virginia Rodriguez	PO Box 135 Cameron Tx 76520	
A L Longoria	471 CR 223 - Cameron Tex	
Brian Bradshaw	206 N. Crockett Ave Cameron	
Albert Michalke	1106 East 16th	cameron 76520
Charlotte Wyatt	507 W Main	Cameron 76520
Victoria Nevins	405 E. 16th St.	Cameron, TX 76520
Marion Travis	707 E. 16th	Cameron, Tx 76520
Mark Gale	1290 Long Mt. Rd	Gause TX 77857
Steve Gaylord	274 CR 104B	Buckholts, Tx 76518
John Vogelsang	P. Box 454	CAMERON Tex. 76520
Charlene Vogelsang	"	" " "
Colleen G. Wasing	4700 FM 3242,	Cameron, TX 76520
RANDY LEO	4700 FM 3242,	CAMERON TX 76520

22

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
BILL LAYNE	506 W. OAK (GAUSE) MILAM	Bill Layne
Darrell Johnson	505 S. FIRST MILANO, TX (Milam)	Darrell Johnson
Phyllis Shuffield	1542 CR 238 Rockdale TX	Phyllis Shuffield
Adam Price	1005 E. Gills Ave Cameron, TX	Adam Price
John Anderle	1101 E 19th Cameron	
RICHARD KNEPER	1054 CR 250 CAMERON TX	
ROBERT SCHILLER	1400 N. JACKSON CAMERON	Robert Schiller
MONICA M SCHILLER	1400 N. JACKSON CAMERON TX	Monica M Schiller
Colby Trevino	111 Vasser Ct Brazos TX	
Jose Rodriguez	314 Hickory St Lorena, TX	Jose Rodriguez
Alan C. Love	502 E. 12th St	Alan C Love
Charles D Casey	1222 CR 250	Charles Casey
J. M. Hewitt	323 CR 144	J. M. Hewitt
Theresa Breeden	808 E. 13th Ave. Belton, TX (Bell)	
Robert Morris	2304 W. 11th CAMERON TX	Robert Morris
Mark S. Brantley	4393 FM 3242 Cameron, TX	Mark S. Brantley
Sherri Brantley	" "	S. Brantley
Curtis Lacke	184 CR 147 Cameron	
Chris Wilson	675 Cox Hollow ROAD. Gause, tx	Chris Wilson
Frank Conde	" "	
Thomas W. Wilson	177 CR 140 CAMERON, TX	Thomas W. Wilson

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SIGNATURES

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Randy Denio	782 CR 226 Milam	
Jim Denio	850 Hwy 77 N. Milam	
Maurice Gorin Jr	2600 N. Travis	
Pete Gorin	1702 10 Street	
Danny Dreyer	1704 Sunset Circle	
Melvin Hollas	1221 W Fm 485 Cameron Milam	

6

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
GENE GOEKE	CAMERON 1706 GOLF LINKS - MILAM	
COLE YORKUM	MILANO, TEX 5589 EAST 79	
R.J. Willingham	P O Box 24 Milano 76556	
Matthew Betros	473 CR 224 Cameron, Tx 76520	
James Willis	461 Oak Park Four 76567	
Ronnie Mancillas III	303 Crockett st. 76567	
Andy Stone	3017 W FM 485	
Kenneth Andrews	286 CR 203 Loop CAMERON. FM 3117	
RUDY HRACHEVY	4850 TEMPLE	
Edwin F. Monk	3339 Cameron Tex 76520	
Amanda Childs	219 FM 1444	Burlington, Tx. 765
Darienne Wright	306 W Ave D St.	Rosebud Tx, 76570
Cam Kay	131 Falls st.	Marlin TX 76661
Paul H. Heltze	11675 N FM 486	Rockdale Tx 76567
Sylvia Butler	6503 Moody Rd.	Moody TX 7655
Bobby Butler	"	" " "
Milam County Farm Bureau		
Jim Armstrong	122 W 4th Heart of Robertson	
Travis Meyer	8643 Paddy Hamilton Bell	

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Jose	140 cr145/Burleson	
Carla	Loop 348 Milam	Carla Rodriguez
Ken Rhodes	1445 22 Hills Road - Milam	
Carla Rhodes	" "	Carla Rhodes

MILAM GRAIN 32

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Elton Cowan	1501 Wallace, Milam Co	
Terrol O'Neal	728 CR 240 milam Co	
Emily Ellen	371 cr 228 c Milam Co.	
Millard Mundy	Milam Co	
Joni Mitchan	Milam County	
Karen McDermott	371 CR 228C Milam County	Karen McDermott

(6)

STOP LITTLE RIVER OFF CHANNEL RESERVOIR

	PRINTED NAME	ADDRESS	SIGNATURE
1	Loren Warnick	1067 CR 228 Cameron, TX	Loren Warnick
2	Polly Hauk	1409 Country Club Dr. 76520	Polly Hauk
3	Carol DeLong	2652 E FM 485 Cameron TX 76520	Carol DeLong
4	James Vogelsang	103 CR 136 A Burlington TX 76519	J. Vogelsang
5	FRANK KLECKA	2103 N. AUSTIN CAMERON, TX 76520	Frank Klecka
6	Beaver Sheffield	431 CR 230 Cameron Tex	Beaver Sheffield
7	Sheryl Overall	Box 393 Milano	Overall
8	John Overall	" "	John Overall
9	Betty McDonald	1009 E 7th Cameron TX Buckholts TX	Betty McDonald
10	LESLIE LORENZ	1903 CR 104	Leslie Lorenz
11	Katie Karl	1950 CR 330 Milano Tx	Katie Karl
12	Derrick Rezicka	606 Buckholts TX	Derrick Rezicka
13	Roderick Holcombe	1000 N. Fannin Cameron	Roderick Holcombe
14	Elizabeth Hewell	PO Box 846 Cameron	Elizabeth Hewell
15	[redacted]		
16	TEDDY MAYER	883 CR 137	Teddy Mayer
17	Douglas Buck	2702 N. Polk Apt A Cameron, TX	Douglas Buck
18	Ryan Karl	1968 CR 330 Milano, TX 76556	Ryan Karl
19	Darrel Karl	1950 CR 330 Milano, TX 76556	Darrel Karl
20	Gary Randell	581 CR 200A Buckholts TX	Gary Randell
21	RICHARD KRUEGER	1054 CR 250 Cameron TX	Richard Krueger
22	CODY ALLISON	1479 CR 228 Cameron	Cody Allison
23	Jerry D. Goshia	707 East Sixth St Cameron	Jerry D. Goshia
24	Beverly Emerson	122 CR 218 Cameron	Beverly Emerson
25	Scott Allen	2903 Fairway Dr. Temple, TX 76504	Scott Allen
26	Janet Gloger	2588 CR 258 Cameron, Texas	Janet Gloger
27	KRIS MUECK	648 CR 220 Cameron TX	Kris Mueck
28			
29			
30			

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Rusty Abbott	4251 FM 3310 S Henderson, TX	
Anna Dolenc	979.953 8375 Gause	
[illegible]	979-299-5357 8015 CR 353 Gause	
[illegible]	979-229-2129	
Loyd Lazar		
[illegible]		

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
M. Smith	221 N. Arendell / Milam County	
Matt Logan	235 Charlottesville St / Harris County	
Pixie Parks	922 Deer Hill Bryan TX	
	5424 CR 358 Caldwell	
	5424 CR 358 Caldwell	
Lee Honeycutt	705 East Garrett Calvert Tx	
Darrell Mc Mc	2189 CR 347 LP, Gause, TX	
Cindy McManus	2189 CR347 LP, Gause, TX	
martha Ruddick	979-280-0232 Gause TX	
LoAnn Rees	979 280 0232 Gause TX	
Melvin Collard	— Gause TX	
Kathy Laurence	PO Box 13 Gause, Tx 77857	
Tyrone Trujillo	7995 Prospect Dr 77803 Tyrone Trujillo	
	279-2506 Gause Tx	
Walter Matthews	820-2399 Heard	
Danny Hitchcock	5954080	
Ellen Mayer	7469 CR 333 Burleson Ellen Mayer	
	2146 16th Hempstead Tx 77445	
William Almonds	221 Olive Milam Gause Tx 77857	
Glen Myers	— Midland TX	
	11985 FM 2095 Gause Tx 77857	
Jack C. Marino SR	1800 22 Hills Rd Gause, Tx 77857 Jack C. Marino	

(22)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATUR.
Homer Lee Mowdy	7896 FM 2095 Cameron TX.	
Frances Yocum	5253 S. HY. 77 Cameron TX. 76520	
Norma Thaler	688 Cold 239 Cameron, Tex 76520	
MAGDALENO	CANCINO	
Ernest Pachuco	Gause TX	
Elton Frost Jr.	626 Elm Willow Ct. Spring Tx	
Kathy Frost	62 Elm Willow Ct. Spring Tx	Kathy Frost
Leroy Wedgeworth	P.O. Box 181	
Bobbie A Jahae	P O Box 861	Rockdale, Tex
Truman E. Ditto	P.O. Box 313 Gause, Tx. 77857	Truman E. Ditto
B Ferson	Box 92	GAUSE TX
Ray Thompson	5203 CR 190 Caldwell Tx	
Joel Cannon	8234 #79	Killeen Tx.
William Seelke	607 CR 300	Rockdale Tx
Ronald Ray Pate	109 W 2nd	Nearne Tx
Bruce Williams	1120 WEST	
Paul E Allison	CR 358	
Leland Gates		
Brandi Rollings	439 CR 350A Gause	
Mari Grandchamp	139 CR 350A Gause	
Brianna Summerlin	531 CR 350A Gause	
Gallaway, Son	5325 Stonewood Ct.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
DARWIN MCCRARY	252 CACTUS WREN NB TX 7873[illegible]	
JESSICA MCCrary	252 Cactus Wren NB/TX	
[illegible]	274 CR 344	
Mike Keele	3416 N. Hwy. 77	
Richard Jay Youngblood	12440 CR 2000 Hix	
Luz Almond	221 OAK WEST (HICKS)	
JASON Barta	5424 CR 358	
LEON Woods	Gause TX	
[illegible]	GAUSE TX	
JIMMY Holmes	BARTLETT TX	
Edward Stewart	GAUSE TX	
ARTHUR HERNANDEZ SR	HEARNE TX	
ARTHUR HERNANDEZ SR	HEARNE TX	
Karen Machalek	Troy Ivy / Bell	
[illegible]		
[illegible]	Comanche	
Brenda Wall	Gause	
Dollie Scanlin	Gause TX.	
Johnnie Dell Smith	Gause TX.	
Robert Owen	Gause TX.	
Randy Jones	Gause TX.	
Opie Owen	Gause TX.	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Albert Ruddick	Gause TX.	Albert Ruddick
Billy Bennett	Gause TX.	Billy Bennett
Lou Ann Bennett	Gause TX.	Lou Ann Bennett
Michelle Reese	Gause TX.	Michelle Reese
Elmer May Reese	Gause TX.	Elmer May Reese
Teresa Johnson	Gause TX.	Teresa Johnson
Rufus JacksonReese	Gause TX.	Rufus Jackson Reese
Rosie Henery Reese	Gause TX.	Rosie Henery Reese
MARTIN JOSEPH ELMAN	ROCKDALE,	
Blake Hobbs	Gause TX	
ROBERT GASTON	GAUSE, TX	
Irmalie Goode	Gause Tx	
J.T. THOMPSON	MILANO TX	
Jesse Ruiz	Gause TX	
Harold Baker	3464 FM2095	Cameron Tx
Cecil Wilson	8317 CR528	Burleson Tx.
Dave Wilson	CR 119	Centerville Tx
Mark Wilson	P.O. Box 433 Calvert Tx	Mark Wilson
Antonio Z. Flores	Hearne Tx	
Rosa Henry	Gause Tx	Rosa Henry
Rufus Reese	Gause TX	
Xavier Flores	Gause Tx	

22

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Sarah Flores	Gause Tx	Sarah Flores
Amber Reese	Gause Tx	Amber Reese
Jacoby Reese	Gause Tx	Jacoby Reese
John L. Paniagua	Milano Tx	John Paniagua
Gloria Paniagua	Milano, TX	Gloria Paniagua
Jason Paniagua	Milano Tx	Jason Paniagua
John Paniagua, JR.	Milano, TX	John Paniagua, Jr.
Christofer Linkem	Gause TX	Chris Linkem
Melinda Linkem	Gause TX	Melinda Linkem
Kayne Lee	Gause	Kayne Lee
Jan Willard	Gause, Texas	Jan Willard
Craig Hussong	~~HARRIS CO~~ HARRIS CO	Craig Hussong
Ed Lanella	Milam	Ed Lanella
Mary Ann Russell	Milam/Gause	M Russell
~~Kenneth~~ Roper		
Roy Wells Jr	Gause TX	
Penny Shepperd	Gause TX	
Melanie Shepperd	Gause TX	
Daniel Ditto	Gause TX	
Michelle Tibbitts	Milano TX	Michelle Tibbitts
Jeff Morgan	Cameron TX	Jeff Morgan

22

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
R.L. Shofner	688 Co. Rd 259 Ameron, TX 76520	
Clint Rollings	439 CR 350A Gause TX	
Ashley Shockley	2395 CR 353 Gause, TX 77857	
James Shockley	" " "	
Libby Shockley	" " " "	
Leslie Rockers		
Dalton Rockers		
Lisa Ruddick		
Wilda Ruddick		
Laura Ditto	7118 CR 353 Gause, TX 77857	
Rebecca Payne	PO BOX 316 Gause, TX 77857	
Jordan Millar	" " " "	
Joshua Millar	" " " "	
Clint Dollahon	" " " "	
Jim Millar	" " " "	
Dollie Millar	" " " "	
Brady Byrd Bishop	989 CR 353 Gause TX 77857 Milam	
Nathan Bishop	" Milam	
Tracy & Lisa Dixon	1117 22 Hills Rd Gause Tx 77857	
Cindy Brehee	308 Holcombe Dr. Lexington TX 78947	

(21)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Walter Ray Ditto	P.O Box 265 Gause Tx Milam	
Mr. Mrs Melvin Anna Collard.		
Danny Hitchcock	7469 CR 333 Caldwell	
	422 CR 350A GAUSE	
	251 CR 435	
Leland Stanford	PO Box 273 Gause	
Cindy Stanford	PO Box 273 Gause	
Larry Gluhm	7 S Thomas Lake Rd Walker	
Frank Herrera	2091 CR-259 Cameron Tx	
	The Woodlands	
Amy Birchfield	1423 ACR 469 Palestine Tx	
Olivia Tompkins	1423 ACR 469 Palestine Tx	
Brandon Stanislaw	6404 CR. 264 Gause TX	
Kelsey Stanislaw	6404 CR. 264 Gause TX	
Linda Brown	1169 CR 348 Gause TX	
Jerry Brown	1169 CR 348 LP Gause, Tx	
L. C. Wallace	201 Oak Clawson Rockdale TX	
Mark Russell	1780 CR 347 LP Gause, TX	
Brenda Vandeventer	PO Box 15 Chriesman TX	
John N. + Linda Green	1250 Salem Rd. Brenham	
Michael Lange	13284 FM 2095 Gause	
Jack Heath	10639 HEATH LN. Bryan	

CAMERON TIRE #2 41

Stop the Government Takeover of our Land and Homes!

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Alan Harvey	P.O. Box 1213 Cameron	
Kevin Humphrey	1201 Buckhead Circle, Cameron	
Jon Vraspir	435 CR 144 Buckholts	
Eric Perez	606 E 11th Cameron	
Bo Jones	1604 Murray Rockdale	
Nathan Underhill	1222 ST HWY 320 Lott	

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Chris Doskocil		
Chris Doskocil	633 W. Main St Rockdale TX	Chris Doskocil
Travis Spivey		Travis Spivey
Clifford Madgett	219 FM 1444 Buckholts TX	Clifford Madgett
Rickey Mitchell	PO Box 361 Rosebud Tx 76570	Rickey Mitchell
Mason Mashburn		Mason Mashburn
Byron Wise	P.O Box 249 Gause, CR 348-2382	Byron Wise
Scott Elliott	Milam	Scott Elliott
Bobby Elliott	Rockdale	Bobby Elliott
James R. Parker Sr.	414 CR 228C Cameron TX.	James R. Parker Sr
Leroy Stephens	462 CR 446 Rockdale	Leroy Stephens
Susan Cunningham	184 CR 234 Loop Cameron	Susan Cunningham
Terry Cunningham	184 CR 234 Loop Cameron	Terry Cunningham
Mona Simecek	1450 CR 218 Cameron	Mona Simecek
Delad Ezequiel	East Howing	Cameron Ezequiel Salas
Dennis Wallace	9290 E US Hwy 79 Milano	Dennis Wallace
Ted Martin	5116 Waterford Dr. Temple 76502	Ted Martin
Frank DENIO	782 CR 226 Cameron, TX 76520	Frank Denio
James Anderle	902 E 18th Cameron TX 76520	James Anderle
Carl Foster	284 CR 202A	Carl Foster
Philip Schuth	706 East 16th Cameron Tx 76520	Philip Schuth
Kim Burba	1705 Harding Cameron TX	Kim Burba

(21)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Jeanne Schmeck	3723 S Hwy 77 - Milam	Jeanne Schmeck
Greg Schmeck	3723 S Hwy 77	
Dodie Wilkins	3735 S Hwy 77	Dodie Wilkins
Maria E. Villarreal	537 Los Tejanos RD	Maria Villarreal
Eduardo Ortiz	CR 338 Milano	Eduardo Ortiz
Todd Rainey	205 CR 338 Milano	Todd Rainey
Alan Fisher	3310 CR 457	STAN OF ISHER
Bien Harris	1407 N Travis	Bien Harris
Quinyn Harris	Cameron, TX 76520	Quinyn Harris
Jackleene Montoya	7068 CR 249 cameron	Jackleene Montoya
Kennethy Lara	1204 East 15th Cameron	Kenneth Lara
W.K. Madison	129 CR 238 A CAMERON	W.K. Madison
Kolette Morgan	602 E 10 Cameron	Kolette Morgan
STANLEY MORGAN	CAMERON	Stanley Morgan

(14)

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
	M. Tam	
	Milano 175 CR 338	
	Cameron TX	
	Cameron	
Diana Smith	Caldwell TX	Diana Smith
Erica Leadford	Cameron / Milam	Erica Leadford

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Patti Kieffer	14480 Knob Hill Rogers, Tx	Patti Kieff
Jim C. Richardson	2850 CR 412 Rockdale, Tx	Jim C. Richar
Elyne Upham	1039 C.R. 258	
Lonnie Lorenz	2539 CR 139 Cameron	
Lisa Roden	1074 CR 206 Cameron	Lisa Roden
Marie	12650 FM 2410 Belton	Marie
Robert H. Glenn	2818 N. Hwy 36, Cameron -	
Jared Brock	588 CR 214 Cameron	
Derrick Holt	641 CR 2655 Cameron	Derrick Holt
Blair Dorner	433 CR 140 Cameron TX	Blair Dorner
Richard Frock	913 CR 237 CAMERON TX	
EARL Colley	1629 CR 241 Cameron TX	
John Terry	20239 NFM 486 - CAMERON TX	
Victor C. Moss	504 E 9th Cameron Tx 76520	
JOHN C. WALLACE	P.O. Box 268 CAMERON TX	
Leon E. Rieger	2300 W. Gillis Cameron, TX	Leon E Rieg
Roy E. Haines	314 FM 1600 CAMERON TX	
ReNae Dart	300 PR 6040, 3351 FM 2095 Cameron TX	ReNae Dart
Amanda Duncan	2240 E FM 485, Cameron, Tx	
Eric M. Strom	582 CR. 214 CAMERON TX.	
A. L. Sinclair	178 CR 265 Cameron, Tx	
Laurence Schattle	707 E. 10 ST	CAMERON

22

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Hugo B Lucio	Po Box 142 Milam	Hugo B Lucio
Cathy Enrriquez	1066 CR 241 Milam Co.	Cathy Enrriquez
Kim Stewart	709 CR 328 Milano Tx	Kim Stewart
Richard Gordon Todd	PO Box 409 Rockdale Milam	Richard Gordon Todd
Chaad Johnson	1299 CR 246 Milam	Chaad Johnson
Johnny Mikeska	831 So. Hwy 77 Cameron Tx	Johnny Mikeska
	1003 East 4th Cameron	

(7)

Stop the Government Takeover of our Land and Homes!

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Joe Barbo	7634 FM 485 E Cameron, Tx Milam	
	633 South Red Canyon	

(2)

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
STEPHEN Scott SHELTON	1105 E 12th ST Cameron TX 76520	
Douglas Sonntag	1567 FM 431 Lot 71 TX 76656 Falls Co.	
John D Thompson	1806 N Harding Cameron 76520 4780	
MICHAEL J. SHELTON	730 CR 226 A CAMERON Tx 76520 MILAM CO.	
Chet Cyr	1602 Sunset Cir Cameron, T	

(5)

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Shelley Eanes	446 Murray, Milam	Shelley Eanes
Kenneth Haverkamp	4939 N FM 487	Kenneth Haverkamp
Jim Eanes	446 Murray	Jim Eanes
Vernon Guest	704 Hunter Dr.	Vernon Guest
Delbert Yarbrough	310 Cty. Rd. 305 Rockdale 76567	Delbert Yarbrough
Joy Woolverton	704 Morrison Dr. 76567	Joy Woolverton

(6)

SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Juanita Dawes	718 Ayers	Juanita Dawes
Carley Rogers	200 Parkway St. #15 Rockdale, Tx 76567	Carley Rogers
Donna Barker	606 Francine Dr, Rockdale, TX 76567	Donna Barker
Rock Eanes	615 Murray Rockdale TX 76567	
Sharon Cloud	Milam Cnty 521 San Gabriel St, Rockdale, Tx	Sharon Cloud
Richard Johnson	637 N. Wilcox Rockdale Tx 76567	Richard Johnson
Rick Henderson	1703 Sager Rockdale Milam	Rick Henderson
Frank Burford	1703 Murray Ave Rockdale	Frank Burford
David Hamilton	4130 FM 1712 Rockdale TX	
Denise Wallace	300 Hazel Rockdale Milam County	Denise Wallace
DEBRA Heale	410 Boyd Ave. Rockdale	Milam County Debra Heale
BILL KELLY	404 BOYD AVE. ROCKDALE	Bill Kelly
Kennard Morton	8015 PR 1011 Rockdale	Burleson County Kennard Morton
JERRY CAYWOOD	215 PINEY RIDGE DRIVE	BASTROP, 78602 BASTROP COUNTY

14

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Lisa Glaser	564 CR 126 Buckholts/Milam	Lisa Glaser
Geri Burnett	2101 O'Kelley Rd, Rockdale, Milam	Geri Burnett
Ruth Heath	885 Cty Rd 333 Rockdale, Milam	Ruth Heath
THOMAS RAYMOND	206 N. AUSTIN AVE. CAMERON, TX. MILAM CO.	
SANDY TURNER	6335 ~~5665~~ CR 328, MILANO, TX	Sandy Turner
Mardell Oates	872 CR 309 Rockdale	
Janelle Greene	657 Goetz Rd. Cameron, TX. 76520	

STOP LITTLE RIVER OFF CHANNEL RESERVOIR

	PRINTED NAME	ADDRESS	SIGNATURE
1	~~[illegible]~~		
2	Bonnie Raymond	240 N Austin, Cameron TX	Bonnie Raymond
3	Kay Stark	502 San Juanita Rockdale, Tx	Kay Stark
4	Jane Monroe	1006 E. 19th Cameron, TX	Jane Monroe
5	Denise Betchan	21030 Kelley, Rockdale, TX	Denise Betchan
6	Marlis Davidson	721 CR 317 Rockdale	Marlis Davidson
7	Blane Caywell	703 East 10th Cameron	Blane Caywell
8	Ernie Cates Jr	2825 FM 1712 Rockdale TX 76567	Ernie Cates
9	Stacy Zalesky	362 Benmont Cameron, TX	Stacy Zalesky
10	Betty McDonald	1009 E 7th Cameron TX	Betty McDonald
11	Carol McDaniel	P.O. Box 304, 404 Oak Lawn Dr	Carol McDaniel
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(10)

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Misty Moore	1101 N. Burns / Milam	Misty Moore
Marissa Freeman	1505 N Travis / Milam	Marissa Freeman
Austin Reymundo	403 E 16th St	Austin Reymundo
Hey L Hale	1505 N Travis	Hey L Hale

(4)

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SIGNATURES

NAME	ADDRESS/COUNTY	SIGNATURES
Kenid E. Newberry	Milam County	
Joe Balch	Milam County	
Gloria Cawvard	Cameron, TX, Milam County	
Jill Ayers	604 W. 22nd ST. Cameron	Jill Ayers
Trey Stanislaw	Cameron Texas/Milam	
Jan Eanes	CAMERON, TEXAS / Milam Co 1376 CR 250 Cameron	

7

C C Sheffield / Camron / milan / Charlie Shuffield

David Finch / Cameron / milan / David Finchu

Larry Ayers - Cameron - TX - Milan - County - Larry Ayers

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10

COMMUNITY ENGAGEMENT

Overview:

Landowners and supporters in Milam County are leading a grassroots movement to stop the Little River Off-Channel Reservoir. This section provides documentation of our efforts and a sampling of speeches given to the Brazos G board. Highlights are listed below:

- June 11, 2015 Community Meeting:
  - Over 100 landowners and supporters attended a meeting at Gause Baptist Family Life Center to get involved and get informed.
- June 23, 2015 Brazos G Public Hearing:
  - 150+ community members attended the Brazos G Public Hearing to oppose the Little River OCR. 14 speakers spoke against the reservoir.

Little River Off-Channel Reservoir

The Little River Off-Channel Reservoir Environmental Impact
Author: Joyce Conner

Good Morning, Board Members. I am Joyce Conner. My husband Mike and I are relatively new to Milam County, but "we got here as fast as we could." Mike's great grandparents settled in Grimes County and mine in the Hill Country. We are blessed that we found such a beautiful area in between our two large extended families. And, it only took us 13 years of searching!

We own just over 700 acres in the Reservoir targeted area, and are sure to lose 85% of it to the flooding. And maybe more if needed for buffer and mitigation.

And, there will definitely be mitigation. We practice wildlife management and we have accumulated over 40,000 photos of plants, animals, and management practices that we have taken on our property in the last 12 years. These were culled from at least double that number. About 75% could have been taken anywhere in the proposed reservoir area. (Note: I will be showing a slideshow of ~150 of these photos during my talk.)

We are committed to be stewards of this land. As stewards, we are dedicated to its protection, restoration, and improvement. I hope to speak for all of the other landowners who treasure Milam County land, animals, and plants.

Some of the things we have done:

- Spent over $200,000 (and countless hours of labor) on wildlife management equipment, repairs, materials, and projects;
- Had designed a custom "green building" house by our architect son to reduce impact on the environment;
- Retrofitted two man-made water ponds;
- Maintained over ½ mile of pristine Alligator Creek and an undeveloped riparian zone;
- Restored ~75 (out of ~600) acres of native oak forest by using mechanical and chemical means to reduce the woody understory;
- Made and/or maintained ~20 miles of trails and meadows for wildlife and data collectors;
- Removed invasive species – over 200 Chinaberry trees and many feral hogs

- Water stored during the year can be used during dry, hot months.
- Maximizes use of pumpage allocations from the aquifer throughout the year.
- Underground storage means no evaporation.
- Less vulnerable to contamination than surface storage.
- Most land directly above the underground reservoir can continue its prior use!

• New conservation paradigms

It is time to rethink everyone's water use. Implement stricter conservation practices and educate citizens on how and why it is important to save water. Some examples are:

- Use native drought resistant plants or xeriscaping;
- Reduce large fields of exotic grasses in public areas;
- Reduce impervious cover

For the sake of the Environment, please revise your water plans and remove Little River Off-Channel Reservoir from them. Thank you.

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- Participated with state, county, environmental, and federal agencies on:
    - Replanting pastures with native grass seed for Upland Birds
    - Restored wooded areas under a conservation easement agreement for the endangered Houston Toad

- Collected and archived data from:
    - 40,000 plant and animal wildlife photos; daily journal observation entries
    - Biannual bird surveys by Audubon (see eBirds.org)
    - Herpetology survey of Alligator Creek and pond areas; A&M to plan additional surveys
    - 40 Eastern Bluebird nest boxes along on fence lines (see nestwatch.org, Cornell University Lab of Ornithology)
    - Box Turtle Watch and Project Feeder Watch (see feederwatch.org, Cornell University Lab of Ornithology)

    Also, A&M classes have been invited to help with identification of historical sites and artifacts.

Now we find that our land may be confiscated to construct a reservoir of water. Is destruction of the surface land for this purpose a necessary solution?

"*Reservoirs are inefficient ... due to evaporation, and the major ones lose as much as 2.3 trillion gallons of water per year*, according to the Texas Water Development Board" (The Oregonian, June 18, 2015). In addition, we know they are of extremely high cost to utility users, landowners, wildlife, environment, and communities.

And there are now alternative solutions which can be implemented as long as we consider unintended environmental impacts:

- Ocean and groundwater desalination
- Aquifer Storage and Recovery
    - Environmentally friendly method of storing aquifer drinking water in a designated aquifer.

Environmental Impact of Reservoirs on Texas Lands

Joyce Conner, Cedar Hill Ranch, Gause, TX 77857

Depending on where you live, when you leave your house, you will travel over brooks, creeks, and/or rivers as you go about your daily business. Each stream is part of an intricate network of water that flows across the land. Each tiny rivulet of water feeds into the next larger one downstream, and then into the following larger one downstream, and on and on until (and if) the water finally finds its way into the sea.

The way we care for the land around each stream that feeds water into it (called its watershed) determines the health of the whole country. If we pollute or negatively impact the water in even the smallest stream, it will likely affect all of the others along its path. It is easy to visualize that if we dirty our water upstream, this will affect the cleanliness of the water downstream. A lot of money is spent trying to clean up and repair watersheds.

But, sometimes we forget that keeping the water clean or available for people is not our only goal.

Watersheds also create unique ecosystems that protect and sustain our wildlife. *The Practice of Watershed Protection*, a compilation of information about watershed research and trends funded partly by the U.S Environmental Protection Agency, states that "small streams and their riparian areas are the single most important habitat for both terrestrial and aquatic wildlife in any landscape." They provide life-giving water and "create a critical wildlife corridor that links downstream habitats with upland ones." That "corridor" is the home of many unique plant and animal species, whether in the stream or on the land.

In addition, the stream and its riparian area serve to filter out unwanted materials like carbon, sediment, and certain nutrients, thus leaving the water and surrounding land in a cleaner more healthy state.

We tend to forget that the small streams are so important (giving more of our attention to the large rivers, lakes, and estuaries downstream) but research has shown that they are best left in their natural conditions. In this way they can best serve plants, animals, and people upon which they depend.

Every time we modify a watershed, riparian area or stream, we negatively impact its benefits. Whether we cut down the forests, remove native grasses, construct channels to move water more quickly through urban areas, install large areas of impervious cover, or flood the ecosystem with a reservoir, we are negatively affecting the whole system.

The Brazos G proposed water plan evaluates 14 new reservoir options to meet future water needs. In this report environmental impacts are listed and weighed by some cost analysis process. What is missing is the impact of losing all of these forested valleys, all of these springs, all of these primary watersheds -- all these very unique ecosystems from our Texas rural areas.

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The Little River Off-Channel Reservoir plan does not consider the uniqueness of the watershed in Milam County that would be destroyed by the reservoir. It would destroy a number of beautiful small streams and their mostly pristine riparian areas. For example, this reservoir would flood about 7/8 of pristine Alligator Creek and its mostly undisturbed riparian area. It would also flood much of Yellow Rabbit Creek and a unique dogwood forest in its watershed.

A number of the owners in the proposed area practice wildlife management on their land. The creeks are protected and in most cases left as natural as possible. I would suggest that the Alligator Creek/Yellow Rabbit Creek riparian areas are two of the most pristine in the State.

Janice Bezanson with the Texas Conservation Alliance (formerly the Texas Committee on Natural Resources) states, "We are opposed to all unneeded reservoirs or reservoirs for which there is an economically feasible lower-impact alternative."

You can argue that off-channels can provide a water supply while causing less environmental damage than a larger on-channel reservoir. But stricter water conservation, water reuse and other low-cost water supply options **should be the preferred strategies** in any plan that hopes to meet the water needs of people while also minimizing the impacts on our Texas environment. For, once these valleys are flooded, they will be irrevocably damaged. We Texans will have lost a valuable part of our state forever.

Please remove this reservoir from your plans. Thank you.

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Little River Off-Channel Reservoir

Recommendations and Analysis

Mike Conner
mike@conner.net

Recommendations

1. Remove the LR-OCR from the recommended list in the 2016 plan
   - Very high risk
   - Not cost effective
2. Substitute less damaging, lower risk, and lower cost alternatives
   - 95% of the growth in Williamson County water needs in 2070 comes from metropolitan use
   - More aggressive conservation and waste water reuse can meet these needs
3. Remove the LR-OCR area from the Unique Reservoir Site list, and from evaluation in future water plans

Recommendations

4. If not dropped then move the targeted completion date to 2060 or 2070

LR-OCR is High Risk

- About 1/3 of the reservoir is over the Carrizo-Wilcox aquifer outcrop
  - May leak into the aquifer, which will heavily pumped in the future
  - Testing can show that the reservoir will fail
  - The science in not there to prove the reservoir will not fail after 10 or 20 years, when pumping increases.
- Permitting: Army core of engineers requires a reservoir to be the *least damaging* of all practicable alternatives.
- Land owner resistance
  - "Sec. 21.0121. CONDEMNATION TO ACQUIRE WATER RIGHTS" of Texas Property Law gives land owners very strong rights to resist condemnation.
- Others will talk about environmental risks, and historical/cultural risks

Cost/Benefit Analysis of LR-OCR

- Cost to LR-OCR Users (assuming BRA underwrites cost of reservoir)

Completion Date	2020	2030	2040	2050	2060	2070
Cost per 1000 gallons to LR-OCR Users		$ 29.24	$10.82	$6.37	$4.00	$2.70

Would raise Hutto water rates by 40%

- Comparison to Allens Creek OCR
  - Cost of Allens Creek Reservoir/Yield (ac-ft/year): $1,950
  - Cost of LR-OCR/Yield (ac-ft/year): $4,430
  - Impact on current customers of BRA

Twice the water for 1/3 of the rate impact

	% Increase in available water	% Increase in System Rate
LR-OCR	2%	62%
Allens Creek Reservoir	4%	20%

What's in a Name? Reflections on the Historic Pin Oak Cemetery

Author: Melissa (Baumann) Shehane, Ph.D.

Brazos G Public Hearing: June 23, 2015

Good Morning. My name is Dr. Melissa Baumann Shehane, I reside in Brazos County, and I am representing the Baumann, Shafer, Shehane, Hahn, Russell, Young and Kopriva Families today. A comprehensive list of family members is noted at the bottom of this speech, which will be submitted as public record for the purposes of this hearing. We ask that you REMOVE the Little River Off-Channel Reservoir from the Brazos G 2016 Regional Water plan.

What's in a name? We see names everyday. Do you ever stop and wonder what a name truly represents? For instance, my name. From reading my name one might conclude, that I am a woman, my name sounds American, I have Irish and German heritage, and I have a doctorate. Beyond that not much else is known...UNTIL...you begin to peel back the layers and truly explore the identity beyond my name. Then, you would learn that, I represent the 4th generation on my family's land, land that has been designated by the Texas Department of Agriculture as property that has been a continuous agricultural operation for over 100 years by the Family Land Heritage Program, I am a Christian, I have rural roots, I love agriculture and our precious environment, I am part of the millennial generation, I studied both renewable natural resources and agricultural leadership in college, I am a daughter, sister, mother, wife, and friend, and every day I go to work at an institution of higher education and strive to mold active citizens that become leaders in their communities who serve those in need. As you can see, a name is not just a group of letters strung together on a page. A name represents an identity, a contributing member of society, and collectively - our cultural heritage.

If the Little River Off-Channel Reservoir was to come to fruition, engineers building the site would be allowed to dig up names, dig up bodies of my ancestors – our ancestors, which are part of our community's cultural heritage and recognized as a Historic Site in the State of Texas. This historic site I am referencing is the Pin Oak Cemetery. What's significant about this cemetery? Why should you care? Let's look at the numbers. According to the Texas Historical Commission, there are over 50,000 cemeteries in Texas (Texas Historical Commission, 2015). However, only 1,706 are designated as Historic Cemeteries – which means the Pin Oak Cemetery is listed among 3% of historic cemeteries within approximately 171 million acres in the State of Texas. There are about 130+ graves, including 9 graves of Civil War soldiers, one of which is my great-great grandfather (Jerry Watson), one soldier from the Korean War, and many more dating back to the Civil War era. On a personal note, my beloved grandmother was interred there in 2000 and I hope to be buried there, too.

The Texas Historical Commission (2015) shared that "Cemeteries are among the most valuable of historic resources. They are reminders of various settlement patterns, such as villages, rural communities, urban centers, and ghost towns. Cemeteries can reveal information about historic events, religions, lifestyles, and genealogy. Names on gravemarkers serve as a directory of early residents and reflect the ethnic diversity and unique population of an area. Cultural influence in gravemarker design, cemetery decoration, and landscaping contribute to the complete narrative of Texas history.

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Established in large part for the benefit of the living, cemeteries perpetuate the memories of the deceased, giving a place character and definition" (p. 1).

What is the narrative tied to the Pin Oak Cemetery space? What are the layers behind those names? "The burial ground, which extends along Pin Oak Creek, has served the rural Pin Oak settlement, as well as the surrounding Gause, Hanover, Liberty, [Cameron, Rockdale, and Hearne] communities. Most of the area settlers, the earliest of whom were here by the 1850s, took advantage of the area's fertile soil and engaged in agriculture. Many of the early Pin Oak settlers were related, with a number coming from Tennessee, Kentucky, Georgia, and Morgan and Marshall counties in Alabama. The settlers established a school prior to the Civil War which served Pin Oak until it consolidated with the Milano Independent School District in 1949" (Pin Oak Cemetery Historical Marker, 2010).

What you don't see and feel when hearing this narrative is the towering old trees whipping in the wind, the vibrant wildflowers blooming nearby, and peace and serenity as you sit in the presence of those that poured their hearts and souls into this land. When I close my eyes on a dew-kissed morn, I feel a slight breeze running through the air and can hear my ancestor's gently whisper their sweet memories in my ear.

The less glamorous aspect of these multi-million dollar projects and what is not shared publically, is how reservoir projects force communities to dig up their ancestors and move them with complete disregard to the community's culture, disrespecting the rights of our citizens – "the pursuit of happiness", and costing tax payers 100s of thousands of dollars to make this happen.

These names are not just numbers that you can strikethrough, dismiss, or dig-up their remains.

These names represent - Real people...
These names represent - Lives lost to serve our country...
These names represent - Agriculture...
These names represent - Texas History...
These names represent – Rich culture and historical significance...
AND...
These names WILL NOT be ignored!

References:

Pin Oak Cemetery Historical Marker. (2010). Pin Oak Cemetery. Texas Historical Commission.

Texas Historical Commission. (2015). Historic cemeteries. Retrieved from http://www.thc.state.tx.us/preserve/projects-and-programs/cemetery-preservation.

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Roster of Families Represented by Speaker:

Eugene Baumann
Elaine Shafer Baumann
Melissa Baumann Shehane
Michael E. Shehane
William E. Shehane
Lillian F. Shehane
Kimberly Baumann Hahn
Chad Hahn
Macey Hahn
Braden Hahn
Kellan Hahn

Watson Hubert Shafer
Opal Shafer
Frank Shafer
Phillip Shafer
William Shafer
Jonathan Shafer
Deborah Shafer Russell
Jerrod Russell
Graham Russell
Sean Russell

Marvin Young
Regina Young
Lisa Seaton
James Seaton
Ashlyn Seaton
Emma Seaton
Trey Young
Jennifer Young
Jordan Young
Kobe Young
Jeff Young
Renae Young
Jaden Young

Judy (Young) Kopriva
Jimmie Kopriva
Amy Harris
KC Harris
Kenley Harris
Brian Kopriva
Shelly Kopriva
Claire Kopriva
Kate Kopriva
Paige Kopriva
Melissa Vaculin
Jeremy Vaculin
Jazmin Vaculin
Mason Vaculin

Mike Young
Barbara Young
Micahel Young
Lanie Young
Tatum Young
Javin Young
Darla Tamez
Greg Tamez
Caydence Tamez
Camryn Tamez
Chris Scarlett
Megan Scarlett
Derek Young

Harold Shafer
Susan Shafer
Clay Shafer
Allison Riherd
John Riherd
Reece Riherd
Parker Riherd
Kyle Shafer
Sheryl Shafer

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22 Hills Homeowner's Association

Author: Sheryl Hall

Brazos G Public Hearing: June 23, 2015

Ladies and Gentlemen,

Thank you for allowing me the opportunity to speak to you today. My name is Sheryl Hall and I am representing the landowners of 22 Hills in Gause, Texas.

22 Hills is a rural, deed-restricted subdivision consisting of approximately 1700 acres of land. There are 32 parcels of land with 25 owners – some owning multiple parcels. There are presently 17 homes and 32 people living in 22 Hills.

New construction currently underway or planned to begin soon include a 2500 sf home, 2400 sf home, 800 sf addition to an existing home, and a 6000 sf barn. Construction on an additional new home is planned within the next 1-2 years. That would bring the total number of homes in 22 Hills to 20.

Many of us have spent our life savings to purchase land and build homes to fulfill lifelong dreams of retiring and living the rest of our lives at 22 Hills. We have seen the values of our properties increase dramatically over the years we've been here due to the quality of construction and improvements to the properties.

We came to 22 Hills for many reasons, and I will try to list just a few of them. Some of the reasons is the fact that it is has deed restrictions and paved road frontage, which are not often found in rural areas. We also love the quiet and solitude we experience on a daily basis. Many of us came from Houston, Dallas, and other cities where that is certainly not the case. The scenic view and beauty of nature are not available anywhere else in this region. We all love watching the abundance of wildlife such as deer, bobcats, foxes, roadrunners, rabbits, and many species of birds. We have easy access to Cameron, Rockdale, Hearne, and Bryan/College Station. The ability to give our heirs real property in a secluded area is also important to us.

Based on the maps that we've had access to, 10 of the landowners' properties will be impacted by rising waters from the lake itself. 4 will be significantly affected, with water covering their land. The other 15 landowners could be impacted if their properties are selected for displaced wildlife.

So my question to you is this: Why do you want to build a reservoir here? Local residents will lose their land, taxes will rise for landowners who remain, and our natural beauty will be lost.

If the lake is for the benefit of another county, why not pipe the water there and let them build the lake in their own area? You will have to pipe the water to them anyway.
Why do you want to destroy our property when the residents of Milam County will in no way benefit from it?

Thank you for your consideration in this matter.

Real Estate

Author: Dave Cunningham
Brazos G Public Hearing: June 23, 2015

I am Dave Cunningham. I'm a resident of the Gause area and a local real estate broker for this area for over 30 years.

I have been involved in property transactions on several thousand acres that are included in the Little River off Channel Reservoir proposal. I have studied the geology, topography, and the history, both before and after the Anglo settlements. This is a special area, some of the first real elevation and topography changes coming from the coastal plains are in our area. The abundance of wildlife and post oak region flora and fauna create a real diamond in the heart of Texas.

It has been so very rewarding to help so many of the families represented here today to realize their reams to own and raise families, or retire on a little piece of Texas. They have invested their time and their financial futures in this land and in this community that are now being threatened. They have hired fence builders, dozer operators, and road and building contractors, spent countless dollars at local hardware stores and tractor dealers and many other merchants in their quest to improve and maintain their part of the Texas dream. Not to mention the thousands of dollars brought into our county and schools, through property taxes, because of their improvements to the land. These landowners have a tremendous impact on the daily economy of this area.

The proposal of the LROCR has effectively pressed the "hold" button on the lives of these families. If this proposal is flawed then time is of the essence. The land owners and their neighbors are not able to effectively market their property, should they become faced with a medical or financial emergency and need to sell. They are reluctant to continue spending money in the local economy, as it pertains to improvements and continuing with future plans for their property investment. These families all have a representable portion of their net worth invested in these properties. The legacy and family heritages represented here cannot be measured in monetary worth. There is no value to be placed on that.

For the families left with land in the area, in the event this is passed, there is no upside. No positive impacts. If they still have access at all, as a non-recreational, non-constant level lake, it leaves those joining properties with little hope for market value increases, or increased tourism or revenue for the community.

Mark Twain said "Buy land, they're not making it any more." I have often been heard saying throughout my real estate career "Romance sells "as in that property has romance. These properties represent the essence of the beauty and "romance" that Milam County has to offer, and they aren't making any more of it!!Cedar Hill doesn't need to be Cedar Hill Island and 22 Hills doesn't need to be 22 sometimes islands.

With these families sitting on "HOLD", I respectfully ask that you make a prompt ruling in favor of these families and our community and their financial futures, and put a stop to this plan NOW. Please preserve and protect our families, our communities, our county and our economy! Thank you for the time you give to the Brazos g board and being here today.

Native American Artifact Preservation

Author: Kimberly Baumann Hahn

Brazos G Public Hearing: June 23, 2015

My father was a Texas history teacher early in his career and my parents have a combined total of ninety-one years in the education profession dedicating their lives to educating thousands of youth in our great state. One thing that my parents have instilled in me over the years is a love of our property and Texas history and an appreciation for the Native Americans who lived here. Most all of their property will be flooded along with their home.

Milam County's rich history starts significantly before the early settlers of the 1800s. It started with the Indian tribes that called this area home and lived out their lives here. Milam County has supported human habitation for at least 10,000 years. One of the early tribes in the region was the Tonkawas. They were a nomadic buffalo hunting people who lived in scattered villages of teepees and arbors. Some of my best childhood and adult memories have been sifting for arrowheads with my family and our dear friend, Calvin Whitely, on our property. We have been so excited over the years to find innumerable arrowheads, mutates (which are used to grind seeds and other foods), hand axes, blades, midden (which is burnt rock), scrapers, pottery sherds and chert. Our property was obviously heavily inhabited by Native Americans at one time, as was the property of other landowners who have found their own share of Indian artifacts and treasures.

According to experts this area was a campground for Native Americans, especially the Tonkawa. There were at least two or three Rancheria Grande sites in Milam County. A Rancheria Grande is an association of several large American Indian villages where multiple tribes settled together. The Tonkawas were known to be one of those tribes. One of those sites is thought to be identified, but the other two are yet to be clearly established. A local expert has questioned as to whether an area overlooking our creek is an Indian mount. We are in the process of having that authenticated.

So, we ask that you please take into consideration this very important part of our state and local history and the Native Americans who first inhabited our county as you consider whether or not to go forth with the Little River Off-Channel Reservoir. Please don't destroy our chance to further explore and learn about Native Americans in our area.

Historical and Cultural Impact

Author: Melissa (Baumann) Shehane, Ph.D.
Brazos G August meeting: August 5, 2015

Good Morning. My name is Dr. Melissa Baumann Shehane and I am from Brazos County. I grew up in Milam County and I am representing the Baumann, Shafer, Shehane, Hahn, Russell, Young, and Kopriva Families today. Together we ask that you remove the Little River Off-Channel Reservoir from the plan. I would like to present facts tied to the historical and cultural impacts the Reservoir will have on Milam County and the state of Texas.

If the Little River Off-Channel Reservoir were to come to fruition, engineers building the site would be allowed to destroy the Pin Oak Cemetery, which is registered as a historic cemetery in the state of Texas, a portion of the El Camino Real national Historic Trail, and Native American artifacts. I am going to provide a brief overview of each of these historic and cultural resources.

Pin Oak Cemetery

According to the Texas Historical Commission, there are over 50,000 cemeteries in Texas (Texas Historical Commission, 2015). However, only 1,706 are designated as Historic Cemeteries – which means the Pin Oak Cemetery is listed among 3% of historic cemeteries within approximately 171 million acres in the State of Texas. There are about 130+ graves, including 9 graves of Civil War soldiers, one of which is my great-great grandfather, one soldier from the Korean War, and many more dating back to the Civil War era. On a personal note, my beloved grandmother was interred there in 2000 and I hope to be buried there, too.

The Texas Historical Commission (2015) shared that "Cemeteries are among the most valuable of historic resources. They are reminders of various settlement patterns, such as villages, rural communities, urban centers, and ghost towns. Names on gravemarkers serve as a directory of early residents and reflect the ethnic diversity and unique population of an area. Cultural influence in gravemarker design, cemetery decoration, and landscaping contribute to the complete narrative of Texas history." (p. 1).

"The burial ground, which extends along Pin Oak Creek, has served the rural Pin Oak settlement, as well as the surrounding Gause, Hanover, Liberty, [Cameron, Rockdale, and Hearne] communities. Most of the area settlers, the earliest of whom were here by the 1850s, took advantage of the area's fertile soil and engaged in agriculture. The settlers established a school prior to the Civil War which served Pin Oak until it consolidated with the Milano ISD in 1949" (Pin Oak Cemetery Historical Marker, 2010).

El Camino Real National Historic Trail

The El Camino Real is one of nineteen national historic trails in the United States. Each of the nineteen trails was designated because of its high historical significance. National Historic Trails are designated only by an act of Congress. The El Camino Real de los Tejas spans 2580 miles across 40 counties and 2 parishes and 2 states and was

established by U. S. Congress in 2004. The Trail through Milam County features several sites designated as significant by the National Park Service. These include three mission sites near the San Gabriel River, Sugarloaf Mountain and Apache Pass River Crossing. Milam County is the first county to have completed road signs marking the Trail. The area to be affected by the proposed reservoir is critical to the history of the Trail, Sugarloaf Mountain is likely the site of a Rancheria Grande, a fact which could not be proved if the area is under water. Should any part of the Trail be placed under water, evidence of its historical significance would be gone forever. It is the major purpose of El Camino Real de los Tejas National Historic Association to preserve and protect the historical integrity of the Trail. El Camino Reales are royal roads which led to the founding of Texas. Stephen Gonzales, Executive Director of El Camino Real de los Tejas Historic Trail Association opposes the reservoir due to the historical devastation it would create. Landowners and community members are working closely with the Texas Historical Commission to preserve our historical treasures that make Milam County and our great state unique.

Native American Artifacts

Finally, landowners throughout the 4,300+ acres have found Native American artifacts scattered throughout their properties. Milam County's rich history starts significantly before the early settlers of the 1800s. It started with the Native American tribes that called this area home and lived out their lives here. One of the early tribes here was the Tonkawas. Specifically, arrowheads, metates, hand axes, blades, midden, scrapers, pottery sherds, and chert have been identified in the area.

History and culture should not be ignored. Citizens of Milam County matter. We contribute to the unique narrative that shapes Texas history. This reservoir does not belong in Milam County. We ask that you find alternative means for long-term water planning that do not destroy our historical and cultural livelihood.

References:

Pin Oak Cemetery Historical Marker. (2010). Pin Oak Cemetery. Texas Historical Commission.

Texas Historical Commission. (2015). Historic cemeteries. Retrieved from http://www.thc.state.tx.us/preserve/projects-and-programs/cemetery-preservation.

StateMaster.com. (2015). Geography statistics. Retrieved from http://www.statemaster.com/graph/geo_lan_acr_tot-geography-land-acreage-total

Roster of Families Represented by Speaker:

Eugene Baumann
Elaine Shafer Baumann
Melissa Baumann Shehane
Michael E. Shehane
William E. Shehane
Lillian F. Shehane
Kimberly Baumann Hahn
Chad Hahn
Macey Hahn
Braden Hahn
Kellan Hahn

Watson Hubert Shafer
Opal Shafer
Frank Shafer
Phillip Shafer
William Shafer
Jonathan Shafer
Deborah Shafer Russell
Jerrod Russell
Graham Russell
Sean Russell

Marvin Young
Regina Young
Lisa Seaton
James Seaton
Ashlyn Seaton
Emma Seaton
Trey Young
Jennifer Young
Jordan Young
Kobe Young
Jeff Young
Renae Young
Jaden Young

Judy (Young) Kopriva
Jimmie Kopriva
Amy Harris
KC Harris
Kenley Harris
Brian Kopriva
Shelly Kopriva
Claire Kopriva
Kate Kopriva
Paige Kopriva
Melissa Vaculin
Jeremy Vaculin
Jazmin Vaculin
Mason Vaculin

Mike Young
Barbara Young
Micahel Young
Lanie Young
Tatum Young
Javin Young
Darla Tamez
Greg Tamez
Caydence Tamez
Camryn Tamez
Chris Scarlett
Megan Scarlett
Derek Young

Harold Shafer
Susan Shafer
Clay Shafer
Allison Riherd
John Riherd
Reece Riherd
Parker Riherd
Kyle Shafer
Sheryl Shafer

STOP

Little River Off-Channel Reservoir

MEETING

When: June 11, 2015 at 6:30 pm

Where: Gause Baptist Church Family Life Center

Who Should Attend: All interested community members

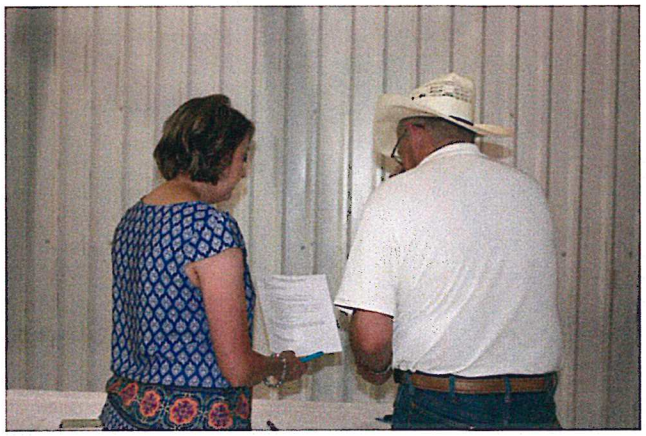
What: The Brazos G Regional Water Planning Group is proposing to flood 4,350+ acres near Gause.

Why: Help save our precious environmental resources, historical landmarks, & land before they are taken!

Questions: stop.little.river.ocr@gmail.com or Facebook

GET INFORMED.GET INVOLVED.

Community Organizing
June 11, 2015
Gause Baptist Family Life Center



Stop Little River Off-Channel Reservoir
Stakeholder Meeting
June 11, 2015

Welcome

- Why we are here, *Eugene Baumann & Judge Barkemeyer*
- Who is Brazos G Regional Water Planning Group, *Melissa (Baumann) Shehane*
- Overview of Little River Off-Channel Reservoir Proposal, *Mike Conner*

Things in our Favor to Save our Land, *Elaine Baumann*

What plans are currently in place, *Melissa (Baumann) Shehane*

- Contact Information, *Elaine Baumann*
  - Collected landowner & supporter contact information for listserv
- Landowner Survey, *Judy Marks & Melissa (Baumann) Shehane*
  - Sent to landowners with deadline of June 12
- Resolution, *Wayne Fisher & Eugene Baumann*
  - Working with Gause ISD, Milano ISD, Milano City Council, & Milam County Commissioners Court to sign Resolutions opposing the Little River OCR
- Local Media, *Elaine Baumann*
  - Newspaper announcements
  - Radio stations announcements
- Social Media, *Kim (Baumann) Hahn, Deborah (Shafer) Russell, & Amanda Dent*
  - Facebook Page
- Petitions, *Mike Kornegay & Melvin Wall*

Overview of Public Hearing June 23, *Kimberly (Baumann) Hahn*

- Meeting will be recorded and will be public record
- Need minimum 3-5 well-rehearsed speakers to voice concerns – Limit of 3-5 minutes
  - Wayne Fisher
  - Mike Conner
  - Melissa (Baumann) Shehane
- Anyone can speak or ask questions
  - Please know that Brazos G will respond at a later date

Written Comments about Initially Prepared Plan due August 24

- Compile survey data, photos, documents, letters, and petitions to Brazos G

Ideas to discuss

- Organization structure
- Questions & Comments

Take Action

LANDOWNER CHECKLIST

- Submit materials to Eugene & Elaine Baumann or email to stop.little.river.ocr@gmail.com by June 12
  - Complete Survey
  - Submit Copies of 1-10 Photos/Documents with labels
  - Write a letter to Brazos G (samples/templates available)
- Send Emails of your letter to the Brazos G Board members

SUPPORTER CHECKLIST (non-impacted landowners)

- Write Letters
  - Submit materials to Eugene & Elaine Baumann or email to stop.little.river.ocr@gmail.com.
    - Email stop.little.river.ocr@gmail.com for a sample/template if interested.
- Join Listserv (Email Group)
  - Join the listserv/email group. Email stop.little.river.ocr@gmail.com if you are interested.

EVERYONE'S CHECKLIST

Attend Public Hearing

- Tuesday, June 23, 2015 at 9:00 am at the Brazos River Authority Office, 4600 Cobbs Drive, Waco, Texas 76710
  - Please bring 10 people with you
  - Directions will be emailed over the listserv

Contact State Representatives

- Senator Charles Schwertner and voice your concern (don't know what to say, we have a script)
  - Send Message at website: http://www.schwertner.senate.state.tx.us/
  - Capitol Phone: (512) 463-0105
  - District Office - Bryan Phone: (979) 776-0222
  - District Office - Georgetown Phone: (512) 863-8456

- Representative Marsha Farney and voice your concern
  - Send Message at website: http://www.house.state.tx.us/members/member-page/?district=20
  - Capitol Phone: (512) 463-0309
  - District Office - Georgetown Phone: (512) 863-7872

BRAZOS G RWPG NAME / TITLE	VOTING MEMBERS (23): PHYSICAL ADDRESS COUNTY	(updated 05/20/2015) MAILING ADDRESS	TELEPHONE	E-MAIL ADDRESS	INTEREST
Wayne Wilson, Self-employed; ranching **CHAIR**	Wilson Cattle Company 7026 East OSR Bryan, Texas 77808 **(BRAZOS COUNTY)**	Wilson Cattle Company 7026 East OSR Bryan, Texas 77808	Cell: (979) 218-1800	wlwilson@tconline.net	Agriculture√
Gail Peek, Of Counsel **VICE-CHAIR**	Beard Kultgen Brophy Bostwick & Dickson 220 South 4th Street Waco, TX 76701 **(BELL COUNTY)**	P.O. Box 21117 Waco, TX 76702-1117	Office: (254) 776-5500	peek@thetexasfirm.com	Small Business√
Phil Ford, General Manager/ CEO **SECRETARY/TREASURER**	Brazos River Authority 4600 Cobbs Drive Waco, TX 76714-7555 **(MCLENNAN COUNTY)**	Brazos River Authority P.O. Box 7555 Waco, TX 76714-7555	Office: (254) 761-3194 Fax: (254) 761-3203	pford@brazos.org	River Authorities
Dale Adams, General Manager	Wes-Tex GCD 100 E. 3rd Street, Ste. 305B Sweetwater, TX 79556 **(NOLAN COUNTY)**	Wes-Tex GCD 100 E. 3rd Street, Ste. 305B Sweetwater, TX 79556	Office: (325) 236-6033 Fax: Same	dale.adams@co.nolan.tx.us	Groundwater Management Area Representative
Charles Beseda, Manager / Operator	Birome WSC Rt. 1 Box 73 Mt. Calm, TX 76673 **(HILL COUNTY)**	Birome WSC Rt. 1 Box 73 Mt. Calm, TX 76673	Office: (254) 749-7718 Fax: (254) 826-3368	waterman.cb@gmail.com	Water Utilities
Jim Briggs General Manager Utilities	City of Georgetown PO Box 409 Georgetown, Texas 78627-0409 **(WILLIAMSON COUNTY)**	City of Georgetown PO Box 409 Georgetown, Texas 78627-0409	Office (512) 930-3889 Cell (512) 630-1588	Jim.Briggs@georgetown.org	Municipalities√
Tim Brown, County Commissioner	Bell County Courthouse Central and Main Belton, Texas 76513 **(BELL COUNTY)**	Bell County Courthouse P.O. Box 768 Belton, TX 76513	Office: (254) 933-5102 Cell: (254) 217-2424	Tim.brown@co.bell.tx.us	Counties
Joe Cooper, General Manager	Middle Trinity Groundwater Conservation District 930 N. Wolfe Nursery Rd Stephenville, TX 76401 **(ERATH COUNTY)**	Middle Trinity Groundwater Conservation District 930 N. Wolfe Nursery Rd Stephenville, TX 76401	Office: (254) 965-6705	mtgcd1@centurylink.net	Water Districts√

Alva Cox, Assistant Director of Public Works	City of Granbury P.O. Box 969 Granbury, TX 76048 **(HOOD COUNTY)**	City of Granbury P.O. Box 969 Granbury, TX 76048	Office: (817) 573-7030 Fax: (817) 573-5591	cox@granbury.org	Municipalities
Travis Floyd, County Judge	Knox County 100 W. Cedar Benjamin, TX 79505 **(KNOX COUNTY)**	Knox County P.O. Box 77 Benjamin, TX 79505	Office: (940) 459-2191 Cell: (940 256-3422	tfloyd@srcaccess.net	Counties
VACANT					Industries
Zach Holland, General Manager	Bluebonnet GCD 303 E. Washington Ave, Ste. D Navasota, TX 77868 **(GRIMES COUNTY)**	P.O. Box 269 Navasota, TX 77868	Office: (936) 825-7303	zholland@bluebonnetgroundwater.org	Groundwater Management Area Representative√
Kelly Kinard, Owner/Principal	Design Growth Investments, Inc. P.O. Box 6317 Abilene, TX 79608 **(TAYLOR COUNTY)**	Design Growth Investments, Inc. P.O. Box 6317 Abilene, TX 79608	Office: (325) 695-1399 Cell: (325) 665-5286	kgkinard@abilene.com	Water Districts√
Mike McGuire, General Manager	Rolling Plains GCD 135 N. Munday Ave. Munday, Texas 76371 **(KNOX/HASKELL/BAYLOR COUNTIES)**	P.O. Box 717 Munday, Texas 76371	Office: (940) 422-1095 Cell: (940) 864-4646	mmcguire@rpgcd.org	Groundwater Management Area Representative; & Region B Liaison√
Gary Newman, President	Trio Development, LLC 7811 Ranch Road 2338 Georgetown, TX 78633 **(WILLIAMSON COUNTY)**	Trio Development, LLC 7811 Ranch Road 2338 Georgetown, TX 78633	Office and cell: (512)-751-3337	gnewman@trio-dev.com	Public√
Tommy O. O'Brien, Executive Director of Water Utilities	City of Abilene 555 Walnut Street Abilene, TX 79601 **(TAYLOR COUNTY)**	City of Abilene P.O. Box 60 Abilene, TX 79604-0060	Office: (325) 676-6416 Cell: (325) 676-6416	tommy.obrien@abilenetx.com	Municipalities√
Judy Parker Director, Clearwater Underground Water Conservation District	Clearwater Underground Water Conservation District PO Box 1989 Belton, Texas 76713 **(BELL COUNTY)**	Clearwater Underground Water Conservation District PO Box 1989 Belton, Texas 76713	Office: (254)933 0120	jbp49@icloud.com	Groundwater Management Area Representative√
Gary L. Spicer Water Quality & Solid Waste Manager Luminant Power	Luminant Power 1601 Bryan Street Dallas, Texas 75201 **(HOOD COUNTY)**	Luminant Power 1601 Bryan Street Dallas, Texas 75201	Office: (214) 875-8299 Cell: (214)793-6150	spicer@luminant.com	Electric Utilities√

Dale Spurgin, County Judge	Jones County Courthouse 1200 Commercial Avenue Anson, Texas 79501 **(JONES COUNTY)**	P.O. Box 148 Anson, TX 79501	Office: (325) 823-3741 Cell: (325) 669 2212	dale.spurgin@co.jones.tx.us	Agriculture√
Mike Sutherland, County Judge	Burleson County 100 W. Buck, Suite 306 Caldwell, TX 77836 **(BURLESON COUNTY)**	Burleson County 100 W. Buck, Suite 306 Caldwell, TX 77836	Office: (979) 567-2333 Cell: (979) 218-4458	co_judge@burlesoncounty.org	Counties√
Kevin Wagner Associate Director Texas Water Resources Institute	1500 Research Parkway, Suite 240 College Station, Texas 77843 **(BRAZOS COUNTY)**	2118 TAMU College Station, TX 77843-2118	Office: 979 845 2649 Cell: 979 204 9101	klwagner@ag.tamu.edu	Environmental√
Jerry K. "Kenny" Weldon Mayor City of Stephenville	City of Stephenville 298 West Washington Street Stephenville, Texas 76401 **(ERATH COUNTY)**	City of Stephenville 298 West Washington Street Stephenville, Texas 76401	Office (254)918-1212 Cell: (254) 459-0867	Jkweldon2@gmail.com	Municipalities√
Gary Westbrook General Manager Post Oak Savannah Groundwater Conservation District	301 East Avenue C Milano, Texas 76556 **(MILAM COUNTY)**	P. O. Box 92 Milano Texas 76556	Office (512) 455 9900 Cell: 979-571-5761	gwestbrook@posgcd.org	Groundwater Management Area Representative√

Stop Little River Off-Channel Reservoir
Sign-in Sheet

Name	County
Jeff Carroll	Milam
NORA ANZALDUA	MILAM
KIRBY FLEMING	MILAM
DON WYATT	MILAM
FRANK WALL	MILAM
IRMA WALL	MILAM
LINDA Walters	milam
Lee Walters	Milam
BARBARA PASCHALL	MILAM
HOLLIS & MARY MATTHEWS	MILAM
[illegible]	279379 Milam
[illegible]	Milam
[illegible]	milam
[illegible]	Milam
[illegible]	MILAM
PETER LAWSON	MILAM
Mary Waldron	Milam
Keith McGee	Milam
Billy Stein	Milam
Virgil Wall	Milam
Kayla Wall	Milam

Stop Little River Off-Channel Reservoir
Sign-in Sheet

Name	County
Jay Davis (KRXT, Rockdale)	Milam
Todd Heatly	Milam
Cheri Heatly	Milam
Blake Nobbs	Milam
Scott Kornegay	Milam
Michael Wall	Milam
Madeline Morse	Milam
Mark A. Morse	Milam
Lucile Estell	Milam
Joy Graham	Milam
Darla Schneider	Milam
Amanda Dent	Milam
Michael Shehane	Brazos
Chad Hahn	DeWitt
[illegible]	Milam
Elaine Bauman	Milam
Eugene Bauman	Milam
Judy Marks	Milam
Curtis Wall	Milam
Melina Shehane	Brazos

Stop Little River Off-Channel Reservoir
Sign-in Sheet

Name	County
Jesse Strauss	MILAM
B. W. Lindsey	Milam
Rhonda Foutz NRCS	
Mike Gilbert Gov Lakeway	Milam
Sally Lazarus	Robertson
Lois Wilkins	Milam
Linda Cornelius	Robertson
Karen Rose	Milam
Don Rose	Milam
Jo Hobbs	Milam
Mike Conner	Milam
Joyce Conner	Milam
Debbie Portnoff	Milam
Jean Scharp	Milam
Kathy Turner	Milam
Gregg Moore	Milam
TERRI MOORE	Milam
Mary Neely	milam
[illegible]	Milam
Kay Weddle	milam
Margie Ribble	milam

Stop Little River Off-Channel Reservoir
Sign-in Sheet

Name	County
Larry Zawadzka	Milam
Pat Kanarr	MiLAM
Virginia Kypp	milam
Cindy Bolch	Milam
Connie Dent	Milam
DAVID KORNEGAY	MILAM / BELL
Deborah Russell	Milam / Harris
Rebecca Holmes	Milam
Miranda Stein	Milam
Ruth Hardy	Milam
Ross & Beverly Cunningham	Milam
Ron & Elayne Day	Milam
Charmaine Murello	Milam
Jeff Hughes	Milam
Arnold Kornegay	Milam
Pam Courtney	Milam
DAN FISCHER	MILAM
CURTIS CHUBB	MILAM
Dennis Owens	Milam
Carol Campbell	Gause
Earl W Campbell	Gause

Stop Little River Off-Channel Reservoir
Sign-in Sheet

Name	County
Heather Wall	Milam
[illegible]	[illegible]
[illegible]	Milam
Henry Willard	Milam
Jan Willard	Milam
Beverly Curry	Milam
V. V. Turner	Milam
Cody Wall	Milam
Kim Hahn	DeWitt

June 11, 2015
Meeting 6/11/15

WELCOME

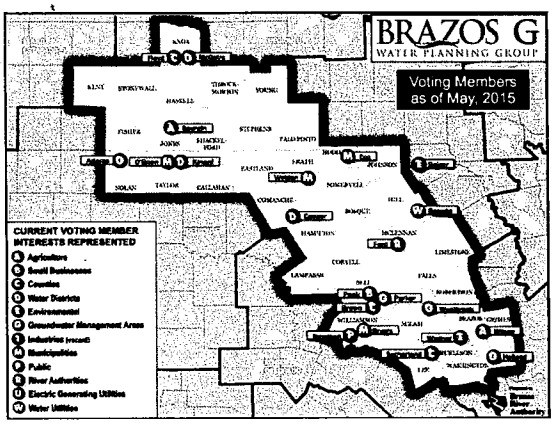
- Judge Barkemeyer, Milam County
- Eugene Baumann, Landowner

STOP LR OCR

WHO IS BRAZOS G?

- Senate Bill 1 – 75th Legislative Session
  - 1 of 16 Regional Planning Groups established by the Texas Water Development Board
  - Working since 1998 develop a comprehensive regional water plan
- Brazos River Authority (BRA) – Political Sub-division
- HDR – Engineering Consulting Firm
- Website: www.brazosgwater.org

STOP LR OCR



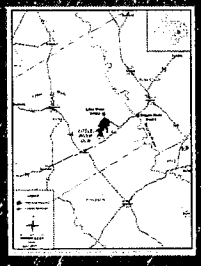
WHO ELSE IS INTERESTED?

- Region H
- Website:
  - www.regionhwater.org

STOP LR OCR

OVERVIEW LR OCR PROPOSAL

- Mike Conner
  - Cedar Hill Ranch



STOP LR OCR

WHAT'S IN OUR FAVOR?

- El Camino Real Trail
- Historic Cemeteries
- Indian artifacts
- Environmental Factors
- Family Land Heritage Recognition

STOP LR OCR

CURRENTLY IN PLACE…

- Contact Information
- Landowner Survey
- Resolution
- Local Media
- Social Media
- Petitions

STOP LR OCR

PUBLIC HEARING: JUNE 23

- Recorded & Public Record
- Sign-In to Speak & have up to 5 minutes
- Coordinating a line-up
  - Wayne Fisher, Mike Conner, Melissa Shehane
- Questions will not be answered during hearing
- Buttons – Pick up at 8:15 near the entrance
- Future meeting opportunities

STOP LR OCR

WRITTEN COMMENTS: AUG. 24

WE NEED YOUR HELP!

- Compiling all materials in a book to send to…
  - Brazos G Water Planning Group
  - State Representatives

STOP LR OCR

TAKE ACTION

- Review Checklists on back of Agenda
- Attend Public Hearing June 23!
- Call your State Representatives
  - Senator Charles Schwertner
  - Representative Marsha Farney
- Got Ideas? Please share with us!

STOP LR OCR

IDEAS TO DISCUSS…

- Organization structure
- Questions & Comments

STOP LR OCR

CLOSING

- Visit Tables
  - Letter Writing / Phone your Representative
  - Petition Sign-up
  - Landowner Survey
  - Photo Session / Testimonial
  - Maps
- Listserv/Email Group Sign-up

STOP LR OCR

STOP

Little River Off-Channel Reservoir

PUBLIC HEARING – PLEASE ATTEND!

When: June 23, 2015 at 9:00 pm

Where: Brazos River Authority Office
4600 Cobbs Drive, Waco, Texas 76710

Who Should Attend: Everyone

What: The Brazos G Regional Water Planning Group is proposing to flood 4,350+ acres near Gause.

Why: We need hundreds of people to come out and show that we will not stand for this! Help save our precious environmental resources, historical landmarks, & land before they are taken!

Questions: stop.little.river.ocr@gmail.com or Facebook

GET INFORMED.GET INVOLVED.

STOP
L
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PUBLIC HEARING
June 23 at 9:00 am
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710
PLEASE SUPPORT MILAM COUNTY! WE NEED YOUR HELP!
3 DAYS & COUNTING...

STOP
L
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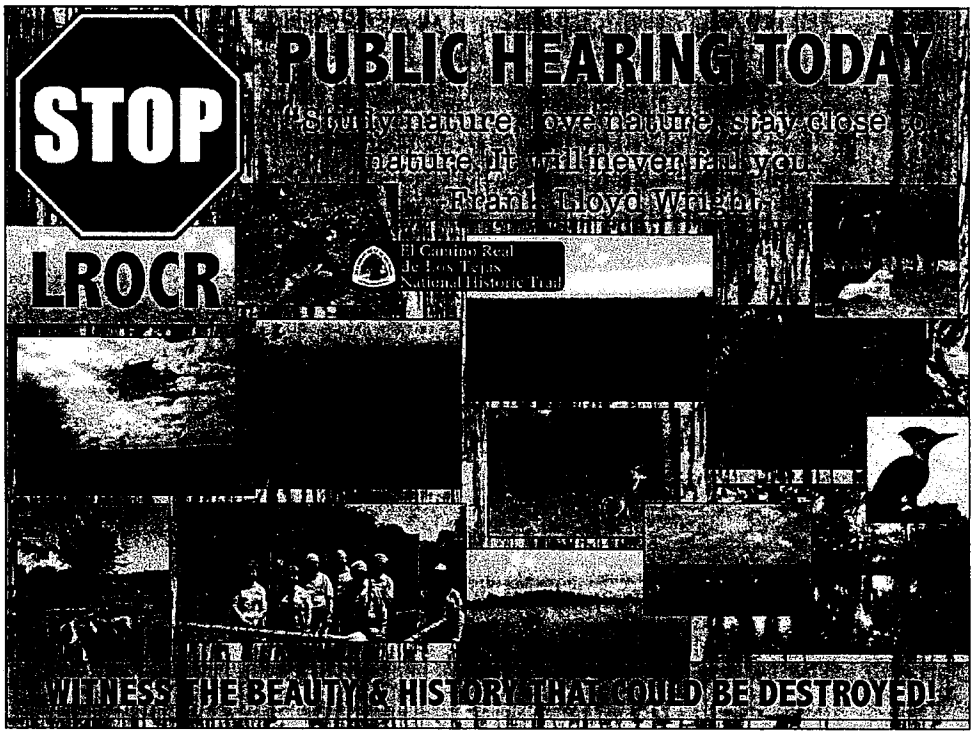
PUBLIC HEARING
June 23 at 9:00 am
"Building grassroots support. It's about identifying the people around you with whom you can create a common passionate cause."
-Tom Peters-
2 DAYS & COUNTING...
BE THERE!

STOP
LROCR
PUBLIC HEARING
June 23 at 9:00 am
Never doubt that a small group
of thoughtful, committed citizens
can change the world. Indeed, it's
the only thing that ever has.
-Margaret Mead
1 DAY & COUNTING...
SHARE YOUR VOICE & SEE YOU THERE


STOP
LROCR
PUBLIC HEARING TODAY
El Camino Real
de Los Tejas
National Historic Trail
WITNESS THE BEAUTY & HISTORY THAT COULD BE DESTROYED!

STOP

Little River Off-Channel Reservoir

BRAZOS G BOARD MEETING ANNOUNCMENT

When: August 5, 2015 at 10:00 am

Where: Brazos River Authority Office
4600 Cobbs Drive, Waco, Texas 76710

What: The Brazos G Regional Water Planning Group is proposing to flood 4,350+ acres near Gause.

Why: We need to continue to show that we will not stand for this! Help save our precious environmental resources, historical landmarks, homes, & land before they are taken!

Questions: stop.little.river.ocr@gmail.com or Facebook

GET INFORMED.GET INVOLVED.

STOP
L
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DEADLINE APPROACHING
AUGUST 15, 2015
Quick Checklist:
✓ Call State Representatives!
✓ Write a letter to Brazos G & Region H
NOTE: See previous posts for details, Send copies of materials to stop.little.river.ocr@gmail.com so we can compile all materials!
PLEASE SUPPORT MILAM COUNTY!
5 DAYS & COUNTING...

STOP
L
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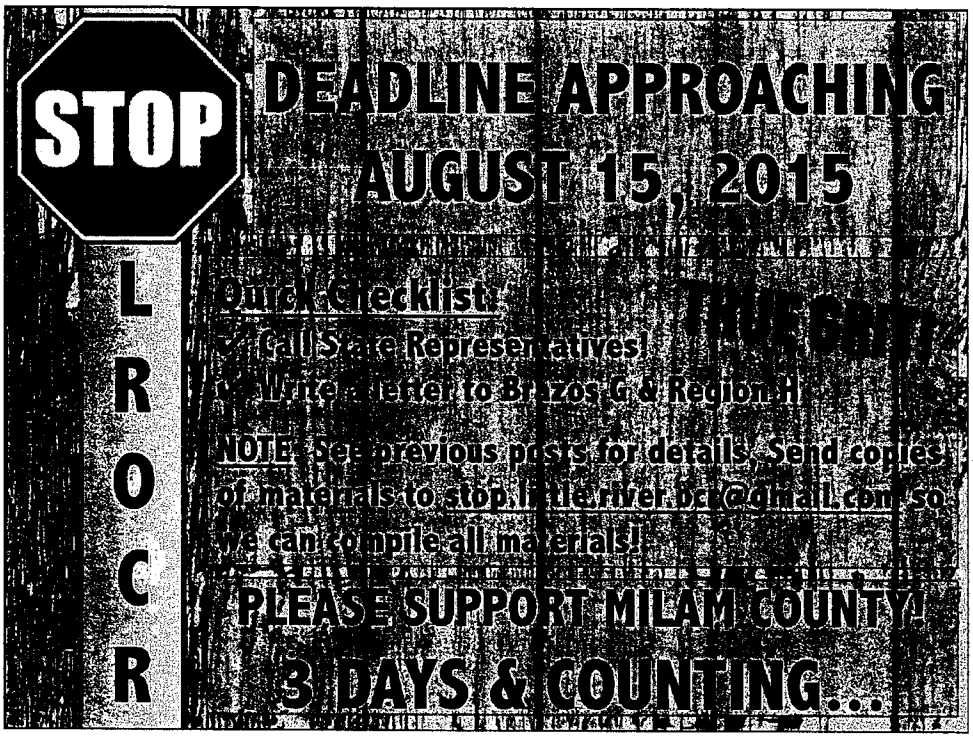
DEADLINE APPROACHING
AUGUST 15, 2015
Quick Checklist:
DON'T FORGET!
✓ Call State Representatives!
✓ Write a letter to Brazos G & Region H
NOTE: See previous posts for details, Send copies of materials to stop.little.river.ocr@gmail.com so we can compile all materials!
PLEASE SUPPORT MILAM COUNTY!
4 DAYS & COUNTING...


STOP
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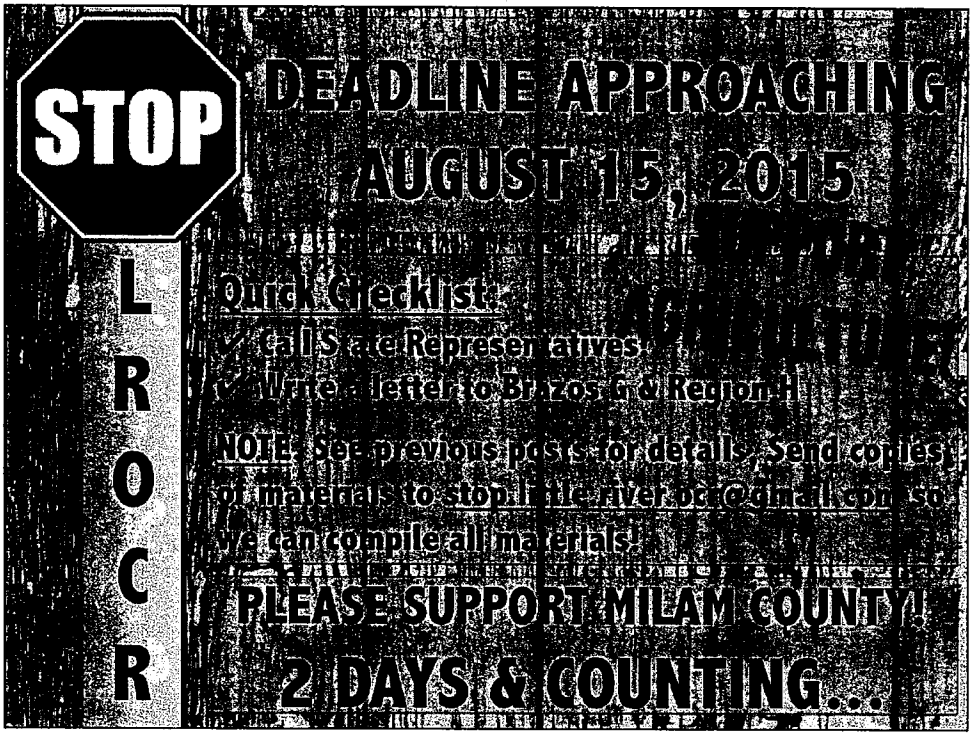
DEADLINE APPROACHING
AUGUST 15, 2015
Quick Checklist:
Call State Representatives!
Write a letter to Brazos G & Region H
NOTE: See previous posts for details. Send copies
of materials to stop.little.river.lrocr@gmail.com so
we can compile all materials!
PLEASE SUPPORT MILAM COUNTY!
3 DAYS & COUNTING...


STOP
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DEADLINE APPROACHING
AUGUST 15, 2015
Quick Checklist:
Call State Representatives!
Write a letter to Brazos G & Region H
NOTE: See previous posts for details. Send copies
of materials to stop.little.river.lrocr@gmail.com so
we can compile all materials!
PLEASE SUPPORT MILAM COUNTY!
2 DAYS & COUNTING...

STOP
L
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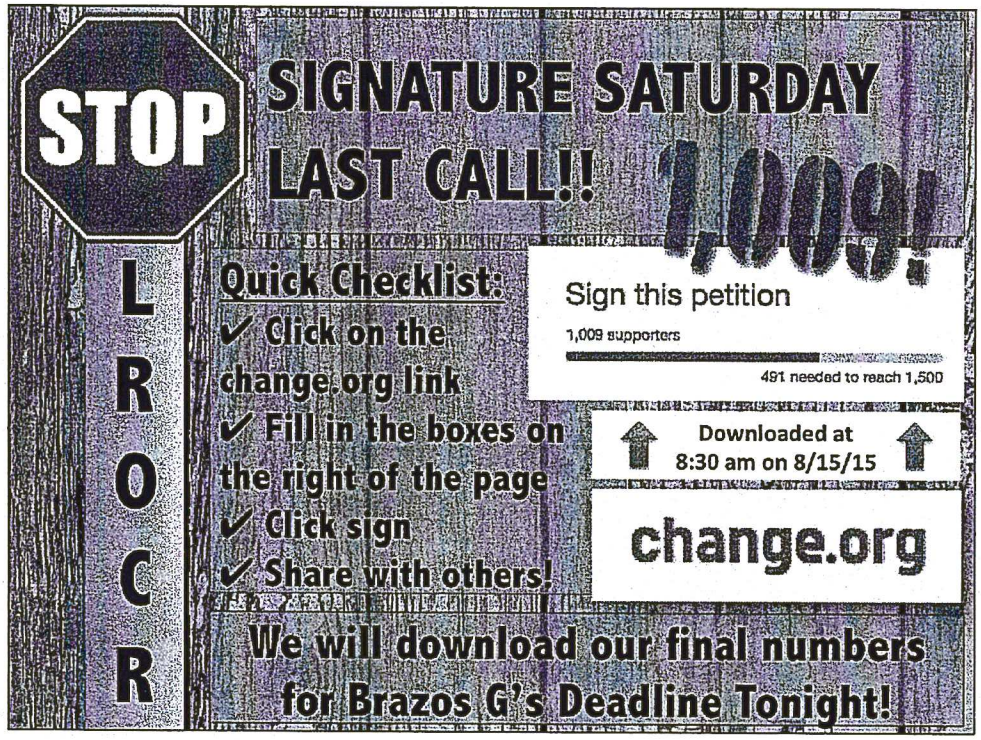
DEADLINE APPROACHING
AUGUST 15, 2015
STOP
& HELP NOW!
Quick Checklist:
✓ Call State Representatives!
✓ Write a letter to Brazos G & Region H
NOTE: See previous posts for details, Send copies of materials to stop.little.river.ocr@gmail.com so we can compile all materials!
PLEASE SUPPORT MILAM COUNTY!
LAST DAY...


STOP
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SIGNATURE SATURDAY
LAST CALL!!
1,009!
Quick Checklist:
✓ Click on the change.org link
✓ Fill in the boxes on the right of the page
✓ Click sign
✓ Share with others!
Sign this petition
1,009 supporters
491 needed to reach 1,500
Downloaded at 8:30 am on 8/15/15
change.org
We will download our final numbers for Brazos G's Deadline Tonight!

NEWS ARTICLES

Overview:

This section includes copies of articles from local newspapers. Newspapers listed are:

- Cameron Herald
- Rockdale Reporter
- Robertson County News
- The Eagle
- The Temple Daily Telegram

Additionally, local news and radio stations have been following our cause. Please see the attached DVD to watch the news footage.

HURSDAY, APRIL 16, 2015 • VOL 155 NO 11

e Cameron Herald

Little River off-channel reservoir proposed near Gause

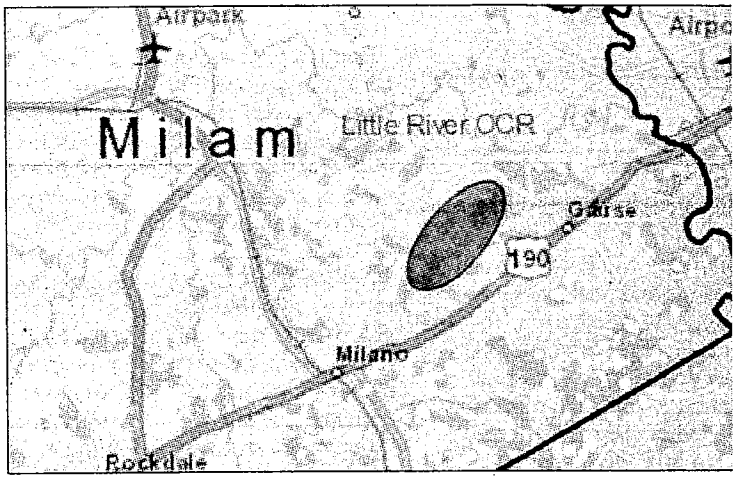
■ By CURTIS CHUBB
Special to the Herald

Milam County may be supplying surface water to Williamson County in the near future. At least, that is what the Brazos G Regional Water Planning Group is including in their draft 2016 regional water plan due May 1.

Brazos G's planning area encompasses 37 counties within the Brazos River Basin between Kent and Washington counties – that includes Milam and Williamson Counties. Their primary mission is "to ensure that all of our communities have adequate supplies of water during times of drought."

When they compared water supplies with water demand, Brazos G determined that Williamson County will need an additional 129,000 acre-feet/year of water supplies by 2070 (acre-foot = 326,000 gallons). In light of this large shortfall in water supply, Brazos G personnel met with county and water officials in Williamson County.

One of the ideas originating from that January meeting was for Williamson County to access water from an off-channel reservoir filled with water pumped from the Brazos River during high flows.



The red oval marks the approximate location of the 4,300-acre Little River Off-Channel Reservoir.

The Brazos River Authority defines an off-channel reservoir as "a water supply lake built next to or near a river."

Brazos G's plan (called a water management strategy) is to construct the off-channel reservoir northwest of Gause near the Little River; it would be named the Little River Off-Channel Reservoir (see map). The reservoir would cover 4,300 acres of the Beaver Creek Watershed and have a storage capacity of 155,812 acre-feet.

Brazos River water would be transported to the reservoir through eight miles of 144-inch diameter pipe using a 25,000-hp pump station. The estimated cost for constructing the reservoir and transpo system is $248 million.

Brazos G predicts that the reservoir would have a firm yield of 56,000 acre-feet/year (firm yield means the amount available durin the drought of record).

For Williamson County to acces the Little River Off-Channel Rese voir, they would have to construc 43 miles of 48-inch pipeline from the reservoir to a water treatment

See Page

COUNTY
FROM PAGE 1

David Greene requested approval of an interlocal cooperation agreement with Robertson County so that Milam County inmates can be housed at the Robertson County jail. Milam County has a similar agreement with Lee County. Precinct 4 Commissioner Jeff Muegge's motion to approve the agreement received unanimous support.

In other business, the commissioners court appointed a new director of the Post Oak Savannah Groundwater Conservation District. The appointment process started last month after long-time director Dwayne Jekel announced his intention to resign. Milam County rural water supply corporations nominated Robert Jekel, Erik Westbrook, and Bob Wilson who were interviewed by the commissioners court on April 7.

At Monday's meeting, Bob Wilson was selected as the new director representing the interests of rural water supply corporations. Wilson received three votes (Barkemeyer, Precinct 3 Commissioner John Fisher, and Muegge). Robert Jekel received two votes (Watkins and Precinct 2 Commissioner Donald Shuffield).

Wilson has served on the Board of Directors of the Southwest Milam Water Supply Corporation for nine years and has served as that board's president for the last four years. When asked for a comment about his appointment, Wilson said, "It is a privilege to be able to serve on the Post Oak board. I feel that my background and experience give me the ability to make the decisions going forward."

COUNTY

FROM PAGE 1

The National Historic Trail covers the United States section of the El Camino Real de Los Tejas.

Graham and Lucile Estell were the primary Milam County volunteers who made the national recognition of the Trail in Milam County a reality. Both now serve as members of the 15-person board of the El Camino Real de los Tejas National Historic Trail Association.

Graham presented a map illustrating where the El Camino Real de los National Historic Trail runs through Milam County – and it appears to run through the area that would be inundated if the Little River Off-Channel Reservoir is constructed.

This presents a significant challenge to the construction of the reservoir since "Cultural Resources" is one of the "impact categories" evaluated when a reservoir is being considered.

For example, the Brazos G Regional Water Planning Group has included an off-channel reservoir near College Station in its draft 2016 plan. This reservoir, named Peach Creek Off-Channel Reservoir, has already been evaluated for its impact on cultural resources.

In the draft plan's discussion of Peach Creek's cultural resources, the following is emphasized: "A review of available GIS datasets provided by the Texas Historical Commission (THC) for the 2011 Regional Water Plan revealed that there are no National Register Properties, National Register Districts, cemeteries, or historical markers located within or near the project area... Cultural resources that occur on public lands or within the Area of Potential Effect of publicly funded or permitted projects are governed by the Texas Antiquities Code (Title 9, Chapter 191, Texas Natural Resource Code of 1977), the National Historic Preservation Act (PL96-515), and the Archeological and Historic Preservation Act (PL93-291)."

Another report was presented by Maribel Gonzales of the Milam County Health Department. Gonzales presented an overview of the Texas Immunization Registry (known as ImmTrac) which is a no-cost service offered by the Texas Department of State Health Services. The state considers ImmTrac as an important step to increasing vaccine coverage in the state.

Gonzales emphasized that ImmTrac offers a secure and confidential registry available to all Texans. Texas law requires written consent to participate in the program which can be accessed only by those authorized by law such as doctors and nurses.

The Health Department contacts parents of children aged 19 – 36 months to inform them of the advantages of participating in ImmTrac. When the children enroll in school, school nurses assume the responsibility of working with the ImmTrac program.

Milam County Judge David Barkemeyer's column this week is focused on ImmTrac.

The Rockdale and Messenger

Vol. 143, No. 26 | Thursday, April 30, 2015

Reporter

ROCKDALE REPORTER.COM

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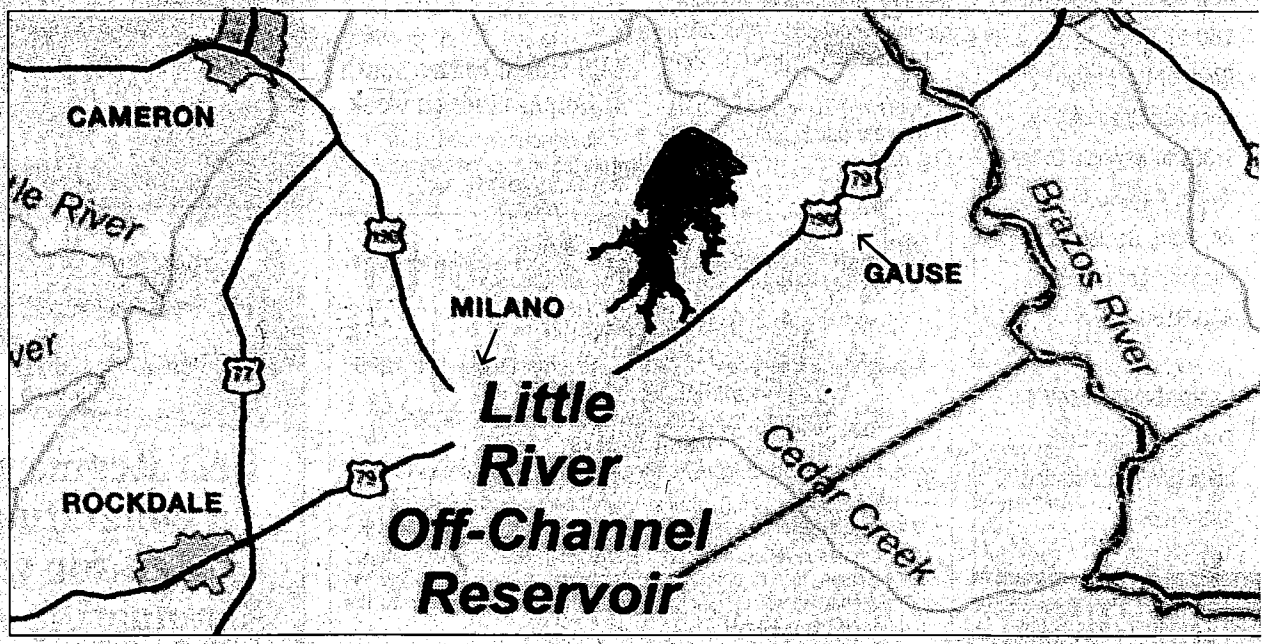

flows under County Road 343/243 and FM 3242 and empties into the Little River west of Sugarloaf Mountain.

OPPOSITION—While the LROCR idea remains just that—an idea, it's not the recurring specter of a lake virtually encompassing Cameron.

That reservoir was first proposed in 1967 and was a part of the Region G 50-year water plan at least as recently as 2001.

The "Little River Reservoir" would have surrounded Cameron on three sides—including parts of Cameron suburbs—and inundated 35,500 acres of land. The Bell-Milam Land and Water Rights Associa...

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WESTBOUND—The Cameron reservoir would have been for the benefit o... the Houston area, while th...

See WATER, page 6

Water

The Rockdale Reporter Thursday April 30, 2015

Continued from page 1A

LROCR would be tied to Williamson County, which continues to be one of the fastest-growing areas of the nation.

"It's a plan, and is in no way binding on anyone at this time," Gary Westbrook, Post Oak Savannah Groundwater Conservation District general manager, and a Region G voting member the past two years, told *The Reporter*.

"It's hard to say which of the options (for future Williamson County water needs) will actually become a reality," he said.

But Westbrook added, "at present it is my understanding that this (LROCR) may indeed be the highest-ranked project (for Williamson)."

PROJECTIONS—Westbrook noted that projections on which Williamson planners base that county's future water needs aren't set in stone.

While Region G has estimated Williamson will need an additional 129,000 acre/feet per year by 2070, the group wasn't able to include all the future water already spoken for.

"Some of the (Williamson County) cities have more water contracted from the Lower Colorado River Authority (LCRA) than is shown," Westbrook said. "But that can't be counted because they have not built the infrastructure to deliver and process the water."

He said when the already-contracted water is included, Williamson County's estimated additional water needs in 2070 compute to 40,000 acre/feet, not 129,000, according to HDR Consulting, figures.

PIPELINE—Will the LROCR ever actually happen?

Much will depend on infrastructure in that area, too.

"This project cannot become a reality until a sponsor commits to it," Westbrook said. "No one from Williamson County has committed to it, or any of the other recommended strategies at this time."

However, there's precedent for such commitments happening.

Most obvious example is the San Antonio Water Systems (SAWS) pipeline which will link Burleson County and the Alamo city.

And Blue Water Systems has built a pipeline from Burleson County to Manor.

"In the event a project does come forward (to create LROCR) it remains to be seen whether it could be accomplished," Westbrook said.

"It is very difficult these days to build surface water reservoirs due to so many environmental concerns," he added.

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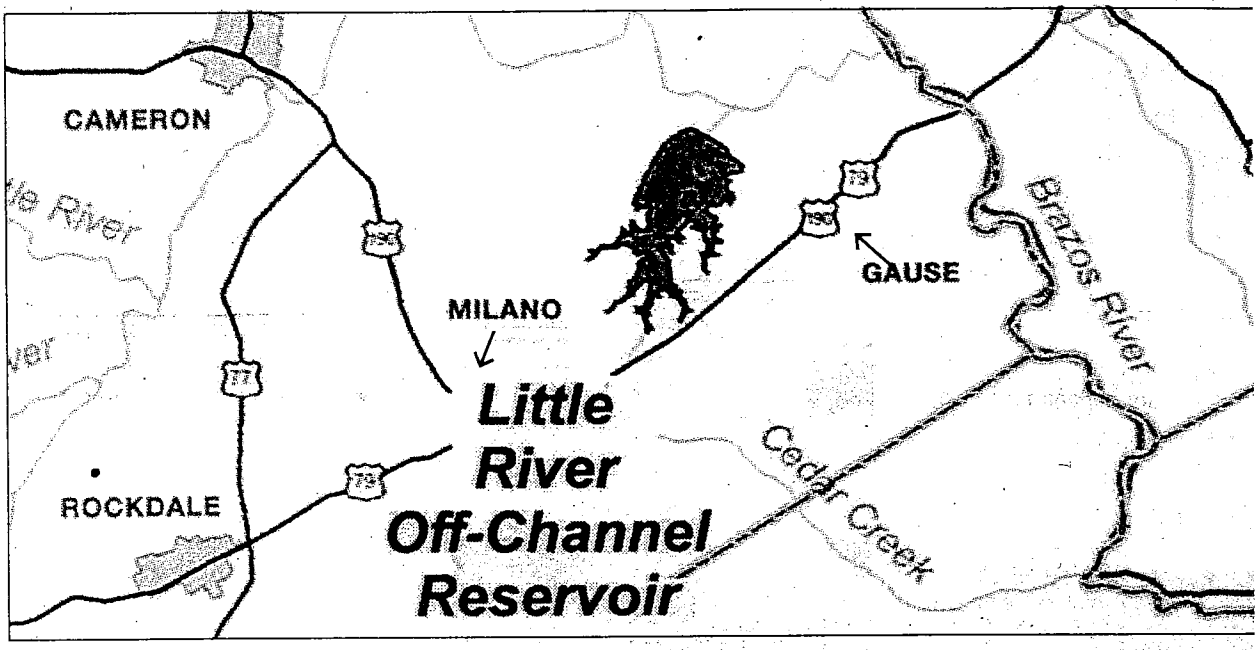

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Intersection of county history, Little River off-channel reservoir

■ By CURTIS CHUBB
Special to the Herald

At Monday's Milam County Commissioners Court, the local resistance to the planned Little River Off-Channel Reservoir may have been presented an important tool with which to challenge the reservoir plans.

At the meeting, Joy Graham, Chair of the Milam County Certified Local Government Committee, delivered the committee's annual report to the commissioners court.

Milam County attained the "Certified Local Government" designations by requiring the Milam County Historical Commission to incorporate certain duties in their bylaws which the committee helps fulfill.

One of those duties is to develop and maintain an inventory of historic properties.

At Monday's meeting, Graham presented each of the commissioners and the county judge a two-volume set of books containing the "Milam County Historic and Architectural Resources Surveys" for 2006 (Volume 1) and 2014 (Volume 2). These are also available at local libraries.

The surveys provide an in-depth look at the historic properties within Milam County even including their GPS locations and photographs. Milam County's history is rich and deep.

One of the most high-profile of the history preservation efforts in Milam County has been the work involving the El Camino Real de los Tejas.

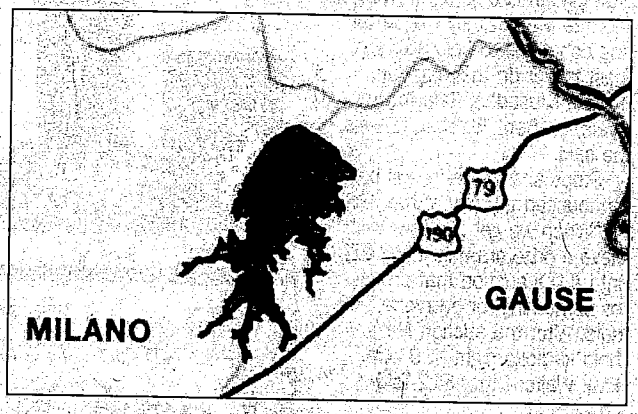
The El Camino Real de los Tejas is a trail that originated in Mexico City and stretched 2,500 miles to Natchitoches in Louisiana. It was first marked by Spanish explorers and missionaries in the 17th-century.

In 2004, Senator Kay Bailey Hutchison and Representative Ciro Rodriguez sponsored legislation leading to the designation of El Camino Real de los Tejas as a National Historic Trail which is now administered by the National Parks Service.

See Page 9

Commissioners oppose Gause reservoir

Residents to make plans on Thursday



CAMERON—Milam County commissioners, meeting in regular session Monday, have unanimously gone on record as opposing a state water planning group's "long range" option of creating a reservoir near Gause.

And residents of the Gause area are organizing to fight the idea.

A public meeting is set for 6:30 p.m. Thursday in the Gause Baptist Church Family Life Center.

The group can be contacted at stop.little.river.ocr@gmail.com.

RESOLUTION—Gause area resident, and Houston attorney, Wayne Fisher, appeared before commissioners Monday to support the resolution.

"We all recognize the need to try and solve water problems," he said, but added he did not agree with the concept of "might makes right."

"That the majority can take from the minority that which they've had for years and years is not a good thing," he added.

Fisher pointed out the much-touted, and congressionally-approved, El Camino Real National Historic Trail "runs right through the middle" of the proposed reservoir.

"They're trying to flood a nationally-designated historic trail," he said.

LAKE—Brazos G Regional Water Planning Group included the "Little River Off-Channel Reservoir" in a draft 2016 water plan.

The 155,812 acre-feet capacity proposal would cover about 4,300 acres in the Beaver Creek drainage south of the Little River and between Gause and Milano.

Resolution text reads:

"The Commissioners' Court of Milam County, Texas opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and /or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration."

The Eagle
Bryan-College Station, Texas ★ theeagle.com
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June 16, 2015
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Planned Milam reservoir unfair to county landowners

At a recent meeting in Milam County, our neighbors were introduced to the tools needed to oppose the construction of a 155,000 acre-foot reservoir between Gause and Milano. Although a proposed reservoir in Milam County has been in the State Water Plan since 1968, the current version was a complete shock to landowners whose properties would be inundated with Brazos River water.

How can a project so large come as a surprise? Why would public oversight planning boards and elected officials know about this possibility but the landowners be in the dark? Well, when you are busy with work and family, it is difficult to find time to scour thousands of pages of an ever-changing State Water Plan.

No one expects to be blindsided. The state should be required to forewarn property owners when their land is declared a unique reservoir site.

As for the State Water Plan, it is becoming the ultimate profit churn for a select, government connected and privileged group of Texans.

We have dozens of public oversight boards, but none with absolute authority. We have public hearings, but the listeners are these same political subdivision board members who initially approved the plan. On the other hand, the real planners are hired specialists whose professional self-interests lean toward generating more studies, more water projects, and more water allocation plans requiring their expertise.

The Little River off-channel reservoir project in Milam County will cost $250 million. The specialists and contingency fees will be $50 million — a good chunk of change. For the more than 4,300-acre lake the state wants to create, costing families their homesteads, the planners expect to pay less than $18 million — about $4,200 per acre. From a landowners perspective, how can this be fair?

Get engaged. Stay informed. Ask questions.

CATHY LAZARUS
Calvert

Reservoir 'lose/lose' for Milam County

Residents plan appeal before water authority

GAUSE—The proposed "off channel" reservoir for eastern Milam County drew over 130 concerned persons to a meeting at Gause Baptist Church Thursday.

The group was concerned the proposal—it's listed as a long-range option for Williamson County water by a regional planning group—will take away land that's been in some families for generations.

'NO BENEFIT'—County Judge Dave Barkemeyer said the "Little River Off-Channel Reservoir" has a lot of down sides and no up sides so far as Milam residents are concerned.

"There will be no economic benefit," he said.

"There would be no recreational value, no boating, or fishing allowed in the lake," Barkemeyer said. "There would be no commercial or residential development allowed around its perimeter."

Milam County commissioners two weeks ago unanimously passed a resolution opposing the reservoir, which would be north of US 79 between the Milano and Gause areas.

"The primary concern we all ought to have is our land owners and the people who are directly affected," Barkemeyer said. "We need to back them and give them our support."

CHALLENGE—Land owner Mike Conner, who said 60 of his 70 acres would be affected, challenged whether the reservoir would actually help fast-growing Williamson County as much as Region G planners believe.

"By their own numbers they don't have the need to justify this reservoir until at least 2050," he said. "There are other alternatives that are probably a lot cheaper and easier to achieve."

Property owner Wayne Fisher, who is also an attorney, said there are serious legal problems with the process.

"They'll say they will only condemn surface land," he said. "We as land owners own the groundwater that's down below that."

"If that's the case, if you inundate all that land with water, how would we be able to retrieve the groundwater that's down below that?"

Fisher had also pointed out the reservoir, as envisioned, would also inundate a portion of the much-promoted El Camino Real de los Tejas National Historic Trail, which was created by an act of Congress.

(See editorial, page 5A.)

Land owners decided representatives of the anti-reservoir movement would appear before the next Region G meeting June 23 in Waco to voice their opposition to the reservoir, which would drain 4,300 acres and have a capacity of 155,812 acre-feet.

The Rockdale Reporter

EDITORIAL

Lines on a map

Gause reservoir plan sprang from failing to see impact on real people

It now appears the plan to place a reservoir in east central Milam County is about to be—pardon the phrasing—dead in the water.

A motion to remove the reservoir from Brazos G Regional Planning Group's long-range water plan is expected to be presented this fall and at least one voting member of that board believes it will pass. (See story page 1A)

The reservoir's impact on area residents and even our state's history—it would inundate a portion of the El Camino Real de los Tejas National Historic Trail—has been well documented. But if this is, indeed, the beginning of the Pin Oak Reservoir's obituary, it's fair to ask where the idea came from in the first place.

It almost certainly sprang from a computer program which was designed to show where population-exploding Williamson County could find more water later on this century. The program was asked to prioritize where the water might be and how close to North Austin Metro.

It looked at those factors and saw Pin Oak Creek, the Little River and the Brazos. In other words, lines on a map.

What it did not see was people whose families have lived in the area for well over 100 years. Did not see the winding driveway through pristine wetlands that's 15 degrees cooler than the county road on a summer afternoon.

Did not see the red sandstone rocks that tower a dozen feet high over a hill that almost certainly was visited by the first Americans a thousands of years ago.

Did not see the pride in a resident's eyes, nor hear the catch in his voice, when he described how his great grandfather had settled the land on which he was now standing and still lived.

The bureaucrats who initially looked at Pin Oak Creek aren't bad people. They just needed to be shown it's more than lines on a map.

Now they have. We trust they will do what's right.—*M.B.*

The Rockdale Reporter and Messenger
Thursday, June 18, 2015

LETTERS TO THE EDITOR

Stay informed to stop Gause Reservoir plan

Dear editor,

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Although a proposed reservoir in Milam County has been in the State's Water Plan since 1968, the current version was a complete shock to landowners whose properties would be inundated with Brazos River water.

So how can a project so large come as a surprise? Why would public oversight planning boards and elected officials know about this possibility but the landowners be in the dark?

Well, when you are busy with work and family, it is difficult to find time to scour thousands of pages of an ever-changing State Water Plan. No one expects to be blindsided. The state should be required to forewarn property owners when their land is declared a "unique reservoir site."

As for the State Water Plan, it is becoming the ultimate profit churn for a select, governmentally connected and privileged group of Texans. We have dozens of public oversight boards, but none with absolute authority.

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On the other hand, the real planners are hired specialists whose professional self-interests lean to generate more studies, more water projects, and more water allocation plans requiring their expertise.

The Little River – Off Channel Reservoir project in Milam County will cost $250 million. The specialists and contingency fees will be $50 million – a good chunk of change. For the 4300+ acres they want to flood and families losing their homesteads, the planners expect to pay less than $18 million – about $4200/acre. From a landowners' perspective, how can this be fair?

Get engaged. Stay informed. Ask questions.

Cathy Lazarus
Robertson County resident
clazhome@msn.com

Commissioner's Court opposes off-channel reservoir

At our most recent Commissioner's Court meeting we unanimously passed a resolution opposing the construction of an off channel reservoir near Gause that is being considered for inclusion in both the Brazos G and Brazos H Regional Water Planning Group in the next water planning cycle of the state of Texas. At their last meeting the Gause School Board has also joined us in passing a resolution opposing the reservoir.

I'm sure there are at least some of you that are questioning why we would be opposed to this, thinking that this could be a good deal for

DAVID BARKEMEYER,
Milam County Judge

Milam County, providing a recreational fishing and boating haven in our area as well as a potential real estate and commercial stimulus for the county, not to mention a long term source of water.

The answer is that we are told that it would do none of the above. The reservoir would be off limits to boating, no development would be allowed around the perimeter, and the water would be only available to the out-of-county sponsor of the project.

In addition the Milano and Gause school districts as well as Milam County would lose much needed tax base, the local land owners that would be affected would lose their property at condemnation values only; in other words, there is no apparent significant economic benefit to us locally.

But most of all, I feel we should back our fellow Milam County citizens who would lose their homes, their family owned property, and family grave sites in Pin Oak Cemetery.

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VOLUME 129 • ISSUE 25

Robertson County News

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Robertson County Resident

Reservoir opposed by commissioners

JUDGE'S COMMENTS

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dbarkemeyer@milamcounty.net

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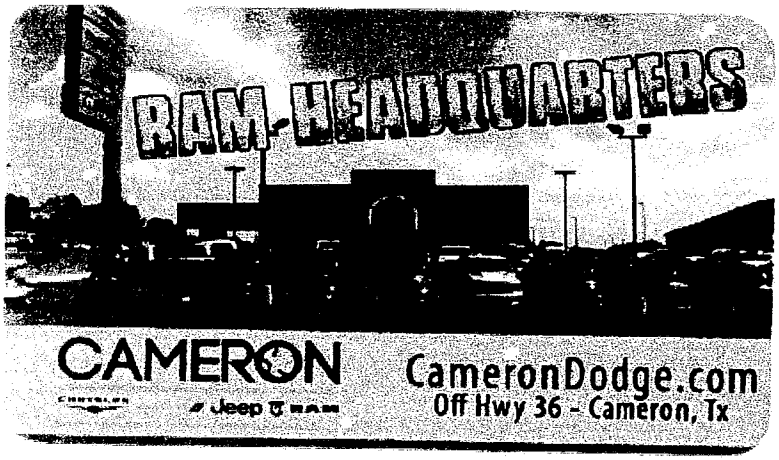


MILAM COUNTY LANDOWNERS FACE POTENTIAL PROPERTY LOSS

(GAUSE) A group of landowners in Milam County is due in Waco today to speak at a pu at the Brazos River Authority office where it will oppose an effort to flood more than of land that is intended to reserve water for Williamson County.

Wayne Fisher, a Houston lawyer who grew up near Gause, is representing the group o landowners, which he says numbers about 50, at today`s public meeting on the issue building.

The proposal calls for seizing 4,343 acres of land in east central Milam County near G it into a reservoir that would store water for sale to Williamson County. The impounc from Little River, when the lake is completed, would inundate Farm-to-Market Road between Gause and Cameron. The proposal is included as part of Water Planning Bra Regional Group`s 2016 regional water plan. The pipeline project and treatment plan about $177 million.

To be viable in the future, the plans must be submitted by Dec. 1 as part of the 2016 Water Plan.

Return to Headlines

Milam County residents make their case

CATHY LAZARUS

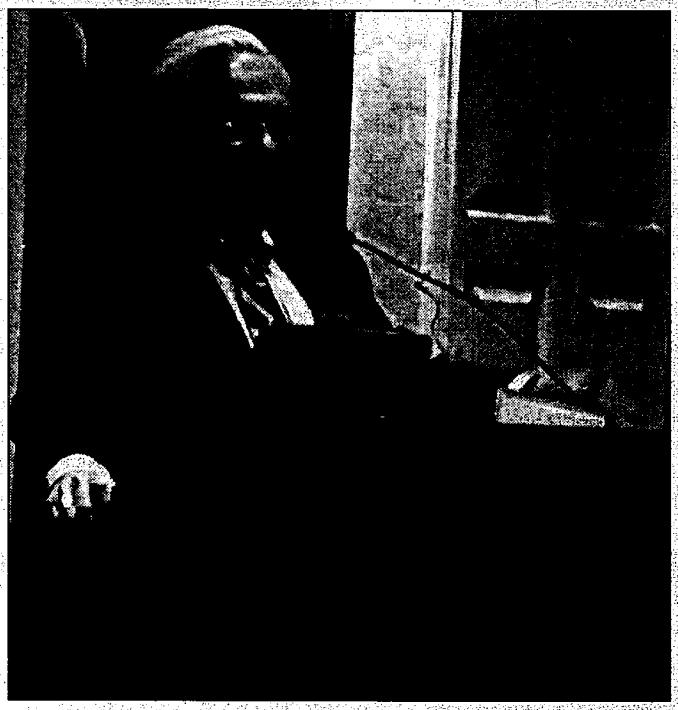
Robertson County News

More than a hundred Milam County residents crowded three Brazos River Authority conference rooms to oppose the construction of the Little River Off-Channel Reservoir during the public hearing for the initially proposed regional water plan. This plan is being complied by the Brazos G Regional Water Planning Group and will eventually become part of the 2016 State Water Plan.

With obvious controlled passion and emotion, several attendees methodically presented very compelling arguments against inundating their family legacies, historic cemeteries, livelihoods, and hopes for the future with Brazos River water... even part of the El Camino Real de los Tejas National Heritage Trail would be lost forever. They demonstrated why destroying wildlife and botanical habitats would be a true travesty. They explained why the knowledge of this impeding reservoir and inevitable litigation would put the lives on hold. They showed concern that destroying these beautiful homes and property would be an economic blow to local businesses and local tax bases.

Applause from their community supporters followed each speaker. None more welcomed than when Gary Westbrook, the manager of the Post Oak Savannah GCD and a member of this planning group representing groundwater districts, announced he would move to omit the Little River – OCD from the 2016 Regional Water Plan. Apparently, recent geological studies were not supporting the LR-OCR location as a unique reservoir site.

However, their fight is not over. The motion will have to be approved by a majority of the Planning Group and then by the Texas Water Development Board later this year.



CATHY LAZARUS | ROBERTSON COUNTY NEWS

Milam County native Wayne Fisher opens residents' civil discord with the Brazos G Regional Planning Group

The Brazos G Regional Water Planning Group will accept written comments about the extensive plan until August 24, 2015. The final approval will be in December. Visit www.brazosgwater.org for more information.

BRA Region G proposed off-channel reservoir adds insult to injury

Guest commentary by Marion Travis, Cameron

To BRA Region G Members:

Although qualified to do so, I have to do no academic research to assert that your Brazos G Regional Planning Group seeks, perhaps unwittingly, to add a shameful new chapter of neglect to the people of Milam County. Most of my long life has been lived in Central Texas; accordingly I am a witness to Brazos River Authority's disregard for the topographical realities of this county since the BRA's beginning in the 1930s.

Born in Cameron in 1929, I grew up on the upland of Little River immediately north of Cameron. My family's property included Little River bottomland that frequently flooded my family's crops. Occasionally the floods were beneficial; otherwise they were destructive. Thanks be to God we were fortunate to have other sources of income. We were excited about the creation of Brazos River Authority expecting improved life in Milam County. Naively, we believed Milam County—crossed by Little River—would benefit someday. No one knew that BRA planning from the beginning would disregard, even exploit, Milam County's people.

Now we see that BRA practices over untold decades have encouraged economic development elsewhere in the Brazos basin while its policies continue to degrade our environment.

Little River's watershed embraces 2,349 square miles, which means, according to the U.S. Geological Survey, it is bigger than the two U.S. states--Delaware at 2026 square miles and Rhode Island at 1213 square miles.

Instead of the expected public benefit in Milam County, BRA planning over the years would eventually reduce water flow in Little River turning it into a convenient sewer for wastes from 41 permitted outfalls from municipal and industrial waste. Further, rains wash animal waste, fertilizer, and pesticides into Milam's majority share of Little River. The river is unfit for public recreational use. BRA administrators had to know all along that, after construction of watershed dams, Little River watershed's configuration would produce precisely this result. Did BRA have a policy to do no harm? I see no such evidence. In fact, it continues its exploitation.

"BRA planning over the years would eventually reduce water flow in Little River turning it into a convenient sewer for wastes from 41 permitted outfalls from municipal and industrial waste."

The Brazos River is the longest river in the U.S. to be confined to one state. The Brazos River Authority is an important, huge, wealthy entity today. It contracts with world-class engineers at great cost to plan its water improvements. Likely, looking for the least expensive practical solution to a need, the BRA puts constraints on its engineers to find the least expensive means to accomplish a desired result.

It is out of these circumstances that the newly proposed Little River Off-Channel Reservoir is designed. Its purpose is to provide Brazos River water storage chiefly for population needs outside of Milam County. Milam citizens are asked once more to play a purely utilitarian role at the behest of BRA for benefit of other counties. We are again being used. How? Now BRA plans to seize valuable private property in Milam County to someday build a reservoir of no benefit to the people living in Milam County. Instead it is destructive; meanwhile—whatever time that covers—the titles of targeted private property are clouded.

BRA's historical maltreatment of Milam County is an outrage that no local citizen can take lightly.

Everyone knows a dam on Little River—before it drains into the Brazos—would not be an optimal solution because City of Cameron is near the vastness of our river bottomland. Doubtless BRA policy is to make its projects cost-effective. Apparently, providing potable or recreational water to Milam County would not be cost-effective.

Yet we know also that world-class engineers such as those who contract with BRA are capable of designing a solution to most problems. Did their planning seek alternatives to an off-channel reservoir in Milam County?

Did the BRA's engineers look at all the alternatives to increase water supply for others? Did they examine the possibility of increasing the capacity of Lake Georgetown or Lake Granger? Increasing the size of a water storage lake is not a new idea. It has been done successfully before. If river water storage capacity is not keeping up with population growth, a second taller, wider dam may be built downstream from an existing, outmoded dam. Upon completion of the new dam, the old dam is demolished. The result is a greatly increased water supply for nearby population.

The above would be only the beginning of other solutions for water supply rather than the proposed off-channel reservoir in Milam County.

To be sure, water is an essential of life. It must be provided for Texans. But in the U.S.A. planners affecting the public good shall exhaust all possibilities before sacrificing private property when such an action will produce no comparable benefit to citizens stripped of their land.

I demand that BRA Region G shall take a long, second look at what it is proposing.

TEMPLE DAILY
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CENTRAL TEXAS WATER

Brazos G plan aims to ensure water for future growth

BY CHRISTIAN HERNANDEZ
TELEGRAM STAFF WRITER

Despite recent rainfall, water shortage continues to be an issue in Central Texas. According to Water Data for Texas, a part of the Texas Water Development Board's Surface Water Resources division, state reservoirs were only 84 percent full as of Thursday.

The Texas Water Development Board divided the state into 16 regions labeled A through P — each tasked with the development, management and conservation of its region's water resources, according to the Brazos G Regional Water Planning Group's 2016 Plan.

The Brazos G Regional Water Planning Group is responsible for 31,600 square

Water

Continued from 1A

about 70 miles from the Texas-Oklahoma border.

Every five years, regional groups produce a plan to address water issues as they arise. Brazos G's 2016 Plan uses a planning horizon of 50 years, from 2020 to 2070, and includes proposals for up to 14 new reservoirs, the augmentation of four existing reservoirs and various other strategies such as water reuse, water conservation and aquifer management.

Several potential strategies included in the 2016 plan could affect the Telegram coverage area — two in particular. A Belton-Stillhouse Hollow pipeline could move up to 30,000 acre-feet from Lake Belton to Stillhouse Hollow Lake, which has a direct pipeline to Granger Lake in Williamson County. Also, the Little River Off-Channel Reservoir would create a 4,300-acre reservoir and displace several fourth-generation landowners.

According to the Brazos River Authority, the final plan would be submitted later this year to the water development board for review and possible inclusion in its 2017 state plan.

Water plans deal with huge amounts of water which are usually expressed in terms of acre-feet. An acre-foot is the volume of water that would cover one acre one foot deep — roughly 325,800 gallons.

According to the U.S. Environmental Protection Agency, the average daily water usage for an American family is more than 300 gallons. In other words, one family uses 108,000 gallons, or about a third of an acre-foot, per year.

The water that a typical household uses is considered to be a part of the municipal demand. Other factors that contribute to this same demand are commercial establishments, fire protection, public recreation and sanitation. The total water demand for Region G in 2010 was 870,180 acre-feet, and 42 percent of that was municipal water.

Municipal demand, though, is only one of six types of demands; the others are manufacturing, steam-electric, mining, irrigation and livestock. By 2070, the total demand for Texas is calculated to be 1,478,731 acre-feet — a growth of 69.9 percent, according to the Brazos G plan, which can be read online at www.brazosgwater.org/2016-Water-Plan.aspx.

The region's population was 1,972,449 in 2010, and is expected to more than double that by 2070. It is projected that together, Bell and Williamson counties in 2070 will have more than the population for the entire region from 2010, according to the Brazos G plan.

This projected growth is centered in a few key hotspots. Six counties in the region — Bell, Brazos, Coryell, Hood, Johnson and Williamson — are expected to have an annual growth rate of more than 1 percent. But none of the others tops Williamson's, at 2.4 percent growth annually.

Growth in all of Region G is said to concentrate around the Interstate 35 corridor and U.S. Highway 183, which coincide in Williamson County. Brazos G predicts the populations of Williamson County cities Round Rock, Leander, Georgetown and Hutto to more than quadruple from 2010 and 2070.

The rise in population would obviously come with a increase in demand for water.

Thirty of the 37 counties are expected to experience a shortage of water at some point between now and 2070. For the counties immediately surrounding Bell County in Region G, all but Milam County are included in the list of projected shortages, according to the Brazos G website.

Counties are divided into water user groups. They are defined as cities of more than 500. County land not covered by a city water supply falls into a sort of blanket water user group for the area. For Bell County, three of the 12 water user groups will experience shortage in the 2020s — with Temple following closely in the 2030s.

Comparatively, 14 of 18 Williamson County water user groups will see a shortage in the 2020s.

chernandez@tdtnews.com

FRIDAY, June 26, 2015

Gause residents defend property, heritage

BY CHRISTIAN HERNANDEZ
TELEGRAM STAFF WRITER

A proposed 4,300-acre reservoir has many Milam County landowners outraged. The Little River Off-Channel Reservoir, proposed to be built in the unincorporated community of Gause, is a part of the Brazos G Regional Water Planning Group's 2016 plan.

A future need for water in neighboring counties has led Brazos G to propose this and 13 other new reservoirs in the region.

Brazos G held a public hearing Tuesday morning at the Brazos River Authority Central Office in Waco. Many people opposed to the plan attended to speak their minds. Mike Kornegay, Judy Simmons Marks and Wayne Fisher live in Gause and own land that would be affected by the reservoir.

Please see PROPERTY, 5A

niles. It comprises Bell, Williamson, Milam, Falls, McLennan, Coryell and 31 other counties from Washington County in the south to Knox County in the north,

Please see WATER, 5A

Property

Continued from 1A

In the 2016 Plan, Brazos G has budgeted money to purchase the land, but Gause landowners say that financial compensation is beside the point.

"It's my life," Kornegay said. "It's not about the money." Both Kornegay and Marks are fourth-generation landowners whose great grandfathers purchased the original land parcels in the late 1800s.

"It's a heritage issue," Marks said. "We can go buy more land somewhere else if they make us sell it to them, but we don't want to buy other land."

Kornegay, a 68-year-old retiree, owns about 300 acres in Gause. If the plan goes through, all but about 20 acres would be underwater and the remaining land would no longer be accessible, he said.

An additional 244.5 acres owned by the family would be in danger of being inundated should the proposal go through. These family lands are where Kornegay's father was born, and where together they cleared the land to eventually rear cattle, he said. "Lots of blood, sweat and tears went into this place," Kornegay said. "But I did it for the love of my daddy."

How the community is speaking up

Though the plan for a Milam County reservoir is still in the preliminary stages and has not been approved, disgruntled landowners are not waiting to act.

Petitions are available at Milam County businesses in opposition to the Little River Off-Channel Reservoir:

- **M&M Farm Supply — 2208 W. Fourth St., Cameron**
- **Anderle Lumber Supply — 1300 W. Fourth St., Cameron**
- **Midway Grocery — 446 Murray Ave. Rockdale**
- **Coats Grocery — 120 E. Gause Blvd. Gause**
- **Croew Co. — 7257 U.S. 79 Milano**

An online petition was created to supplement the paper ones, and a Facebook page was created. The Facebook page, called "Stop Little River Off-Channel Reservoir," recruited 364 followers since its creation in late May. On the group's wall, followers share photos of historical artifacts found in the area, family pictures dating back decades, and news coverage telling their story.

Marks also is retired. She moved back to her birth place to look after properties that her mother had left her, including 235 acres on Alligator Creek. The land was purchased by her great-grandfather to use as farmland. As far as she knows, all of the property is in danger of being flooded, she said.

Fisher is an attorney and travels frequently, but said that his main home is Alligator Creek Ranch, a 1,500-acre ranch in Gause. He serves as the chairman of the board for the Scott & White Healthcare Foundation and served as the 101st president of the State Bar of Texas. Should the plan go through, he is in danger of losing hundreds of acres of his property, which he calls his pride and joy.

Fisher and other landowners said that they are not opposed to the idea of a reservoir, but absolutely disagree with the proposed location. "This is the most beautiful, scenic part of Milam County," he said.

In addition to the heritage, the natural beauty of the area and its historical significance, another argument against the reservoir is that the landowners report sand on their properties would make it very difficult to hold water on the land.

Fisher invested $100,000 to make a lake of about 4 acres on his property. The results? "It was like someone pulled a stopper from a bathtub." After recent rainfall, his planned lake filled up again, but had dropped about 4 feet a week or two later.

Of the three landowners mentioned, not one remembers anybody coming out to their property to inspect it for the feasibility of the reservoir.

The landowners believe that the proposed reservoir would not directly benefit Milam County residents. The Little River Off-Channel Reservoir would have a direct pipeline to Granger Lake in Williamson County, which has had difficulty satisfying its increasing water demand.

Marks urges Brazos G to explore other options to address the Williamson County's water woes, "I'm sorry for the people of Williamson County ... but we shouldn't have to make that sacrifice for them."

chernandez@tdtnews.com

Reporter/Mike Brown

Mike Kornegay looks over land that's been in his family well over 100 years. Virtually all of it would be under water, or inaccessible, if the proposed Little River Reservoir is constructed to supply water for Williamson County.

It's all about family

Many generations lived in area now threatened

By MIKE BROWN
Reporter Editor

Mike Kornegay pulls his ATV over to the side of Milam County Road 343.

"See that little trickle of water running down the ditch? It does that all the time. This hill just seeps out water."

There's not much about this land northeast of Milano he doesn't know. The first Milam County Kornegay—great-grandfather Robert Arnold Kornegay—came to this place at least 128 years ago.

And there's an unbroken line down through the years, from Robert Arnold to son A. W. Sr. to grandson A. W. Jr. (Bulldog) to great grandson Mike and siblings Gary Kornegay and Cheryl Stewart.

FIGHT—And now it's threatened. No group would lose more than the several Kornegay families who live on about 800 acres of virtually untouched land quite literally deep in the heart of Texas.

"It would all be affected," Mike Kornegay said. "It would either get covered up with water or there wouldn't be any access to it."

Needless to say, the Kornegays and their neighbors are heavily involved in the fight to keep 4,300 acres of land from being flooded by the proposed Little River Off-Channel Reservoir.

He returned to his ranch Friday afternoon after a busy morning getting signatures for a petition opposing the reservoir plan.

"We're getting good response but where we're really getting great support is on the Internet," he said. "This movement has really taken off. A lot of peo-

See FAMILIES, page 6A

Reporter/Mike Brown

Above, the view from Gary and Lisa Kornegay's hilltop house. If the reservoir is built, those hay bales and trees would be under water and the home would become an island. At right, placid Pin Oak Creek would disappear as would historic Pin Oak Cemetery.

Families

Continued from page 1A

ple care."

Kornegay cares a lot. An invitation to tour the land on his ATV—kind of a cross between a golf cart and a Sherman tank—turns into a three-hour travelogue, nature hike and history lesson.

A visitor ends up feeling the land more than seeing it.

ROCK STAR—Kornegay steers down a lane owned by a neighbor. Trees make a canopy above. It's 15 degrees cooler than the county road. There's standing water to one side.

"They talk about wetlands," he said. "These are our wetlands. We'd never touch them. If that lake comes they'll all be gone. If it doesn't, we'll preserve them."

The destination is a 12-foot high red sandstone rock that towers above an outcrop. Kornegay says you can see a face in it if you look hard enough.

It's impressive and more than a little spooky. There were Native Americans in the area thousands of years ago. It doesn't take much imagination to see this place being a sacred spot.

The trusty ATV somehow groans up a hill to provide a view that would fit proudly in a national park.

Across the county road, on top of a slightly higher hill, is a house.

"My brother Gary and his wife, Lisa, that's their house." Kornegay said. "That would be an island. They'd be totally surrounded by water. No way in or out."

(Officials have said there would be no recreation use, no development and no tax advantages if the reservoir is built.)

'DON'T GET IT'—Kornegay admits to being angry at the plans but, out here in his element, something deeper comes across.

"Why would anyone want to cover this up?" he asked, sweeping his hand across a vista that literally stretches across 360 degrees.

"I just don't get it," he said.

He doesn't think the planners at Brazos G Regional Water Planning are bad people. He's just not sure they see the same things the Kornegay families have cherished since at least the McKinley Administration.

When the reservoir idea first came up, Kornegay wrote letters to 25 officials in the Brazos River Authority.

"I got three replies," he said. "And one of those three was from somebody who lives here in this area. They were all nice to me. But three out of 25?"

"So far as I know nobody from that water bunch has ever come out here and looked at this land," he said.

The Kornegay family has expanded its holdings since Robert A. moved onto the first 244-1/2 acres so long ago the exact date isn't known.

"We know it was at least 128 years ago," Mike Kornegay said. "He may have come here not too long after the Civil War."

About 600 more acres have been added by the family in approximate 300-acre increments, purchased during World II and sometime later in the 1940s or early in 1950s.

"This effort to keep the land from being ruined, it's not just for us who live here now, it's also for all of those who have lived here before, all the way back to my great grandfather," he said.

Kornegay's uncle Willard and cousin Arnold also own land in the immediate area.

The sun is starting to bend low over land that a couple of decades from now will either be the shore of a lake, or look a lot like it does now.

The ATV rattles on and the "weeping hill" trickle of water reappears.

"That's the only water we want to see," Mike Kornegay says.

CONTINUE TO OPPOSE OFF-CHANNEL RESERVOIR

I would like to take this opportunity to thank the persons, who made presentations on this subject at last Tuesdays Region G meeting/Public Hearing in Waco. The presentations were well prepared and they limited their material to the subject at hand. It am taking this opportunity to discuss some topics that seem to be overlooked, and have been since the debates surrounding the 2001 and 2006 Public Hearings and action relative the the Little River Reservoir on channel.)

It seems to me that we in Milam County do not realize that our distracter is not the citizens of Williamson County and Harris County, the distracter is the Brazos River Authority (BRA) and will continue to be such for years to come, and maybe even generations to come. If my understanding of the history of the area is near close to reality, this battle has been going on since the mid 1960s. It then reared its ugly head again in the late 1990s, and here it is again in the 2010s. On each of the previous occasions there has been a significant opposition mustered up to fight back, and once again the opposition is well organized and energetic.

Since I have been on the fringe of these issues and have not had land that will be directly affected physically by any of these projects, there is a definite affect on my life, and on my community, which is Milam County. This is not a battle between Region G and the folks in Pin Oak Cemetery, 22-Hills, etc., this is a battle between BRA and its encroachment on the liberties and property rights of the people of all of Milam County, and surrounding counties. Each time BRA takes another acre for their water marketing practices, that is another acre that the citizens of Milam County have to cover the lost tax base, and productivity losses for the to the County, and affected School Districts. I am sure that the Houston and Georgetown Independent School Districts would not have to make and serious changes in the operations if they lost a million dollars of revenue over a short period of time, but $1 million is total devastation to a small rural school system like Gause Independent School District.

Let us not be confused, and let us get out of the habit of calling these reservoirs that BRA, Region G, and Region H keep pushing as lakes. Lake Conroe is a lake and what is, and has been, proposed for Milam County are shallow reservoirs that will be detrimental to the area.

While at the meeting in Waco I heard the number of about 4,300 acres. I believe that is the foot print of the actual reservoir, and not the acreage that would be purchased for captured by eminent domain. During the 2006 hearing process the BRA, Region G and Region H that the reservoir would be about 35,000 acres, yet hidden down inside of the multi-volume plan a outline for surveying, appraising and acquiring over 50,000 acres, Is the Little River OCR, going to survey, appraise and acquire 4,300 acres, or more like 6 to 7,000 acres?

I would like to encourage the citizens of Milam County to get behind this usurpation of eminent domain and let

See Page 5

DAVID BARKEMEYER,
Milam County Judge

Editor's Note: County Judge David Barkemeyer is on vacation this week. His column will resume when he returns.

Continued from Page 4

us lend our assistance to the group of persons affiliated with the Stop Little River OCR movement. If history repeats itself you could be the next victim of this type of reckless behavior by government and quasi-government organizations. Remember it is BRA that gets the water from the Little River OCR to in turn market it at a profit to the people of other counties with no apparent benefit to Milam County.

– Nicholas J. Roberts, Cameron

LETTERS TO THE EDITOR

Allegations of POSGCD mismanagement listed

Dear editor,

Many of us have watched with alarm as the Post Oak Savannah Groundwater Conservation District has adopted policies which will deplete our aquifers.

Unfortunately, the district is rewarded for issuing excessive pumping permits since permit holders have to pay fees to the tune of $1.8 million this year.

Since the district's general manager is one of Milam and Burleson counties' highest-paid public officials, the district should be one of the best-managed government agencies in our area.

Unfortunately, that is not the case. Instead, annual financial audits for 2011, 2012, and 2013 show that annual spending was greater than revenues.

We have documented using public information requests that the district violates its own financial management policies. Here are just two of the problems that we uncovered:

- Four water wells were completed at a cost of $77,000 without a contract, although board policy calls for contracts.
- District employees do not submit required travel vouchers, a practice which prevents the public from knowing where they travel, why they travel, and how they spent our money. In 2014, district employees spent more than $16,000 for travel.

On May 8, we sent an e-mail to each district director and shared our findings about these and other policy violations and requested a full-scope audit.

Even though we requested a response, no director has replied.

Although the directors appear to be unconcerned about the financial problems that we uncovered, we believe that they are serious and have forwarded our concerns to the Texas State Auditor's Office.

Is there anyone at the district who cares about how our money is being spent?

The financial accountability and transparency of the district have to be improved. The citizens of Milam and Burleson Counties deserve better.

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The Rockdale Reporter

Vol. 143, No. 34 | Thursday, July 2, 2015

Tide turns against reservoi

Board member 'optimistic' on removing Gause option

By MIKE BROWN
Reporter Editor

The proposed Gause-Milano area reservoir may have dried up and blown away by Christmas-time.

A crowd of 160 persons—many of them affected Gause-area landowners—packed a regional water planning group meeting last Tuesday in Waco to express opposition to the plan in no uncertain terms.

"I believe we got their attention," area resident Wayne Fisher, and spokesman for the group, told *The Reporter*.

That attention could soon yield the kind of results members of the Stop the Little River Off-Channel Reservoir organization want to see.

Gary Westbrook of Milano, a board member of Brazos G Regional Water Planning Group which listed the project in its long-range plans in April, said he would introduce a motion at a subsequent meeting to drop the reservoir from those plans.

Westbrook told *The Reporter* he was "very optimistic" the motion would be approved by the 22-member Brazos G board.

"There's certainly enough evidence (to drop it)," he said.

Westbrook is also general manager of the Post Oak Savannah Groundwater Conservation District (POSGCD). He said the POSGCD is undertaking a study of the area, which he termed "highly undesirable as a reservoir site."

"(After the study) I don't think anyone, Brazos G or another water planning group, would ever want to consider putting a reservoir there," he said.

DRAINAGE—Westbrook said the site of what's been termed the Pin Oak Reservoir was not evaluated in depth before April when it was placed in Brazos G's long-term plans to relieve a projected future Williamson County water shortage.

See RESERVOIR, page 6A

Reservoir

Continued from page 1A

He said more recent data has revealed the site's shortcomings.

"It's sandy land and it's going to drain right into the (underground) Carrizo Outcrop," he said. "Forty-two percent of the reservoir is over that outcrop. That means much of the water would just drain into the ground, where it could be accessed by water pumpers and not ever get into the pipeline to Williamson County, which is supposed to be the purpose of the project."

Land owner Fisher agrees. "I've faced that problem on my land with my own small lake," he said.

"It would just drain down. When we got all that rain this spring it filled up for the first time in five years," he said. "But in a very short amount of time it went down four feet."

"Old-timers in this area know that," he said. "I was told by one 'you're never going to get water to stay in there'."

Westbrook said his motion to scrap the Pin Oak site probably wouldn't be at Brazos G's next session in August, but would be before the board's water plan is due to be adopted in December.

Westbrook said Brazos G board members had viewed the reservoir as only "an idea" and that it turned up in their planning "because of its proximity to Williamson County; this was the closest thing the modeling research showed."

'IRREPLACEABLE'—The site has another huge "strike" against it.

The Pin Oak Reservoir would inundate a part of the El Camino Real de los Tejas National Trail, which has been touted as a major tourist and cultural attraction for Milam County.

Steven Gonzales, executive director of the trail association joined the chorus of voices asking the water planning group to reconsider.

"This action would forever alter a nationally significant roadway and destroy an elemental part of our state's history," he said.

Gonzales said it's hard to overstate the importance of the trail. "The Camino Real led to the founding of Texas," he told Brazos G. "In fact, it's easy to state we would not be calling Texas 'Texas' without it," he said.

"Our association, along with the citizens and elected representatives of Milam County, ask that you reconsider this proposed inundation, as we hope that you will see that the project will do great harm to this irreplaceable resource," Gonzales said.

He said ECR trail officials are working to set up a meeting, likely in Gause, in late July.

"We will bring together potentially affected landowners, county officials, our organization, and GTI Environmental (an archaeological firm) to discuss some things we might be able to do to link landowner properties to the trail and to demonstrate the historic significance of these properties, so that they will hopefully be better protected from inundation by the proposed reservoir," he said.

See editorial, page 4A.

LETTERS TO THE EDITOR

STOP LITTLE RIVER OCR

The selfishness and greed exhibited by the tyranny of eminent domain perpetuated on innocent victims is blatantly illustrated by the Little River Off-Channel Reservoir proposal collaborated by the Brazos River Authority / Post Oak Savannah Water District.

The reaction of the organized Stop Little River OCR exploded this debacle to front page status, exposed for all to see.

All of Milam County should be very grateful for the continued efforts of this group and many others as well as for the excellent and informative reports in The Cameron Herald. This affects us all.

In the 1960s, San Antonio had a proposal for their own water reservoir. They voted it down. Our founders sought God for freedom from the iron hand of England. God heard their plea and gave them the most exceptional country, ever, with life, liberty, the pursuit of happiness and the freedom of owning property. There is only one God, It wasn't King George III of England nor is it the BRA.

The BRA should proffer large cities water conservation, water rationing, enlarging existing lakes (great idea), not "take" or steal private property for ever-expanding "public use" purposes. This proposed reservoir is NOT for public use. The victims of Milam County will get no use whatsoever, no just compensation, but will get further reduction of the tax base, less water, homelessness, lives turned upside down, and the history, beauty and richness of this valuable area gone forever.

Golden Rule: "Do unto others as you would have them do unto you."

How many water directors own property in this proposed reservoir area?

Karen Clark, Cameron

The Rockdale Reporter

August 13, 2015

September motion eyed to remove Gause reservoir

WACO—Residents of eastern Milam County, irate because a long-range water plan for Texas includes a reservoir which would inundate their property, returned to make their voices heard at a regional water board meeting last Wednesday.

No action on removing the Little River Off-Channel Reservoir from the Brazos G Regional Water Planning Group's long-range plans, but that's expected to change, perhaps as soon as next month.

Gary Westbrook, Post Oak Savannah Groundwater Conservation District manager, and a voting member of the 22-person Region G board, said he plans to make his motion to drop the reservoir from the entity's plans as soon as next month.

"The comment period for this plan runs through the end of August, so there is not an opportunity to make such a motion until after that period has expired."

That leaves the September Region G meeting as the first opportunity to make such a motion.

"I hope to be able to do so at that time," he said.

Last month Westbrook told *The Reporter* he was "very optimistic" the motion would be approved by the board.

PETITION—Opponents of what's called the Pin Oak Reservoir aren't taking any chances.

They continue to collect names on petitions opposing the reservoir, both in person and on-line, and hope to have 1,000 signatures before Saturday's deadline.

Opponents are also contacting State Sen. Charles Schwertner and State Rep. Marsha Farney to enlist their aid in fighting the reservoir.

The Rockdale Reporter

The Rockdale Reporter

June 4, 2015

RESERVOIR PROPOSAL

A reservoir has been proposed that would flood 4,343 acres in rural areas between Gause and Milano, Texas. This reservoir would provide water to urban areas and other communities within the state. There will be a meeting of the Stop Little River Off-Channel Reservoir group who oppose this proposal on Thursday, June 11 at 6:30 pm at the Gause Baptist Church Family Life Center. Please attend and help us organize an effort to save our land, historical landmarks, environmental resources, and homes. Send questions to: stop.little.river.ocr@gmail.com.

Property owners organize to oppose Little River Off-Channel Reservoir

■ By CURTIS CHUBB
Special to the Herald

NEWS
ANALYSIS

More than 100 people gathered at a church building in Gause last Thursday night to discuss the proposed Little River Off-Channel Reservoir.

What really struck me at the meeting was the evident respect that everyone had for each other. I believe that the meeting's can-do atmosphere was due to everyone believing that they could do anything if they stood shoulder-to-shoulder -including having the reservoir removed from the Brazos G regional water plans.

Although there are three coordinators of the Stop Little River Off-Channel Reservoir movement (Baumann Family, Conner Family, Wayne Fisher), the meeting place was swarming with people who wanted to help others write letters to Brazos G and legislators, who would take photographs of people's property which would then be presented to Brazos G, who would arrange rides to Waco for the Brazos G hearing on June 23, who had the petitions to sign, and the list goes on.

In short, this movement is a group effort and they all have a dog in the fight – that dog being their land or their friend's land. The three coordinators do their work in such a way that everyone feels equal to one and all – a mark of good leadership.

In fact, instead of using "group" to refer to the people fighting for their land near Gause, a more accurate term is "community."

The community's mastery of Facebook has resulted in a Stop Little River Off-Channel Reservoir Facebook page which not only spreads information fast, it also allows everyone to share their ideas and concerns – instantaneously.

On the community's Facebook page, you can find photos of people petting their Charolaise bull, Pin Oak Cemetery tombstones of people buried in 1869, grazing horses, arrowheads, ponds, and even the Gause meeting. But you can also find links to all types of information concerning the proposed reservoir. As I said, the community has mastered Facebook and has harnessed its immense power to bring people together and share knowledge.

I believe that the Gause meeting was not held to simply share information; it was held to allow people to understand that they are not alone in this fight.

See Page 2

OPPOSE

FROM PAGE 1

At the meeting, Mike Conner presented an overview of the proposed 4,300- acre reservoir and pointed out several interesting points. For example, he mentioned that the bonds used to build the reservoir would be repaid by selling the water from the reservoir. The problem that Conner pointed out is that it appears that no one needs the reservoir water for several years, so how could they repay the bonds.

Also, Conner pointed out that the estimated purchase price of water from the reservoir is based on pumping the maximum amount allowed. He suggested that the maximum amount of water would not be pumped annually which would increase the price of the water; a fact which is not mentioned in the Brazos G plan.

Wayne Fisher mentioned some of the advantages that the community has which will help in blocking the proposed reservoir. These factors include: the Milam County Commissioners Court's resolution to stop the reservoir; the presence of cultural resources such as the El Camino Real de los Tejas National Historic Trail and Pin Oak Cemetery (a designated Historic Texas Cemetery); and the presence of land owned and operated by the same families for more than 100 years which have been accepted into the Family Land Heritage Program sponsored by the Texas Department of Agriculture.

Fisher also discussed some unique legal avenues which could be used to thwart the building of the reservoir.

Melissa Shehane, a member of the Baumann family who serves as a central contact person, urged people to attend Brazos G's public hearing scheduled for June 23 (Tuesday). The announcement on Brazos G's website reads: "... notice is hereby given that the Brazos G Regional Water Planning Group ("Brazos G/Region G") will conduct a public hearing at 9 a.m., Tuesday, June 23, 2015 at the Brazos River Authority Office, 4600 Cobbs Drive, Waco, Texas 76710. The purpose of the hearing is to receive oral and/or written comments regarding the content of the Initially Prepared Brazos G Regional Water Management Plan."

Shehane requested that anyone wishing to speak at the hearing (five minutes are allocated to each speaker) contact her so that there could be some coordination of the speakers in order to minimize the repeating of the same ideas.

In addition to the Milam County Commissioners Court, Shehane said that resolutions against the reservoir construction had been requested from Gause ISD, Milano ISD, and the City of Milano City Council.

One of the Stop Little River Off-Channel Reservoir emails included a statement which provided the perfect ending for this report: "Remember we are stronger together than we are alone!"

STAY INFORMED ABOUT BRAZOS G PLANS

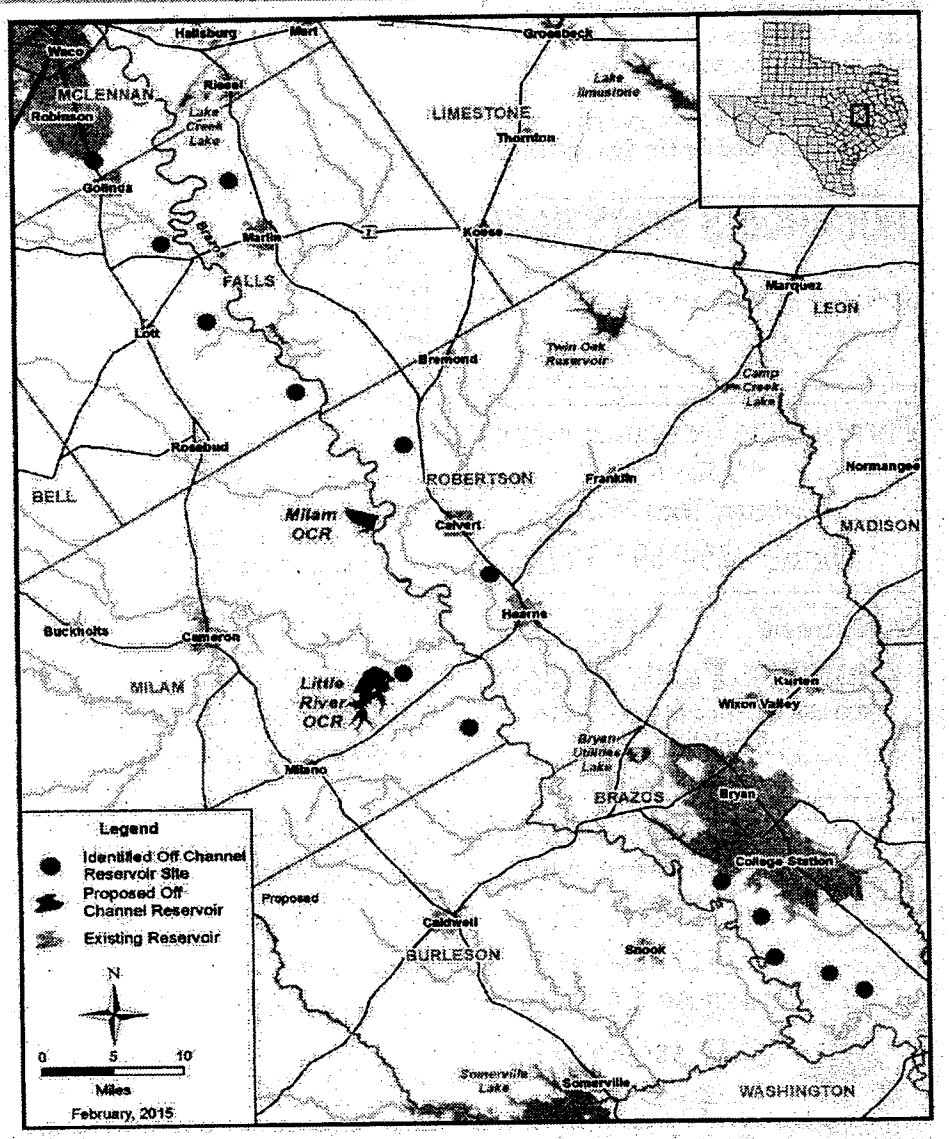
razos G Water Plan, Section ..ɔ - Main Stem Off-Channel Reservoirs (OCR) [http://brazosgwater.org/IPP-2016/Volume-II/4-8-MainStemOCR.pdf] should be of interest to landowners near the Brazos River in Falls, Milam, Robertson and Brazos Counties. Why? Because the Brazos River Authority (BRA) asked that off-channel reservoirs (OCRs) be built to store unappropriated river flow during wet times so they can release it downstream during dry periods.

Of the 14 OCR sites identified, most would be built over the recharge zones of our groundwater aquifers. Since these recharge zones are necessary for rainwater to infiltrate our aquifers, it does not seem wise to try to build reservoirs over them.

It is common to flood recharge zones during irriga- projects or build small ainment levies to redirect and/or slow down surface water over recharge zones so more water is absorbed into hese soils. However, the Main Stem OCR's purpose is to store Brazos River water for future se downstream. It means building 5' to 12' diameter

See Page 5

LETTERS TO THE EDITOR



Identified OCR Sites, Initially Prepared 2016 Brazos G Regional Water Plan I Volume II, New Reservoirs I Main Stem Off-Channel Reservoir

From Page 4

pipelines to divert the river water needed, then pumping it uphill to the OCR. Since the reservoir will primarily be filled with excess flow (i.e. water not already permitted to another BRA reservoir or customer or needed for environmental flow), it might be years between events that could refill this continually evaporating mud hole. There may also be times when senior water rights downstream may require the reservoir to give its bounty back to the river from whence it came regardless of its water level.

Annualized cost of a 1500 acre OCR & operation - $11 million/year for years to come.

Cost of botanical, aquatic, amphibian, and other wildlife habitats lost - irreplaceable.

Cost of letting Mother Nature do her thing – nothing!

Natural recharge of our underground aquifers to renew our local water supply – priceless!

Stay informed. Get engaged.

– Cathy Lazarus, Robertson County

Opinions

LETTERS TO THE EDITOR

Get involved and learn more about Brazos reservoir plans

The Brazos G Water Plan, Section 4.8 — Main Stem Off-Channel Reservoirs, which can be found at brazosgwater.org/IPP-2016/Volume-II/4-8-MainStemOCR.pdf, should be of interest to landowners near the Brazos River in Falls, Milam, Robertson and Brazos counties.

Why? Because the Brazos River Authority asked that off-channel reservoirs be built to store unappropriated river flow during wet times so it can be released downstream during dry periods. Of the 14 reservoir sites identified, most would be built over the recharge zones of our groundwater aquifers. Since these recharge zones are necessary for rainwater to infiltrate our aquifers, it does not seem wise to try to build reservoirs over them.

It is common to flood recharge zones during irrigation projects or build small containment levies to redirect and/or slow down surface water over recharge zones so more water is absorbed into these soils. The Main Stem Off-Channel Reservoirs' purpose, however, is to store Brazos River water for future use downstream. It means building pipelines to divert the river water needed, then pumping it uphill to the reservoir. Since the reservoir primarily would be filled with excess flow (i.e. water not already permitted to another river authority reservoir or customer or needed for environmental flow), it might be years between events that could refill this continually evaporating mud hole. There also may be times when senior water rights downstream may require the reservoir to give its bounty back to the river from whence it came, regardless of its water level.

Annualized cost of a 1,500-acre off-channel reservoir operation is $11 million a year for years to come. Cost of botanical, aquatic, amphibian and other wildlife habitats lost is irreplaceable. Cost of letting Mother Nature do her thing is nothing! Natural recharge of our underground aquifers to renew our local water supply is priceless!

Stay informed. Get engaged.

CATHY LAZARUS
Calvert

LETTERS TO THE EDITOR

No OCRs, let Mother Nature 'do her thing'

Dear editor,

Brazos G Water Plan, Section 4.8 - Main Stem Off-Channel Reservoirs (OCR) [http://brazos-gwater.org/IPP-2016/Volume-II/4-8-MainStemOCR.pdf] should be of interest to landowners near the Brazos River in Falls, Milam, Robertson and Brazos Counties.

Why?

Because the Brazos River Authority (BRA) asked that off-channel reservoirs (OCRs) be built to store unappropriated river flow during wet times so they can release it downstream during dry periods

Of the 14 OCR sites identified, most would be built over the recharge zones of our groundwater aquifers. Since these recharge zones are necessary for rainwater to infiltrate our aquifers, it does not seem wise to try to build reservoirs over them.

It is common to flood recharge zones during irrigation projects or build small containment levies to redirect and/or slow down surface water over recharge zones so more water is absorbed into these soils.

However, the Main Stem OCR's purpose is to store Brazos River water for future use downstream. It means building 5' to 12' diameter pipelines to divert the river water needed, then pumping it uphill to the OCR.

Since the reservoir will primarily be filled with excess flow (i.e. water not already permitted to another BRA reservoir or customer or needed for environmental flow), it might be years between events that could refill this continually evaporating mud hole.

There may also be times when senior water rights downstream may require the reservoir to give its bounty back to the river from whence it came regardless of its water level.

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Cost of botanical, aquatic, amphibian, and other wildlife habitats lost—Irreplaceable.

Cost of letting Mother Nature do her thing—Nothing.

Natural recharge of our underground aquifers to renew our local water supply—Priceless.

Stay informed. Get engaged.

Cathy Lazarus,
Robertson County
clzhome@msn.com

Region G water planners get earful from Milam County property owners

y CURTIS CHUBB
Special to the Herald

NEWS ANALYSIS

"I'm not nervous, I'm mad."

That's what Milam County landowner Mike Kornegay said at Tuesday's public hearing in Waco concerning the proposed Little River Off-Channel Reservoir (OCR) which would flood 4,300 acres of land and be used to supply water to other counties.

It all started in April with a few neighbors calling each other and talking about the Little River OCR northwest of Gause that they had heard mentioned. The next thing you knew, an entire community of people had organized as 'Stop Little River OCR.'

On Tuesday, the 'Stop Little River OCR' movement rolled into Waco to make their concerns directly to the Brazos G regional water planning group – the group that made the decision to include the Little River OCR in their plans.

And that is when 'Stop Little River OCR' became a force... a rip-snorting, fire-breathing force. If you were one of the 165 people at the public hearing, you understand what I mean.

If you were one of the 13 Brazos G members who looked as if in a trance during the hard-hitting presentations by 18 people, you understand what I mean.

The presenters came loaded for bear – they had honed their talks and didn't try to hide their deep-felt emotions which came bubbling to the surface. They made everyone in the audience feel what they felt inside. It was riveting.

The presentations showed others how people living northwest of Gause felt about their land ... felt about the people who came before ... felt about passing their land to their children ... and why they thought the reservoir is a really, really bad idea. The emotions were strong.

Almost every speaker started their talk by saying that they represented landowners who would be affected by the planned reservoir. This unselfish attitude is just another sign about how they work together as a community. The following quotes provide a global view of the main points made at the public hearing.

"We intensely oppose the construction of this reservoir at the presently proposed location ... Reason and fairness have to be part of the plan."

"Little River OCR is a very expensive, inefficient reservoir. There must be better alternatives. Take it out of the plan and replace it with conservation and reuse."

"Your plans will force our communities to dig up our ancestors ... The names of people buried in the Pin Oak Cemetery are not just numbers to be struck through. They represent our heritage and will not be forgotten."

"The reservoir will have unintended consequences on Gause ISD ... The present superintendent estimates that over ten years, the loss of tax revenues would run into the millions."

"These properties represent the beauty and romance of Milam County."

CURTIS CHUBB/Special to the Herald

Milam County residents gathered at the Brazos G Regional Water Planning Group public hearing in Waco Tuesday.

See Page 1

STOP

FROM PAGE 1

"Is constructing the reservoir worth its environmental impact on the wetlands and 60-foot tall Pin Oaks and Sycamores?"

"I work in Hutto and there is no conservation effort in Williamson County ... The land will be lost forever if flooded."

"We grow cattle and raise hay on the best pastures in Texas ... If forced to sell, it will have an emotional impact and cause financial hardship."

"While the recent floods were an 'act of God' – your plan for the reservoir is an 'act of an intrusive and abusive government takeover of private land."

"You have to consider the Native Americans who lived here ... A Rancheria Grande, a settlement of several tribes, existed in this area."

"Many of us have spent our savings to buy land and build a retirement home

MCFB Opposes Little River Off-Channel Reservoir

The Milam County Farm Bureau Board of Directors met on July 9 in their regular board meeting. During the meeting the MCFB Board of Directors, in an effort to protect and defend the private property rights of the land owners in Milam County, unanimously voted to oppose and support the opposition to the building of a reservoir and the taking of 4,300 acres of privately-owned land in Milam County by the Little River Off-Cannel Reservoir project of the Brazos G Regional Water Planning Group.

The directors noted several points regarding the proposed reservoir:

1) It is situated over a recharge zone for the Carrizo Wilcox aquifer,

2) The reservoir would not benefit Milam County residents,

3) The reservoir would obliterate a portion of the El Camino Real de los Tejas National Historic Trail, and

4) Would take privately-owned property that has been in Milam County citizens families for over one hundred years.

The Board of Directors of the Milam County Farm Bureau supports the deletion of this project from further consideration by the Brazos G Regional Water Planning Group.

– Durwood Tucker,
Milam County Farm Bureau

105.1 fm
The Ranch 105.1 fm Super Star Country for all of Central Texas and around the w

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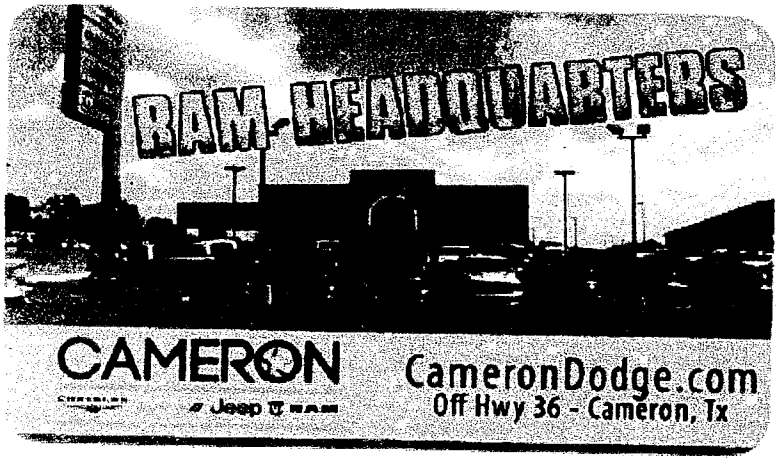


STOP LITTLE RIVER OFF-CHANNEL RESERVOIR PETITION

(CAMERON) The Stop Little River Off-Channel Reservoir campaign is collecting signatu testimonies from concerned citizens until August 15.

Several Milam county residents who are involved in the SLROCR campaign will be spe opposition to the Little River Off-Channel Reservoir at the Brazos G Regio Planning Group monthly board meeting on Wednesday, August 5. That scheduled to begin at 10:00AM at the Brazos River Authority in Waco. T for Wednesday`s meeting can be found online at brazosgwater.org. Fo or more information concerning the SLROCR campaign, email stop.little.river.ocr@gmail.com

Return to Headlines

FACEBOOK CAMPAIGN

Overview:

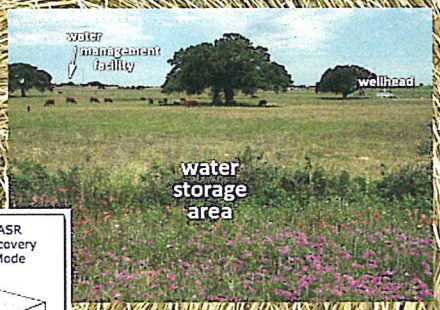
This section provides documentation from our Facebook Campaign. Slides cover testimonies from local citizens, recommendations on how to get involved, and educational resources. Please visit the Stop Little River Off-Channel Reservoir Facebook page to see posts and testimonies from over 490 members who are involved in our campaign. Weekly themes include:

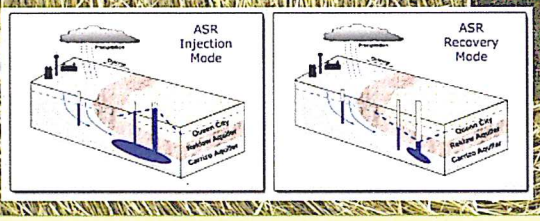
- Testimony Tuesday: Shares the voices of landowners and supporters
- What to do Wednesday: Highlights how citizens can get involved
- Thought-Provoking Thursday: Highlights educational resources and ideas

Little River Off-Channel Reservoir

STOP Little River Off-Channel Reservoir

Aquifer Storage and Recovery (ASR): "When there is extra Edwards water around, it can be injected into locally occurring sands and extracted during times of shortage. Water from other sources can also be transported and stored in the sands for later use" (The Edwards Aquifer, 2015, p.1).





QUESTION TO CONSIDER:
Wouldn't ASR be a better option than an off-channel reservoir?

Get Informed. Get Involved.

The Edwards Aquifer. (2015) *Aquifer storage and recovery.* Retrieved from http://www.edwardsaquifer.net/asr.htm

STOP Little River Off-Channel Reservoir

According to the Texas Historical Commission, there are over 50,000 cemeteries in Texas (Texas Historical Commission, 2015). However, only 1,706 are designated as Historic Cemeteries – which means the Pin Oak Cemetery is listed among 3% of historic cemeteries within approximately 171 million acres in the State of Texas.

Get Informed. Get Involved.

Texas Historical Commission. (2015). Historic cemeteries. Retrieved from http://www.thc.state.tx.us/preserve/projects-and-programs/cemetery-preservation.

STOP Little River Off-Channel Reservoir

XERISCAPE LANDSCAPING

"quality landscaping that conserves water and protects the environment...Traditional landscapes may incorporate one or two principles of water conservation, but they do not utilize the entire concept to reduce landscape water use effectively" (Welsh, Welch, & Richards, 2000, p.1).

QUESTIONS TO CONSIDER:

Wouldn't xeriscaping lawns be a better option for Texas communities, especially urban areas within the state? Why wait? See what Southern California is doing in the news report entitled "California Drought: Rebates Offered for Ripping Out Lawns Under Nation's Largest Program".

Get Informed. Get Involved.

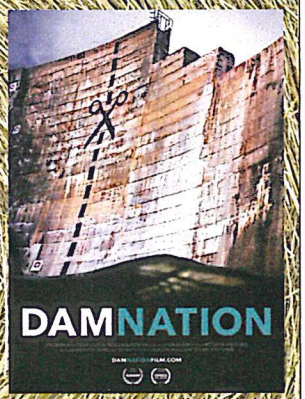
Welsh, D. F., Welch, W. C., & Duble, R. L.. (2000). Landscape water conversation...Xeriscape. Retrieved from http://aggie-horticulture.tamu.edu/extension/xeriscape/xeriscape.html.

STOP Little River Off-Channel Reservoir

Watch this fascinating documentary about dams. Although the landscape highlighted in this film is different than Texas, the message and historical lessons are powerful. Let's conserve our natural resources and not destroy our environment. Dams and reservoirs are not the answer for Milam County!

"Dams are built for four main reasons: flood control, irrigation, municipal water supply, and power production. Through improved technology and smarter planning, we can provide all four of these needs more effectively and without the negative cultural and ecological impacts of blocking an entire river system with a dam" (Damnation, 2014, p. 1).

"Reservoirs slow and broaden rivers, making them warmer, reducing water quality, and harboring destructive non-native species that disperse throughout the watershed and prey on and compete with native wildlife. The environmental, economic, and social footprint of a dam and reservoir may run the entire length of the river..." (Damnation, 2014, p. 1).



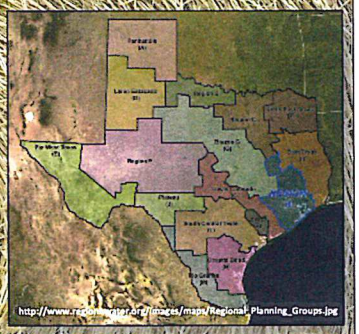
Get Informed. Get Involved.

Damnation. (2014). *FAQ.* Retrieved from: http://damnationfilm.com/.

STOP Little River Off-Channel Reservoir

UNDERSTANDING THE STATE WATER PLANNING PROCESS:

"In accordance with Senate Bill 1 passed during the 75th Texas Legislative Session, the **Texas Water Development Board** (TWDB) in Austin was authorized to divide the state into **16 regional water planning areas**" (Brazos G, 2015, p. 1). The Brazos G Regional Water Planning Group (Brazos G) and Region H are regional planning groups established by the TWDB to develop a regional water plan.



REMEMBER OUR TIMELINE

August 5: Brazos G Regional Water Planning Group Board Meeting
Now – August 15: We are gathering materials & letters
August 24: Final deadline for materials to be received by Brazos G
September 1: Final deadline for materials to be received by Region H
Fall: Brazos G Monthly Meetings
December 1: Decision made about LROCR (and the entire plan) by Regional Water Planning boards

THE FIGHT IS NOT OVER...
IT IS JUST BEGINNGING!
PLEASE SUPPORT OUR CAUSE

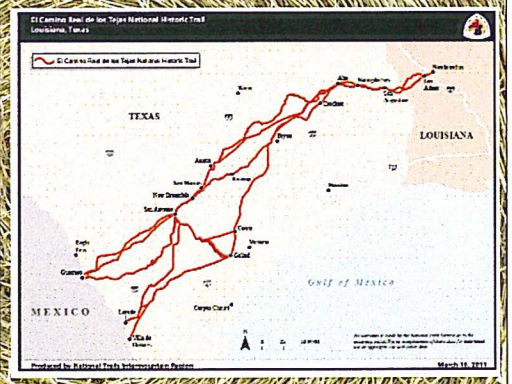
Get Informed. Get Involved.

Brazos G. (2015). *What is Brazos G?* Retrieved from: http://www.brazosgwater.org/.

STOP Little River Off-Channel Reservoir

"El Camino de los Tejas (the Royal Road to Tejas) National Historic Trail, a combination of historic routes (including Old San Antonio Road) totaling approximately 2,580 miles, extending from the Rio Grande near Eagle Pass and Laredo, Texas, to Natchitoches, Louisiana" (National Park Service, 2011).

The El Camino de los Tejas National Historic Trail runs through the proposed LROCR. This devastating destruction would inundate a portion of this national treasure.



Get Informed. Get Involved.

National Park Service. (2011). *El Camino Real de los Tejas national historic trail: Comprehensive management plan/environmental assessment.*

STOP Little River Off-Channel Reservoir

1) Private engineering and consulting firms involved in all aspects of plans, evaluations, scoring, remedies, bids, proposals, and construction.

2) Potential for conflict because of enlightened self-interest.

3) Decreased funding of Texas Water Development Board by 2011 Legislature forced Ground Water Conservation Districts to various private sector contractors.

4) This creates potential for non-uniform data collection, modeling, and analysis practices and methodologies.

FRONT PAGE DATA DIRECTORY EVENTS FESTIVAL MULTIMEDIA NEWSLETTERS TRIBTALK

THE TEXAS TRIBUNE

Private Sector Plays a Big Role In State Water Planning

by Neena Satija | March 13, 2015 | 11 Comments

Comment Republish Email Tweet Recommend

Until recently, Texas' state water plan wasn't much to look at.

Essentially a catalog of more than 3,000 water supply projects across the state that some government or another hoped to build, it was seen as nothing more than a wish list, compiled from the work of 16 regional planning groups every five years.

That changed in 2013 when lawmakers —

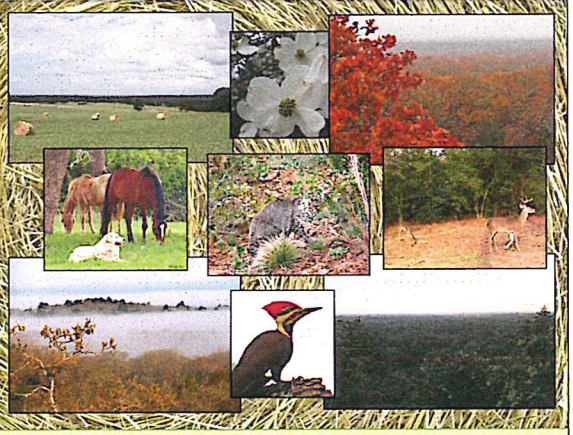
Get Informed. Get Involved.

Satija, N. (2015). Private sector plays a big role In state water planning. *The Texas Tribune*. Retrieved from: http://www.texastribune.org/2015/03/13/private-sector-plays-big-role-state-water-planning/.

STOP Little River Off-Channel Reservoir

Environmentalist and philosopher Aldo Leopold once said, "Harmony with land is like harmony with a friend; you cannot cherish his right hand and chop off his left."

State representatives & leaders, Brazos G, & Region H,... Please don't chop off Milam County's left hand!



Get Informed. Get Involved.

June 24, 2015

WHAT YOU CAN DO CHECKLIST!

- ✓ **Sign the petition!**
  - Local signatures needed!
    - Find locations in our FB Description
  - Share the online petition on your Facebook wall from change.org
- ✓ **Write a letter voicing your concerns!**
  - Email copy to stop.little.river.ocr@gmail.com
    - We are compiling all materials for Brazos G
  - Don't know what to say? Email us! We have examples and can help.
- ✓ **Call your state legislators!**
  - Senator Charles Schwertner
    - Capitol: 512-463-0105
    - Bryan: 979-776-0222
    - Georgetown: 512-863-8456
  - Representative Marsha Farney
    - Capitol: 512-463-0309
    - Georgetown: 512-863-7872

STOP **Little River Off-Channel Reservoir**

Every supporter PLEASE complete by August 15!

July 1, 2015

WHAT YOU CAN DO!

Seize the moment...pick up your phone

CALL NOW!

- Senator Charles Schwertner
  - Capitol: 512-463-0105
  - Bryan: 979-776-0222
  - Georgetown: 512-863-8456

- Representative Marsha Farney
  - Capitol: 512-463-0309
  - Georgetown: 512-863-7872

STOP **Little River Off-Channel Reservoir**

Every supporter PLEASE complete by August 15!

July 8, 2015

WHAT YOU CAN DO!

Write letters to Brazos G & Region H!

What you need to know:

- Brazos G has LROCR as a proposed plan
- Region H has LROCR as an alternative plan
- We need a critical mass of letters to voice our opposition

Who do I address my letter to:

Mr. Trey Buzbee, Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

Hon. Mark Evans, Chair
Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

Write two separate letters voicing your concerns:

- Email copy to stop.little.river.ocr@gmail.com
- We are compiling all materials for Regions G & H
- Don't know what to say? Email us! We have examples and can help.

STOP **Little River Off-Channel Reservoir**

Every supporter PLEASE complete by August 15!

July 15, 2015

WHAT YOU CAN DO!

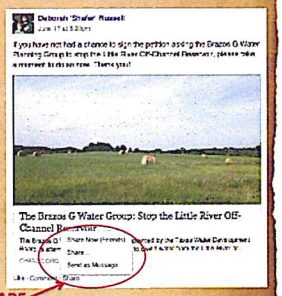
Sign the Petition Online or Locally

What you need to know:

- We need a balance of hard copy signatures & online signatures of different people. Learn more here & in the comments!

Online Petition on change.org Share Everywhere:

- Post on your Facebook wall and invite your friends to sign-it. See how to the right!
- Email your network. Share by copying the URL in your message!
- Use all Social Media outlets to help our cause!



STOP **Little River Off-Channel Reservoir**

Every supporter PLEASE complete by August 15!

July 22, 2015

WHAT YOU CAN DO!

Sign the Petition Locally or Online

What you need to know:
We need a balance of hard copy signatures & online signatures of different people. Learn more here & in the comments!

Visit the following locations to sign the petition:

- **GAUSE**: Coats Grocery, Gause Baptist Church
- **CAMERON**: M&M Farm Supply, Anderle Lumber, Cameron Seed, Milam Grain, Malers Furniture and Appliances, True Value (ace hardware) Cameron VFD, & Attorney Mark Humble's office, Milam Co. Livestock Exchange, Cameron Tire
- **ROCKDALE**: Midway Grocery
- **MILANO**: Crowe Co., Milano Livestock Auction
- **CALVERT**: Calvert Livestock Auction

STOP **Little River Off-Channel Reservoir**

Every supporter PLEASE complete by August 15!

July 29, 2015

WHAT YOU CAN DO CHECKLIST!

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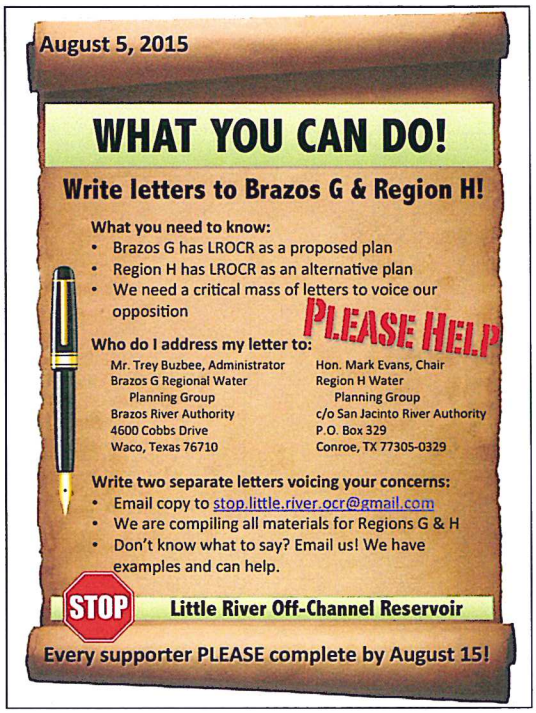
    - Georgetown: 512-863-8456
  - Representative Marsha Farney
    - Capitol: 512-463-0309
    - Georgetown: 512-863-7872

DO IT NOW!

STOP **Little River Off-Channel Reservoir**

Every supporter PLEASE complete by August 15!


August 5, 2015
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Hon. Mark Evans, Chair
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c/o San Jacinto River Authority
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Conroe, TX 77305-0329
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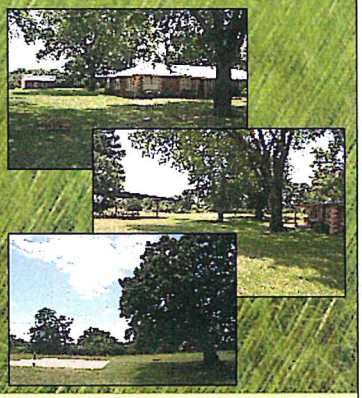
• Don't know what to say? Email us! We have examples and can help.
STOP
Little River Off-Channel Reservoir
Every supporter PLEASE complete by August 15!

STOP Little River Off-Channel Reservoir

"My granddad bought the property in 1914. It has remained in the family name. I have deeded the property to my 4 children. Currently 2 of them live on the property and 2 of them hope to build on the property in the coming years. If this reservoir goes through there is no way that our family legacy will live on."

Melvin Wall, June 2015



"The Light of Christ Ministry building (pictured to the right) was a vision that my wife and I had 12 years ago for an outreach to the churches and people in the area. It is listed as a non-profit organization and the main building is a house that my father lived in. It has been used by a number of churches in the area ranging from Waco to Austin. I don't know where there would be another place that could be as peaceful in the state of Texas."

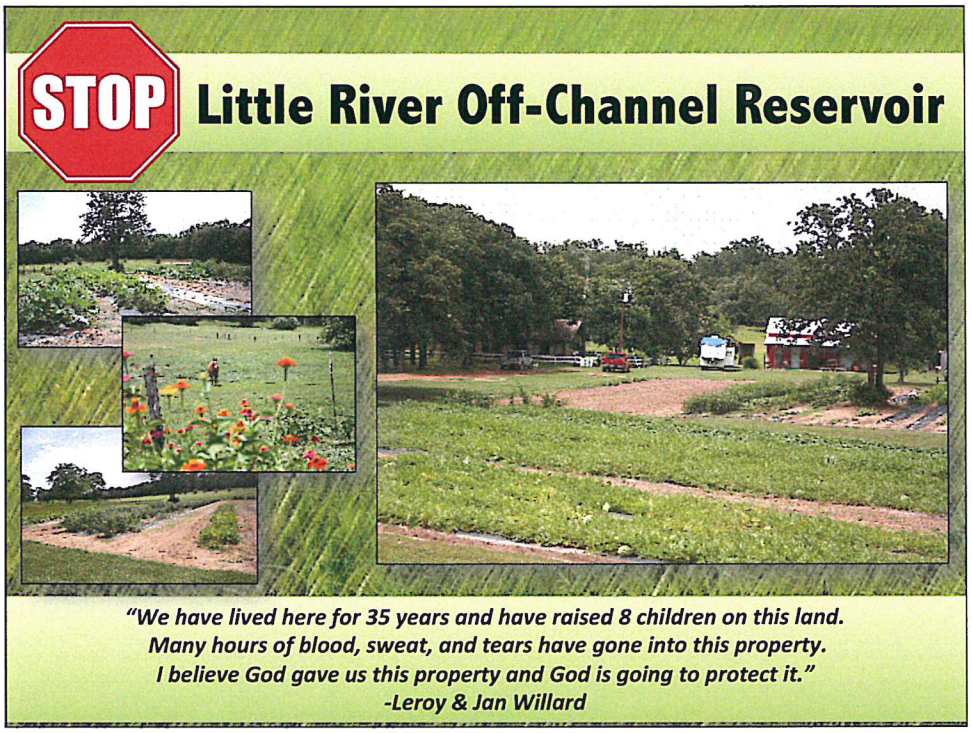
STOP Little River Off-Channel Reservoir

How Soil and Water Conservation Improve Water Quality

Soil and water conservation is vital for life and improved water quality. Soil conservation is the protection of fertile topsoil from erosion by wind and water and the displacement of nutrients in the soil. Water conservation is the preservation, control, and development of water resources. I'm lucky enough to see soil and water conservation every day because my dad uses no till farming practices on his farm.

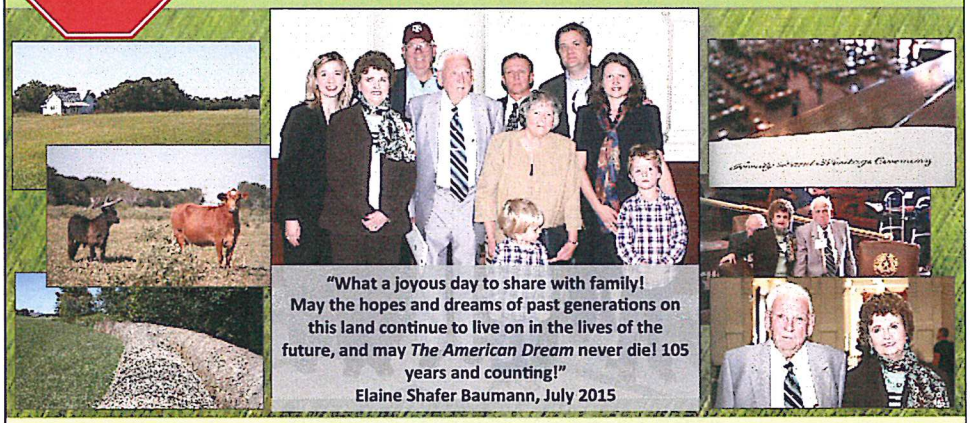
Excerpt from Macey Hahn's 1st Place Essay
State Soil & Water Conservation Contest
13 and under category

"We are the 5th generation on our family's land.
We are the future of agriculture and the great state of Texas. We matter too!"
-Lily, Macey, Braden, Will, & Kellan


STOP
Little River Off-Channel Reservoir
"We have lived here for 35 years and have raised 8 children on this land.
Many hours of blood, sweat, and tears have gone into this property.
I believe God gave us this property and God is going to protect it."
-Leroy & Jan Willard

STOP
Little River Off-Channel Reservoir
"We have run cattle here over the past 20 plus years. This fishing hole (top left) has a lot of great memories. This is where my dad took me, where I took my kids, and now I take my grandkids here."
Jerald & Joan Wise, June 2015

STOP Little River Off-Channel Reservoir



"What a joyous day to share with family! May the hopes and dreams of past generations on this land continue to live on in the lives of the future, and may *The American Dream* never die! 105 years and counting!"
Elaine Shafer Baumann, July 2015

"The majority of my family has spent their lives in two very important vocations, agriculture and education. The values of both were instilled in me from an early age. My husband and I are both educators and proud Texans and we share a love for the history of our great state. When I learned our family was to be honored by the Texas Land Heritage program it was very important to both of us that our two young sons be present at the ceremony. They were there the day that the hard work and sacrifice of generations before them were recognized. Agriculture is a career that is worthy of honor and respect. Generations before them labored to provide a better life for their family. How heartbreaking and infuriating to think that it might all be covered in water. I believe there are better alternatives to the reservoir that are yet to be fully pursued. The sacrifice of our unique Texas culture is not a matter to be entered into without exploring every possible option." -Deborah Shafer Russell, July 2015

STOP Little River Off-Channel Reservoir

"God has truly blessed our family with such a beautiful place to call home. I think I know why God rested on the seventh day. I believe that it took the Lord a full day to sculpt the rolling hills and lush meadows that we are fortunate enough to call home. All of the area that is in this lake proposal is just as beautiful as what we own. This has been in our family for over 100 years and cannot be replaced. I am pleading with you to not take away what each one of us holds so dear, please!"
Gary & Lisa Kornegay, July 2015

STOP
Little River Off-Channel Reservoir
"My family and I are standing in front of our home....a home that is located on land that has had 5 generations of Walls raised on it, a home that has been in the Wall name for 100 years, a home that my 3 children know as their home, a home where my wife and I plan to grow old, a home that will be under 30-40 feet of water if the LROCR passes, and a home that they plan to destroy."
Michael & Stacey Wall & Family, July 2015

Dan Fischer

1808 22 Hills Road
Gause, TX 77857-7321
d-r@usa.com

RECEIVED
AUG 14 2015
Texas Water Development Board

August 10, 2015

RECEIVED
AUG 17 2015
TEXAS WATER
DEVELOPMENT BOARD

Mr. Kevin Patteson
Executive Administrator
Texas Water Development Board
P.O. Box 13231
Austin, TX 78711-3231

Dear Mr. Patteson:

I am writing to strongly oppose the use of the Little River Off-Channel Reservoir as a means of meeting planning requirements for the Brazos G Regional Water Planning Group and the Region H Water Planning Group, and any other group that thinks this is a viable solution to long term water needs. I am an affected landowner and will lose most of my land if this lake is ever built. I hope you will exercise your influence to stop all consideration of the Little River Off-Channel Reservoir as part of the plan.

There are a number of issues I have with this proposal and hope you are open to considering these facts in your deliberations.

First, are you aware that this proposed site is right on top of our aquifer recharge outcrop zones? I am no expert, but I seriously doubt that it will even hold water since it would probably drain directly into our aquifer (which in and of itself would not be a bad thing!). But do you really want to spend millions of dollars of somebody's money only to have the lake not hold water? I would think the engineering firm would have recognized this problem from the beginning.

Why locate the reservoir in Milam County? Why would you consider taking land away from people in Milam County simply to provide water to some other county? If they want the water for another county, then let them have the lake in their county. It would cost less to operate because you could just pipe the water directly to their location from the rivers rather than store it somewhere in between (i.e. Milam County) and have to pipe the water twice

In addition, by taking this land for the reservoir, they will be removing the land from the Milam County tax rolls. That means Milam County citizens will be paying higher taxes for absolutely no benefit. Again, put it in the county it serves. In essence, what they are doing is illegally taxing me and the other Milam County residents by raising my taxes for the benefit of someone else.

Did you know there is a Federal Historic Trail going through the lake site? Where does a group get its authority to flood a Federal Trail? Again, I would think the engineer could have figured that out in advance!

The lake will be inundating a cemetery having, I am told, over 130 graves. Where do they plan to move it? How would you feel if it were your family cemetery that was being moved and you had no choice in the matter? Once again, put the lake in the county it will serve and, if a cemetery is involved there, then they could deal with it because they would also be getting a benefit in return. Don't you think these types of issues should be resolved BEFORE they get public input? Otherwise, since they have not determined what land will be condemned for the cemetery, they are not giving the people in the area appropriate notice.

Many people in this area will be adversely affected by this proposal. Many have lived here all their lives and many of us moved here for retirement. The beauty of this area is not something that can be duplicated elsewhere, so they will certainly be ruining the lives of these individuals. I know that could be true for any site you choose, but again, this lake is not for us! It is for another county. Let them have it.

As far as I know, every political entity in this area has passed resolutions opposing this lake. Does that matter to you or not?

Placing the lake in the proposed location would involve a substantial rerouting of a Farm to Market road (FM 2095). I have no idea how they plan to reroute it, but that has the potential of negatively affecting a large number of people, many of whom would not be area residents. It would also involve rerouting a county road as well. In all probability, they will be making it much more difficult for residents in the southeastern part of the county to get to the county seat and the central part of the county.

This lake will be an eyesore and probably will produce an obnoxious odor most of the time. It will seldom be full and most of the time would be quite low. This would leave a lot of mud flats that would do nothing but stink and look terrible. The ebb and flow of the water into and out of the lake could also adversely affect the habitat around the lake once it is built. What is shoreline or lake front one day is mud the next.

It is my understanding that not only are they taking away the land for the lake itself, the plan tends to gloss over the fact that they will also condemn approximately the same number of acres to serve as a location for the displaced animals and wildlife in the area. Where will that land be? Their maps do not show it that I can find. This is not treating the people in the area fairly. They need to show that land as well as the land for the lake itself. Otherwise, they are not being honest with the people in this area.

I am under the impression that the way they arrive at the amount of water needed is by using the lowest annual rainfall year and then assuming that year is the basis for determining the amount of water needed by the geographic area they are *attempting to* help. If that is the case, then the methodology is seriously flawed because that means they are proposing a solution to a problem that does not exist and one that has an

extremely low probability of ever existing again. Sure, there are record breaking years for least or most rainfall, but those are extremes. One should be planning for what is probable and NOT something that is a worst case scenario and one that is not likely to last long or to be repeated. I guess that would be ok if you had all the money in the world and there were no negative impacts. But, to create this solution based on a single worst year, or even a number of "worst" years, they are not planning properly. That just does not make any sense.

I have been on many boards in my life and I know how boards make decisions. It is very easy to sit in the boardroom, hear presentations, and then vote to do something because it sounds good at the time. When it does not affect you, it gets easier and easier to take something away from somebody else. You can even try to justify it as being for the common good. Well, I think the boards need to think abut the personal side of the equation and balance the benefits against the negative impacts. How would you feel if it were to be on your land? Would you want to lose your land because some group of people, who probably have never even been to the site, use the worst year in history to assume that is what the average need will be, plus select a location that won't hold water and is not even close to the people to be served, and one that covers up a Federal Historical Trail? This Little River Off-Channel Reservoir just does not make any sense as currently proposed. It does not pass the common sense test. There is no "common good" for the citizens in this area and it appears you have a solution in search of a problem.

I respectfully ask that you use your influence to keep this proposal from being part of the plan.

Yours Truly,

Dan Fischer

Little River Off Channel
Reservoir Comments
Scanned Aug 18, 2015

The Little River Off-Channel Reservoir - Environmental Impact

June 23, 2015 Public Hearing

Good Morning, Board Members. I am Joyce Conner. My husband Mike and I are relatively new to Milam County, but "we got here as fast as we could." Mike's great grandparents settled in Grimes County and mine in the Hill Country. We are blessed that we found such a beautiful area in between our two large extended families. And, it only took us 13 years of searching!

We live on just over 700 acres in the reservoir-targeted area, and are sure to lose 85% of it to the flooding. And maybe more if it is needed for a buffer and mitigation.

And, there will definitely be mitigation. We practice wildlife management and, as documentation, we have accumulated over 40,000 photos of plants, animals, and management practices that we have taken on our property in the last 12 years. These were culled from at least double that number. About 75% could have been taken anywhere in the proposed reservoir area.

We are committed to be stewards of this land. As stewards, we are dedicated to its protection, restoration, and improvement. I hope to speak today for all of the other landowners who treasure Milam County land, animals, and plants.

Some of the things we have done:

- Invested over $200,000 (and countless hours of labor) in wildlife management equipment, repairs, materials, and projects;
- Had designed a custom "green building" house by our architect son to reduce impact on the environment;
- Retrofitted two man-made water ponds;
- Maintained **over ½ mile of pristine Alligator Creek and an undeveloped riparian zone;**
- Restored ~75 (out of ~600) acres of native oak forest by using mechanical and chemical means to reduce the woody understory;
- Made and/or maintained ~20 miles of trails and meadows for wildlife and data collectors;
- Removed invasive species – over 200 Chinaberry trees (see Texasinvasives.org), and many feral hogs
- Participated with state, county, environmental, and federal agencies on:

    - **Replanting pastures with native grass seed for Upland Birds**
    - **Restoring wooded areas under a conservation easement agreement for the endangered Houston Toad**

- **Collected and reported data from:**

    - 40,000 plant and animal wildlife photos
    - Biannual bird surveys by Audubon (see eBirds.org)
    - Herpetology survey of Alligator Creek and pond areas; A&M to plan additional surveys

- 40 Eastern Bluebird nest boxes along perimeter of land (see nestwatch.org, Cornell University Lab of Ornithology)
- Box Turtle Watch and Project Feeder Watch (see feederwatch.org, Cornell University Lab of Ornithology)
  Also, A&M classes have been invited to help with identification of historical sites and artifacts.

Now we find that our land may be confiscated to construct a reservoir of water. Is destruction of the surface land for this purpose a necessary solution?

"Reservoirs are inefficient ... due to evaporation, and the major ones lose as much as 2.3 trillion gallons of water per year, according to the Texas Water Development Board" (The Oregonian, June 18, 2015). In addition, we know they are of extremely high cost to utility users, landowners, wildlife, environment, and communities.

And there are now alternative solutions (taken from San Antonio Water System, SAWS.org) which can be implemented as long as we consider any unintended environmental impacts:

- **Ocean and groundwater desalination**
- Aquifer Storage and Recovery
  - Environmentally friendly method of storing aquifer drinking water in a designated aquifer.
  - Water stored during the year can be used during dry, hot months.
  - Maximizes use of pumpage allocations from the aquifer throughout the year.
  - Underground storage means no evaporation.
  - Less vulnerable to contamination than surface storage.
  - Most land directly above the underground reservoir can continue its prior use.
- New conservation paradigms

It is also time to rethink everyone's water use. Implement stricter conservation practices and educate citizens on how and why it is important to save water. Some examples are:

- Use native drought resistant plants or xeriscaping;
- Reduce large fields of exotic grasses in public areas;
- Reduce impervious cover

For the Environment, please revise your water plans and remove Little River Off-Channel Reservoir from them. Thank you.

Joyce and Mike Conner
12374 FM 2095 – physical address
P.O. Box 8 – mailing address
Gause, TX 77857
512-368-3618 ranch phone
512-659-0308 Joyce cell; 512-740-8702 Mike cell

Environmental Impact of Reservoirs on Texas Lands

Joyce Conner, Cedar Hill Ranch, Gause, TX 77857 8/4/15

Depending on where you live, when you leave your house, you will travel over brooks, creeks, and/or rivers as you go about your daily business. Each stream is part of an intricate network of water that flows across the land. Each tiny rivulet of water feeds into the next larger one downstream, and then into the following larger one downstream, and on and on until (and if) the water finally finds its way into the sea.

The way we care for the land around each stream that feeds water into it (called its watershed) determines the health of the whole country. If we pollute or negatively impact the water in even the smallest stream, it will likely affect all of the others along its path. It is easy to visualize that if we dirty our water upstream, this will affect the cleanliness of the water downstream. A lot of money is spent trying to clean up and repair watersheds.

But, sometimes we forget that keeping the water clean or available for people is not our only goal.

Watersheds also create unique ecosystems that protect and sustain our wildlife. *The Practice of Watershed Protection*, a compilation of information about watershed research and trends funded partly by the U.S Environmental Protection Agency, states that "small streams and their riparian areas are the single most important habitat for both terrestrial and aquatic wildlife in any landscape." They provide life-giving water and "create a critical wildlife corridor that links downstream habitats with upland ones." That "corridor" is the home of many unique plant and animal species, whether in the stream or on the land.

In addition, the stream and its riparian area serve to filter out unwanted materials like carbon, sediment, and certain nutrients, thus leaving the water and surrounding land in a cleaner more healthy state.

We tend to forget that the small streams are so important (giving more of our attention to the large rivers, lakes, and estuaries downstream) but research has shown that they are best left in their natural conditions. In this way they can best serve plants, animals, and people upon which they depend.

Every time we modify a watershed, riparian area or stream, we negatively impact its benefits. Whether we cut down the forests, remove native grasses, construct channels to move water more quickly through urban areas, install large areas of impervious cover, or flood the ecosystem with a reservoir, we are negatively affecting the whole system.

The Brazos G proposed water plan evaluates 14 new reservoir options to meet future water needs. In this report environmental impacts are listed and weighed by some cost analysis process. What is missing is the impact of losing all of these forested valleys, all of these springs, all of these primary watersheds -- all these very unique ecosystems from our Texas rural areas.

12374 FM 2095, Gause, TX 77857 P.O. Box 8, Gause, TX 77857 512-368-3618 hm

The Little River Off-Channel Reservoir plan does not consider the uniqueness of the watershed in Milam County that would be destroyed by the reservoir. It would destroy a number of beautiful small streams and their mostly pristine riparian areas. For example, this reservoir would flood about 7/8 of pristine Alligator Creek and its mostly undisturbed riparian area. It would also flood much of Yellow Rabbit Creek and a unique dogwood forest in its watershed.

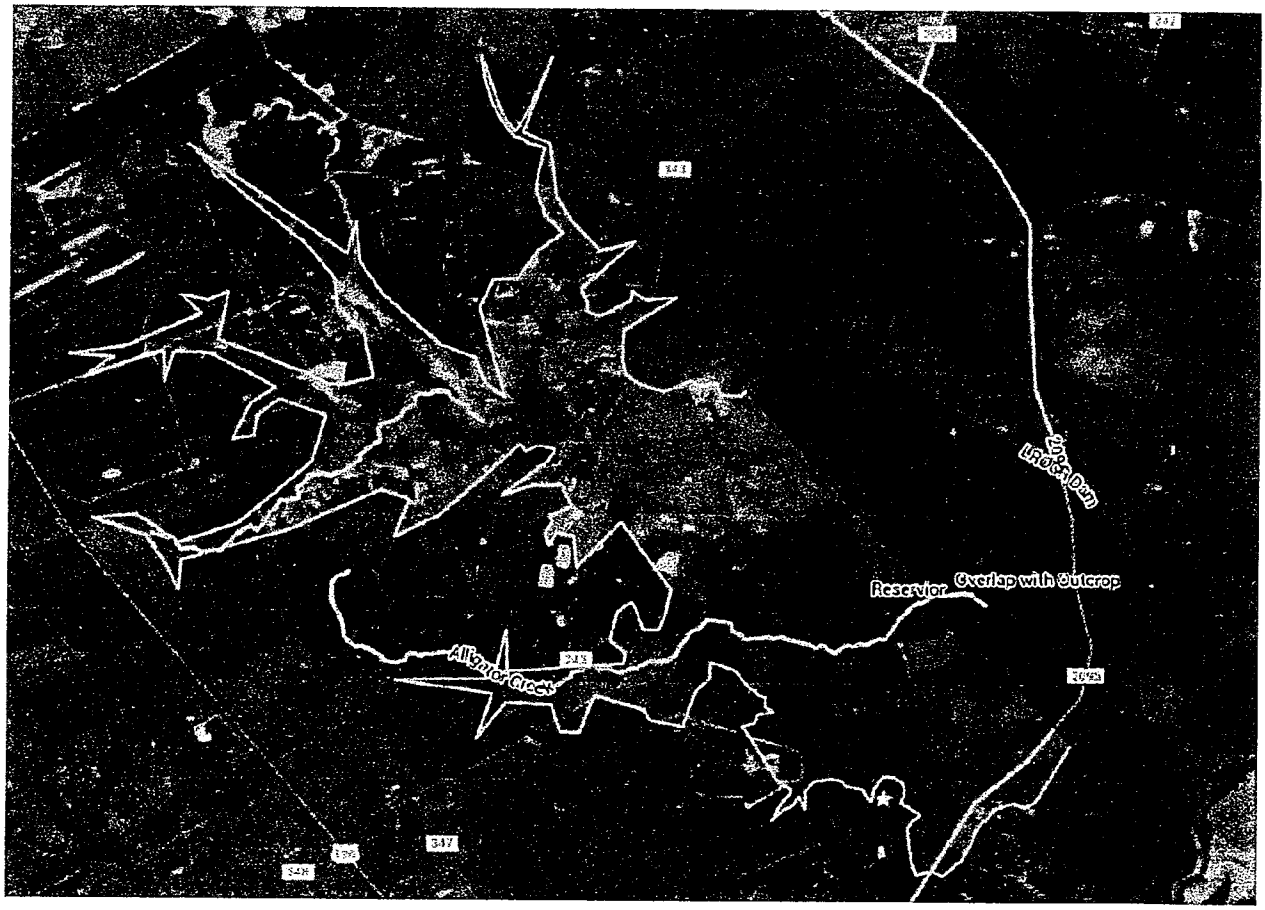
A number of the owners in the proposed area practice wildlife management on their land. Many of the creeks are protected and in most cases left as natural as possible. I would suggest that the Alligator Creek/Yellow Rabbit Creek riparian areas are two of the most pristine in the State.

Janice Bezanson with the Texas Conservation Alliance (formerly the Texas Committee on Natural Resources) states, "We are opposed to all unneeded reservoirs or reservoirs for which there is an economically feasible lower-impact alternative."

You can argue that off-channels can provide a water supply while causing less environmental damage than a larger on-channel reservoir. But stricter water conservation, water reuse and other low-cost water supply options **should be the preferred strategies** in any plan that hopes to meet the water needs of people while also minimizing the impacts on our Texas environment. For, once these valleys are flooded, they will be irrevocably damaged. We Texans will have lost a valuable part of our state forever. (At the end of this document is a map showing two of the creeks that will be affected.)

Please remove this reservoir from your plans. Thank you.

12374 FM 2095, Gause, TX 77857 P.O. Box 8, Gause, TX 77857 512-368-3618 hm



12374 FM 2095, Gause, TX 77857 P.O. Box 8, Gause, TX 77857 512-368-3618 hm

Milam County

David L. Barkemeyer
County Judge
102 South Fannin Ave.
Cameron.Texas 76520

Phone 254-697-7000
Fax 254-697-7002
info@milamcounty.net

At a meeting of the Commissioner's Court of Milam County, Texas held at Cameron, Texas on June 8, 2015:

RESOLUTION OPPOSING THE CREATION OF A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, the Brazos G. Water Planning Group and/or the Brazos H. Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas, to export the water to other Counties, and

WHEREAS, this devastating action would take historical land, impact agriculture, remove wild life and take away precious natural resources including farms and ranches that have been owned and operated by Milam County families for generations, and

WHEREAS, on October 18, 2004 the National Trails System Act was amended by the United States Congress to designate El Camino Real De Los Tejas as a National Historic Trail, and

WHEREAS, this National Historic Trail crosses properties that have been designated as sites for construction of the Little River Off-Channel Reservoir, and

WHEREAS, this Reservoir would also flood and destroy the Pin Oak Cemetery which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission, and

WHEREAS, construction of the Little River Off-Channel Reservoir would have harmful biological impacts upon existing and endangered and threatened species of concern for Milam County, and

WHEREAS, this proposed project would lead to the destruction of significant parts of Farm Road 2095 and prevent direct access for the Gause and Hanover communities to and from Cameron, Texas, and,

WHEREAS, creation of this Reservoir would have an adverse effect upon the tax bases of the Gause Independent School District, the Milano Independent School District and of Milam County, Texas, and,

WHEREAS, a significant portion of valuable agricultural land would be covered that is protected under the Federal Farmland Protection Policy Act, and,

WHEREAS, the proposed reservoir would provide no significant economic or recreational value for Milam County,

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Commissioner's Court of Milam County, Texas that it opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and/or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration.

David Barkemeyer, Milam County Judge

Richard "Opey" Watkins, Commissioner, Pct 1

Donald Shuffield, Commissioner, Pct 2

John Fisher, Commissioner, Pct 3

Jeff Muegge, Commissioner, Pct 4

At a meeting of the Gause Independent School District School Board held at Gause, Texas on June 9th, 2015:

RESOLUTION OPPOSING THE CREATION OF
A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, the Brazos G. Regional Water Planning Group and/or the Brazos H. Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas, to export the water to other Counties, and

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WHEREAS, this National Historic Trail crosses properties that have been designated as sites for construction of the Little River Off-Channel Reservoir, and

WHEREAS, this Reservoir would also flood and destroy the Pin Oak Cemetery which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission, and

WHEREAS, construction of the Little River Off-Channel Reservoir would have harmful biological impacts upon existing and endangered and threatened species of concern for Milam County, and

WHEREAS, this proposed project would lead to the destruction of significant parts of Farm Road 2095 and prevent direct access for the Gause and Hanover communities to and from Cameron, Texas, and

WHEREAS, creation of this Reservoir would have a adverse effect upon the tax bases of the Gause Independent School District, the Milano Independent School District and of Milam County, Texas.

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Commissioners Court of Milam County, Texas that it opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and/or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration.

APPROVED THIS 9th DAY OF JUNE, 2015.

Bill Jones
President

Linda Hoppe
Vice President

Kathy Turner
Secretary

Henry Bonorden
Member

Melanie Rasco
Member

Judy Roper
Member

Tammy Smith
Member

At a meeting of the Milano City Council held at Milano, Texas on June 15, 2015:

RESOLUTION OPPOSING THE CREATION OF
A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, the Brazos G. Regional Water Planning Group and/or the Brazos H. Regional Water Planning Group, appointed by the Texas Water Development Board, is/are proposing a plan to divert water from the Little River or Brazos River and construct an "Off-Channel Reservoir" that would flood 4,343 acres of private land in the area between Texas Highway 79 and FM 2095 near Gause in Milam County, Texas, to export the water to other Counties, and

WHEREAS, this devastating action would take historical land, impact agriculture, remove wild life and take away precious natural resources including farms and ranches that have been owned and operated by Milam County families for generations, and

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WHEREAS, this National Historic Trail crosses properties that have been designated as sites for construction of the Little River Off-Channel Reservoir, and

WHEREAS, this Reservoir would also flood and destroy the Pin Oak Cemetery which dates to the 19th Century and has been designated a Historic Cemetery by the Texas Historical Commission, and

WHEREAS, construction of the Little River Off-Channel Reservoir would have harmful biological impacts upon existing and endangered and threatened species of concern for Milam County, and

WHEREAS, this proposed project would lead to the destruction of significant parts of Farm Road 2095 and prevent direct access for the Gause and Hanover communities to and from Cameron, Texas, and

WHEREAS, creation of this Reservoir would have a adverse effect upon the tax bases of the Gause Independent School District, the Milano Independent School District and of Milam County, Texas.

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Milano City Council of Milano, Texas that it opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G. Regional Water Planning Group and/or Brazos H. Regional Water Planning Group proposals be amended to delete this particular project from their plans or from further consideration.

APPROVED THIS 15 DAY OF JUNE, 2015.

Billy Barnett
Mayor

Carol Newman
Mayor Pro Tem

Connie Seelke
Alderwoman

David Gunnels Jr.
Alderman

Henry Dykes
Alderman

Rodney Gage
Alderman

El Camino Real de los Tejas
NATIONAL HISTORIC TRAIL ASSOCIATION

Board of Directors
George Altgelt
Maureen Brown
Linda Curtis-Sparks
Gary Dunnam
Chief Rufus Davis
Lucile Estell
Joy Graham
John Kisalus
Duke Lyons
Henry Mayo
Carl Mica
Irene Ramos
Christopher Talbot
Maureen Winn
Sarah Zenaida Gould

Executive Director
Steven Gonzales

Contact
P.O. Box 41286
Austin, Texas
78704
P: 512-850-9073
F: 512-451-3110

June 20, 2015

Brazos G Regional Water Planning Group
Attn: Mr. Wayne Wilson, Chairman
4600 Cobbs Drive
Waco, Texas 76714

Subject: Proposed Little River Off-Channel Reservoir's Effect on El Camino Real de los Tejas National Historic Trail

Dear Chairman Wilson and Commissioners

This letter serves as notice to the Brazos G Regional Water Planning Group about El Camino Real de los Tejas National Historic Trail Association's opposition to the proposed Little River Off-Channel Reservoir in Milam County, Texas.

El Camino Real de los Tejas means "The Royal Road of the Tejas Indians." Historically, the road connected Mexico City to Los Adaes, the first capital of Texas. This allowed Spanish influence to spread into the province. The road also allowed Anglo settlers to head west into Texas in the 1800s, and it was a major artery of trade and culture. The trail created the cultural diversity of Texas that we know today.

On October 18, 2004, El Camino Real de los Tejas was designated as a National Historic Trail and part of the National Trails System. This makes El Camino Real part of a unique group of trails that have been deemed "nationally significant" by the US Congress. So if you can imagine all of the history of our country, only nineteen events have been deemed "nationally significant," and this trail that led to the founding of Texas is one of them!

El Camino Real de los Tejas National Historic Trail Association is an advocacy group that seeks to protect the historic integrity of the trail, to educate the public about its significance, and to promote resource development, interpretation, and tourism along its path.

We work closely with the National Park Service, Texas Historic Commission, Texas Parks and Wildlife Department, the Texas Department of Transportation and others to identify, protect, and develop the trail.

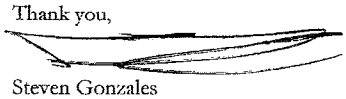
The proposed Little River Off-Channel Reservoir would inundate a stretch of El Camino Real de los Tejas National Historic Trail in Milam County, in the vicinity of Gause, Texas. This action would forever alter a nationally significant roadway and destroy an elemental part of our state's history. The Camino Real led to the founding of Texas. In fact, it is easy to say that we would not be calling Texas "Texas" without it.

Therefore, our association, along with the citizens and elected representatives of Milam County, ask that you reconsider this proposed inundation, as we hope that you will see that

the project will do great harm to this irreplaceabale historic resource.

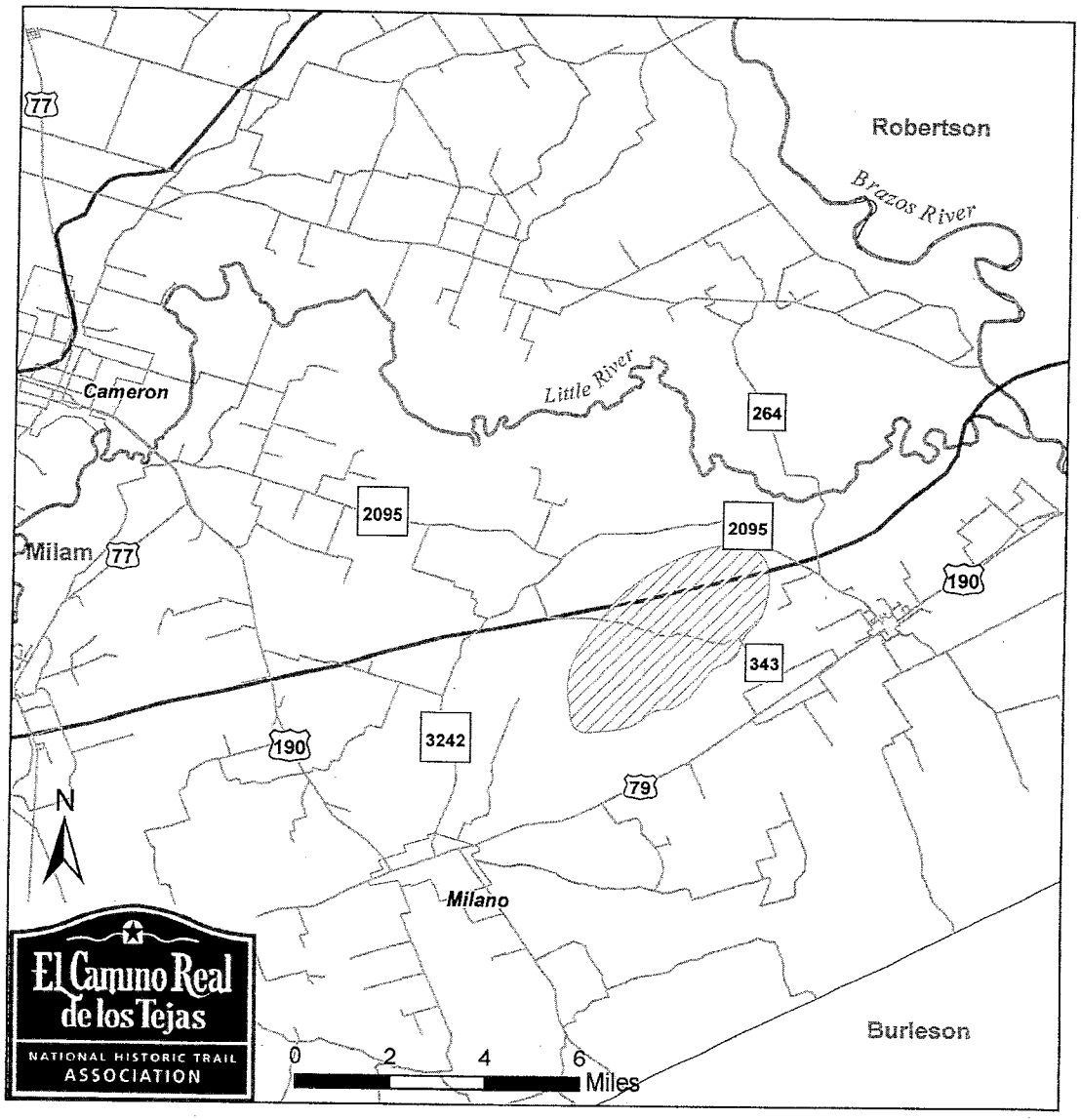
I thank you for your time and I ask that you not allow the road that led to the founding of Texas to be forgotten.

Thank you,



Steven Gonzales
Executive Director

Proposed Little River Reservoir in Milam County, Texas



Legend

- El Camino Real de los Tejas NHT
- Roads
- Major Waterways
- Proposed Off-Channel Reservoir
- Major Cities
- Milam County

Source:
Spatial extent of proposed reservoir taken from image on Cameron Herald online article on 24 April 2015.
http://www.cameronherald.com/news/article_cff74554-e4ec-11e4-aa1d-4f6cbcde1e14.html

Map by Nathan Garza
24 April 2015

Fallacies of MODFLOW Modeling

By T. Barret Lyne, PhD.

The most widely used model for estimating ground-water flow is MODFLOW. It is a computer program that estimates and implies certain characteristics about groundwater flow based upon theoretical equations processing real data. The real data have been historically underfunded and are consequently intermittently and unreliably collected and recorded by humans since the first water wells were dug by hand. Consequently, results obtained out of MODFLOW are - and can only be - as good as the theoretical mathematical equations and the sketchy real data collected, recorded, and entered. Research into the verification and validation of the MODFLOW modeling program has begun to show the less than reliable site specific comparisons of the modeling calculations with the real-world hydrogeological water flow because of the following four variables: 1) irregular spatiotemporal infiltration and redistribution patterns, 2) limitations of the basic water flow equations, 3) poor understanding of surface water to ground-water connections, and 4) inadequate MODFLOW validation procedures.

1. Water infiltration and redistribution are highly irregular and unpredictable by location and over time. Infiltration and redistribution quantities and rates depend upon the geological materials such as sand, silt, clay, organic matter, mineral content, and parent rock composition. All of these components and their infinite number of mixtures and variable states of condition have differing porosity, and hydraulic conductivity, which may vary in both space and time. Soils are highly variable by orders and within orders as are the layers and compositions of soil profiles. Some highly variable soil orders and profiles vary in soil matrix, water constituents, and physical and chemical characteristics every few inches as well as over time. Hydrogeological conditions can also vary with biological and mechanical perturbations such as geomorphological and bio-pore fast-track water shunting aberrations over time and locations. Examples of geomorphological fast-tracks for shunting water are finger funnel infiltrations, soil particle sizes and corresponding pore spaces of layered materials. Additionally, water may be shunted through these soil characteristics by fissures, cracks, streams, caves, and faults. Biological fast-track shunting of water may also occur by such dynamic variables as animal boroughs, ant colonies, and tree root channels. Another example is the loss of organic material content of soils and around individual soil particles by anthropogenic impacts of pollution, fire and other abuse. Consequently, the only consistent thing about soil and geology is that they consistently undergo change and they have irregular spatiotemporal infiltration and redistribution patterns of water.

2. Darcy's Law has generally described soil water redistribution flow rate as a linear flow across a cross-sectional area over time as a function of soil specific conductivity since 1856. The Green-and-Ampt Model in 1911 and Richards' equation in 1931, to combine the conservation of mass, modified Darcy's equation.

These very old mathematical models are the foundation of all water flow models including MODFLOW. However, these equations are based upon linear flow of water and the movement of water and chemicals through soils is not always linear. Modelers, however, make the assumption that when applied to saturated conditions, water racing through the multidirectional and chemically variable pore spaces is a summation of total water flow through the matrix. It is not! The water moving through the pore spaces and around the soil particles chemical charge based surfaces moves at differing rates. It also moves in an infinite number of directions or not at all because of the surface chemistry of the soil matrix acting upon the chemical and physical properties of the soil solution, "water". Scientists have used Differential Calculus as a study of change to view difficult problems as solvable until proven otherwise. They use derivatives to predict speed, acceleration, vectors, slopes, and other quantities. These differentials are regarded as infinite predictions of change – but they are just that, estimated predictions of unknown changes in real life quantities. Consequently, even with multiple alterations of Darcy's and Richards' equations with Differential Calculus, their mathematical formulas have limits on what they can estimate, predict, and imply about reality. That is where the validation of a model, like MODFLOW, with a specific location, having infinitesimal unknown characteristics, becomes questionable. The weaknesses and unreliable or lack of MODFLOW validation to real life situations has been proven by scientists, such as J. L. Osiensky and R. E. Williams (1997).

3. With the current knowledge of soil science and geology, it is now prudent to say the validation of model-calculated estimates and model-implied predictions in groundwater flow modeling may not actually represent real life groundwater flow. Equipped with the current knowledge of the complex mechanics of the chemical, physical, and biological properties of soils and geomorphology, it is very difficult and expensive, if not impossible, to validate the implicit predictions of water flow models for every specific location. The Department of Energy has designed and packaged eight test cases to verify and validate MODFLOW upon installation. On one hand, verification of the basic math formulas can reasonably be demonstrated – the basic addition, subtraction, multiplication, and division of the math formulas have been tried and tested for over 100 years. However, on the other hand, the meager eight packaged verification/validation exercises do not necessarily validate the modeling results for every location on earth with constant changes over time. DOE can package eight verification/validation test runs for software installation testing to show the software and hardware driven modeling codes are working in a computer system, but those eight tests do not make an all-encompassing, all-inclusive global modular model of real-life groundwater flow at any and every location on planet earth at any and all times. Research has now shown that to make estimates and predictions on pumping, storing, and transporting huge quantities of groundwater from one area to another based upon groundwater flow models such as MODFLOW is risky and irresponsible. The unknown parameters and constant changes in soils, soil solutions, and geomorphology are just too vast!

4. Scientists continue to have an incomplete understanding of surface water to groundwater connections. However, significant political and scientific progress has been made in this area. In 2006, Supreme Court Justice Kennedy redefined Surface Water to Groundwater connections, in Rapanos vs. U.S., 126 S.Ct. 2208 (S.Ct. 2006), to be the cumulative effect of hydrological and geological connections upon the chemical, physical, and biological integrity of navigable waters. Justice Kennedy explained that the cumulative effect of multiple discrete small subsurface hydrogeological connections constituted a "Significant Nexus." (Kusler , Parenteau, and Thomas, 2007) Although the results of this Supreme Court Opinion has continued to be applied to wetlands of the Clean Water Act Jurisdiction, this definition proclaims the presence of surface water to groundwater connections may exist and form nexuses below the surface as multiple discrete small subsurface hydrogeological connections. These are especially prominent and important in the southern clay pan Post Oak Savannah soils of our region. The importance of these clay pans , their associated perched water tables, and their discrete connections to springs, streams, ephemeral attributes, and the surface water is the maintenance of a Udic soil moisture. A specific and known Udic soil moisture content range is required for a specific time interval during the growing seasons for certain plant species to establish specific symbiotic relationships with mycorrhizal fungi for seed germination and plant growth. Significant nexuses as described by Justice Kennedy are of paramount importance in our ecosystem and agriculture.

Conclusion

In conclusion, Darcy's Law and Richards' Equation have limits on their useful implications of water flow behavior in the soils and geology of Earth's crust. These equations were proven in laboratories with known soil mixtures in confined linear flow glass models with known physical, chemical, and biological properties of the matrix, water, and ambient conditions. With tests over time, they were verified and proven to be valid to known porosities, known matrix chemistry, conductivity, and known water chemistry.

Likewise, the water flow models have similar limits. In 1997, J. L. Osiensky and R. E. Williams showed MODFLOW simulations would produce accurate results for the specific conditions simulated with preconditioned conjugate-gradient 2 (PCG2) methods, or with the strongly implicit procedure (SIP) if the proper combination of SIP matrix solution parameters is chosen by the user. That is to say, if we have known parameters, controlled conditions, and can minimize the unknown variables in a perfect world. However, they also showed accurate results could not be obtained with slice successive over relaxation (SSOR) with any of the combinations of matrix solution parameters used in their investigation.

Water managers have to know their limits and the limits of caned water models. Not to realize and accept the limitations of MODFLOW, is reckless and irresponsible management of our soil and water resources.

Bibliography

Kusler, J., P. Parenteau, E. A. Thomas. Significant Nexus and Clean Water Act Jurisdiction. Discussion Paper, Association of State Wetland Managers, Inc. March 5, 2007.

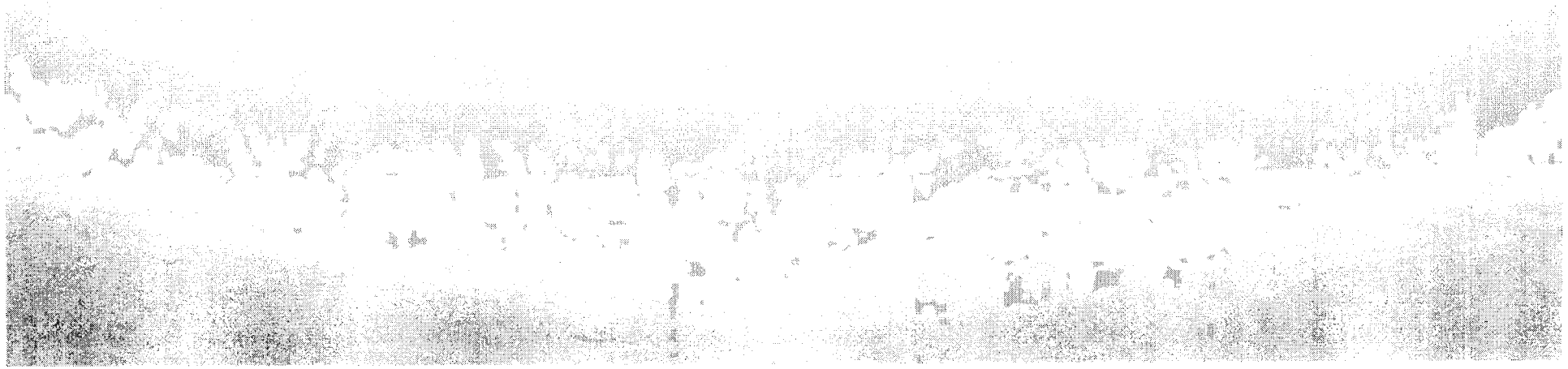
J. L. Osiensky and R. E. Williams (1997). Potential Inaccuracies in MODFLOW Simulations Involving the SIP and SSOR Methods for Matrix Solution Groundwater, 35: 229-232. Doi: 10.1111/j.1745-6584. 1997.tb00079.x

http://soilandwater.bee.cornell.edu/papers.htm

http://soilandwater.bee.cornell.edu/Research/pfweb/papers.htm

Fallacies of MODFLOW Modeling

By T. Barret Lyne, PhD.



Fallacies of MODFLOW

1. Water infiltration and redistribution
    a) irregular and unpredictable
    b) In space
    c) Over time

2. Darcy's Law
    a) Linear flow over time as function of conductivity
    b) Cross sectional area over time
    c) Modified by differential calculus with derivatives

3. Model verification and validation do not relate to real life ground water flow
    a) How do you verify infinity derivatives of the unknown
    b) How do you validate constantly changing soil and geology
    c) DOE provides an 8 test package to verify and validate at installation

4. Surface water to groundwater connections
    a) May be unseen cumulative numerous small discrete connections
    b) Defined by Justice Kennedy, U.S. Supreme Court, 2006
    c) Evolved in the southern clay pan Post Oak Savannah soil system with, and supports, the Navasota Ladies'-tresses orchid *(Spiranthes parksii)* and other mycorrhizal dependent plants in agri-business.

Germinating Navasota Ladies'-tresses *(Spiranthes parksii)* seed with mycorrhizal symbiosis – a bioindicator species for:

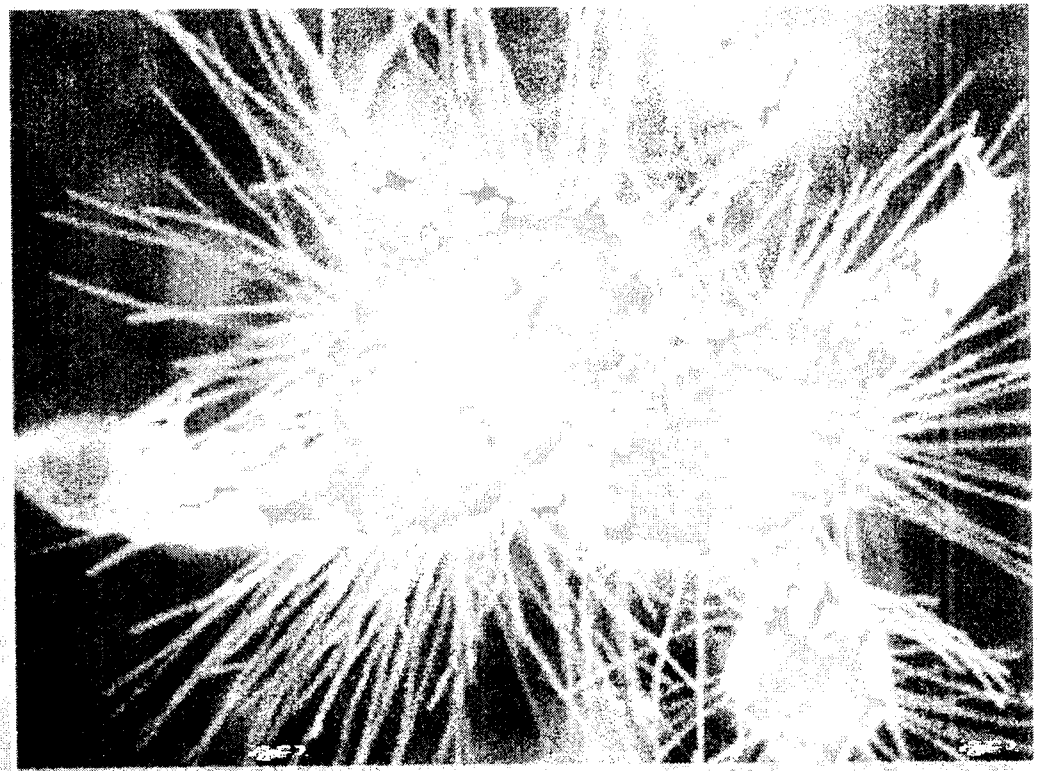


Figure 2. Advance stage *M.media* protocorms.

Fungi and water, over time for:
Clover
Wheat
Legumes
Oak trees
Pine trees
Christmas trees
Blueberries
85% of vascular land plants

Pollution
Habitat Destruction
Environmental Health
Public Health
Public Safety

Just say NO to SAWS, channelization, Little River-OCR, and flooding our land.

Thank you for saving our land and water. T. Barret Lyne, PhD.

MR. WAYNE WILSON 7/20/15

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loose the right of ingress and egress. This property is our home and it is how we make our living. Taking our land and cattle out of production will cause overwhelming emotional and financial hardships, create a huge loss of tax revenue for the local school districts and will have a profound impact on local ag businesses for decades to come. This is my home, this is my life and this is where I plan to die.

I find it hard to believe that the same government that refused farmers aid in constructing stock tanks because they deemed it unsuitable to hold water, now want to build a 4400 acre mud hole on land that 42% of the soil is like or more porous than what was deemed unfit.

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

Mike Kornegay
2608 CR343
Gause, Texas 77857

NORTH HOUSTON TX 773
23 JUL 2015 PM 1 L

Wilson Cattle Company
7026 East OSR
Bryan, Texas 77808

Attn: Wayne Wilson

EST. 1848
GEORGETOWN
TEXAS

CITY HALL
CITY OF GEORGETOWN

August 6, 2015

Region "G" Water Planning Group
P.O. Box 7555
Waco TX 76714-7555

Members of Region "G" Water Planning Group:

I want to first thank you for your service to the State of Texas related to the very important issue of Water Planning. As our State continues to see sustained growth, well planned water resources will be critical to continuing that growth trend. I want to take this opportunity to comment on the most recent draft Region "G" Plan related to resources within the plan; most specifically the Little River Off-Channel Reservoir project listed within the plan. We believe that Williamson County and the entire Brazos Basin will be enhanced by the inclusion of this project into the plan. Every reasonable water resource that can be developed, within the Brazos basin, is a resource that will provide for the continued prosperity of Texas. Whether or not the impact is within the Industrial, Agricultural, or Urban Land Development areas, water resource development is paramount to sustainability.

While the plan contains many options for water resource development, we want to express our strong opinion that maintaining a diverse set of identified resource options is proper long term regional planning. That is why we support the inclusion of ALL consultant recommended resources within the plan, including the proposed recommended Off-Channel Reservoir projects, without exception.

Thank you for your consideration of our interest in advocating inclusion of this project in long-term regional water planning for Region "G".

Sincerely,

Dale Ross,
Mayor

113 E. 8th St. | P.O. Box 409 | Georgetown, Texas 78627-0409 | (512) 930-3652 | (512) 930-3622 (fax)
www.georgetown.org | ms@georgetowntx.org

Trey Buzbee

From: Mike Conner <mike.conner@farm-market.net>
Sent: Tuesday, August 11, 2015 3:45 PM
To: Trey Buzbee
Subject: Comment on Brazos G 2016 IPP

Trey,

On page 2.1-1 in the next to the last paragraph it states:

> For the 2016 Regional Water Plans, the TWDB has new requirements for water conservation content to be included in the Plans including directives for regional water planning groups to assess the highest level of water conservation and efficiencies achievable, *report the resulting projected water use savings in gallons per capita per day,* and develop conservation strategies based on this information.

The IPP generally does this, but fails to report any savings from water conservation for the entities in Williamson County that are to receive water from the Little River Off-Channel Reservoir. Please break this information out as required in the above statement.

Mike Conner
mike@conner.net
512-368-3618
PO Box 8, 12374 FM 2095, Gause, Tx 77857

Dan Fischer

1808 22 Hills Road
Gause, TX 77857-7321
d-r@usa.com

RECEIVED
AUG 13 2015
Brazos River Authority

August 10, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, TX 76710

Dear Mr. Buzbee:

I am writing again to strongly oppose the use of the Little River Off-Channel Reservoir as a means of meeting your planning requirements for the Brazos G Regional Water Planning Group. I am an affected landowner and will lose most of my land if this lake is ever built. I hope you and your planning group will think very carefully before you vote to continue including the Little River Off-Channel Reservoir as part of the plan.

There are a number of issues I have with this proposal and hope you are open to considering these facts in your deliberations. I am also requesting that you provide this letter to your board members as part of their deliberation sequence.

First, are you aware that this proposed site is right on top of our aquifer recharge outcrop zones? I am no expert, but I seriously doubt that it will even hold water since it would probably drain directly into our aquifer (which in and of itself would not be a bad thing!). But do you really want to spend millions of dollars of somebody's money only to have the lake not hold water? I would think your engineering firm would have recognized this problem from the beginning.

Why locate the reservoir in Milam County? Why would you consider taking land away from people in Milam County simply to provide water to some other county? If you want the water for another county, then let them have the lake in their county. It would cost you less to operate because you could just pipe the water directly to their location from the rivers rather than store it somewhere in between (i.e. Milam County) and have to pipe the water twice. I am quite sure none of you are impacted by this, in that you have not voted to condemn your own land. That is not something you would like is it? All of the sudden, the issue becomes personal to you and your reaction is that there is no way you would allow that. Well, that is what you are doing when you take my land that I worked hard for and use it to benefit somebody miles away.

In addition, by taking this land for the reservoir, you will be removing the land from the Milam County tax rolls. That means Milam County citizens will be paying higher taxes for absolutely no benefit. Again, put it in the county it serves. In essence, what you are

doing is illegally taxing me and the other Milam County residents by raising my taxes for the benefit of someone else.

Did you know there is a Federal Historic Trail going through the lake site? Where does your group get its authority to flood a Federal Trail? Again, I would think your engineer could have figured that out in advance!

You will be inundating a cemetery having, I am told, over 130 graves. Where do you plan to move it? Is it safe to assume that you would gladly vote to have your land used as the new cemetery site? How would you feel if it were your family cemetery that was being moved and you had no choice in the matter? Once again, put the lake in the county it will serve and, if a cemetery is involved there, then they could deal with it because they would also be getting a benefit in return. Don't you think these types of issues should be resolved BEFORE you get public input? Otherwise, since you have not determined what land will be condemned for the cemetery, you are not giving the people in the area appropriate notice.

Many people in this area will be adversely affected by this proposal. Many have lived here all their lives and many of us moved here for retirement. The beauty of this area is not something that can be duplicated elsewhere, so you will certainly be ruining the lives of these individuals. I know that could be true for any site you choose, but again, this lake is not for us! It is for another county. Let them have it.

As far as I know, every political entity in this area has passed resolutions opposing this lake. Does that matter to you or not?

Placing the lake in the proposed location would involve a substantial rerouting of a Farm to Market road (FM 2095). I have no idea how you plan to reroute it, but that has the potential of negatively affecting a large number of people, many of whom would not be area residents. It would also involve rerouting a county road as well. In all probability, you will be making it much more difficult for residents in the southeastern part of the county to get to the county seat and the central part of the county.

This lake will be an eyesore and probably will produce an obnoxious odor most of the time. It will seldom be full and most of the time would be quite low. This would leave a lot of mud flats that would do nothing but stink and look terrible. The ebb and flow of the water into and out of the lake could also adversely affect the habitat around the lake once it is built. What is shoreline or lake front one day is mud the next.

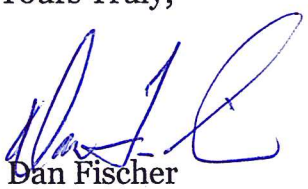
It is my understanding that not only are you taking away the land for the lake itself, your plan tends to gloss over the fact that you will also condemn approximately the same number of acres to serve as a location for the displaced animals and wildlife in the area. Where will that land be? Your maps do not show it that I can find. This is not treating the people in the area fairly. You need to show that land as well as the land for the lake itself.. Otherwise, you are not being honest with the people in this area.

I am under the impression that the way you arrive at the amount of water needed is by using the lowest annual rainfall year and then assuming that year is the basis for determining the amount of water needed by the geographic area you are attempting to help. If that is the case, then your methodology is seriously flawed because that means you are proposing a solution to a problem that does not exist and one that has an extremely low probability of ever existing again. Sure, there are record breaking years for least or most rainfall, but those are extremes. You should be planning for what is probable and NOT something that is a worst case scenario and one that is not likely to last long or to be repeated. I guess that would be ok if you had all the money in the world and there were no negative impacts. But, to create this solution based on a single worst year, or even a number of "worst" years, you are not planning properly. That just does not make any sense.

I have been on many boards in my life and I know how boards make decisions. It is very easy to sit in the boardroom, hear presentations, and then vote to do something because it sounds good at the time. When it does not affect you, it gets easier and easier to take something away from somebody else. You can even try to justify it as being for the common good. Well, I think your board needs to think abut the personal side of the equation and balance the benefits against the negative impacts. How would you feel if it were to be on your land? Would you want to lose your land because some group of people, who probably have never even been to the site, use the worst year in history to assume that is what the average need will be, plus select a location that won't hold water and is not even close to the people to be served, and one that covers up a Federal Historical Trail? This Little River Off-Channel Reservoir just does not make any sense as currently proposed. It does not pass the common sense test. There is no "common good" for the citizens in this area and it appears you have a solution in search of a problem.

I respectfully ask that you vote against the inclusion of this version of the off-channel solution in the next version of your plan.

Yours Truly,



Dan Fischer

RECEIVED
AUG 12 2015
Brazos River Authority

August 7, 2015

Mr. Trey Buzbee, Brazos G Administrator

Brazos G Regional Water Planning Group

Brazos River Authority

4600 Cobbs Drive

Waco, Texas 76710

Dear Mr. Buzbee and Members of the Brazos G Regional Water Planning Group

My wife and I attended your public comment meeting in early June along with many other concerned individuals. I complement you on the courtesy, politeness, and helpfulness of the entire staff. They were all very professional.

As a landowner in the impacted area, I want to again express my strong opposition to this project. Please be aware that my ranch is not a hobby but a working ranch in the business of providing food for America. This is a serious operation which my family has managed to operate for over 130 years to farm and raise beef cattle.

I have the following questions about this project:

1. As I recall, there were 8 or 9 Region G board member absent at the June meeting where our comments were presented. Will each of those absent either read the meeting comments or watch a video of the presentation prior to their vote on the project?
2. Does Region G have any requirements that submitted water needs from the municipal groups include any degree of conservation, water reuse, or alternate options to fill their requirements?
3. What is the history over the last 30 years concerning how often water would be available from the Brazos R
4. iver to fill this reservoir? How often would this OCR be empty if the last 30 years were repeated?
5. We have seen information from a hydrologist that over 45% of the Little River OCR is located over a recharge zone for a shallow acquifier in this coarse sandy soil? How could this possibly work? Has any hydrologist on

the Region G staff even looked at this project before it was placed on your plans?

6. What is the process used by Region G to weigh the real water needs instead of the "wish list" needs such as Williamson County developed versus the pain and agony of taking land from citizens miles away? Does anyone listen to our needs and property rights?

Comments were presented at the June meeting from several individuals stating stress related health problems in addition to economic problems now in effect. Please be reminded that these problems are real. We deal with them daily but we don't really understand how to effectively make this fight. We want a fair treatment that doesn't seem to be in your plans at this time.

I ask that you dismiss the Little River Off-Channel proposal from the 2016 plan and all future plans. I appreciate your consideration of these comments and concerns. Please contact me at 254-482-1795 or at jandjwise@att.net.

Sincerely

Jerald Wise

Jerald Wise P.E. (Ret)

116 Reenie Drive

Cameron, Texas 76520

Trey Buzbee

From: Mike Kornegay <mikewaynek@aol.com>
Sent: Thursday, August 06, 2015 7:44 AM
To: Wayne and Linda Wilson
Cc: <peek@thetexasfirm.com>; Trey Buzbee; David Dunn
Subject: Re: 2016 Brazos G Regional Water Plan

Mr. Wilson

Thanks for your reply.

I spent over 3 decades in Major Independent Oil and Gas Company Downtown Houston office so I am pretty well schooled on how things get done .

I also know Mr. Dunn is only one who can answer the questions I asked. Isn't HDR the firm that presents their ideas for the members to vote yay or nay?

I am not trying to offend anyone, but you are talking about my life and my families legacy and when I attend one of your meetings I don't get a sense of caring.

The sign on the door says cut cell phones off when you come in the door. Evidently that only applies to guest??

Thanks again

Mike Kornegay
Sent from my iPhone

On Aug 5, 2015, at 2:57 AM, Wayne and Linda Wilson <wlwilson@tconline.net> wrote:

> Dear Mr. Kornegay,
> I wanted to clarify a few points about the water planning process. While the Region G water planning group retained HDR, Inc. to assist it in the water planning process, the water planning group ultimately decides how to respond to public comments. In effect, nothing is set in stone until the water planning group adopts the final plan. The water planning group must, however, follow the mandate from the State of Texas in adopting a final plan.
> Have a blessed day,
> Wayne Wilson
> Chair - Brazos G Regional Water Planning Group
> 979-218-1800
> wlwilson@tconline.net
> I will rejoice in the God of my salvation. Habakkuk 3:18
>
> On Aug 3, 2015, at 6:56 AM, Mike Kornegay <mikewaynek@aol.com> wrote:
>
> > Since you are the one that formulated the plan and the one that stated it was the best site, I am not sure the BRA can answer
> > Sent from my iPad
> > Mike Kornegay

From: Dunn, David
Sent: Sunday, August 02, 2015 3:28 PM
To: Mike Kornegay
Cc: Wayne and Linda Wilson ; mailto:peek@thetexasfirm.com ; Trey Buzbee
Subject: RE: What is your mailing address
Thank you for your questions and comments, Mr. Kornegay.

In order to treat all comments equally, the Brazos G Regional Water Planning Group will respond to comments regarding the Initially Prepared 2016 Brazos G Regional Water Plan following the close of the comment period on August 24. All comments received and the corresponding responses from the planning group will be included in the text of the final 2016 Brazos G Regional Water Plan. The planning group will review comments received, prepare responses to those comments, and determine what changes to the plan are necessary over the next several months, culminating in the submittal of the final plan to the Texas Water Development Board by December 1, 2015.

If you have any further comments or questions regarding the planning process, please do not hesitate to contact us.

Best regards,

David

David D. Dunn, PE
D 512.912.5136 M 512.791.3671

hdrinc.com/follow-us

From: Mike Kornegay [mailto:mikewaynek@aol.com]
Sent: Saturday, August 01, 2015 11:03 AM
To: Dunn, David
Subject: Re: What is your mailing address

David,

How and why is the Little River OCR deemed the best site?

First the primary recipient of the water being Williamson County why not build the lake there?

In Milam County why wasn't these considered 8

How is it better than Damming 6 mile creek? That location is a lot closer to the Brazos River.

If distance of a 12' concern, why not Cannon Snap water shed?

Truth of the matter is we don't want a lake anywhere in Milam County.

Mike Kornegay
Sent from my iPhone

On Jul 23, 2015, at 8:57 AM, Dunn, David <David.Dunn@hdrinc.com> wrote:

> Just to be clear and make sure nothing is missed – my mailing address was included in my email signature when I replied to you. Here it is again:
>
> Have a great day.

David

David D. Dunn, PE
Vice President

HDR
4401 West Gate Blvd., Suite 400
Austin, Texas 78745
D 512.912.5136 M 512.791.3671
david.dunn@hdrinc.com

hdrinc.com/follow-us

From: Dunn, David
Sent: Thursday, July 23, 2015 8:27 AM
To: Mike Kornegay
Subject: Re: What is your mailing address

Thanks for the memory refresher. I recognized the name, but couldn't place it.

David

David D. Dunn, PE
Vice President

Sent from my mobile device

HDR
4401 West Gate Blvd., Suite 400
Austin, Texas 78745
D 512.912.5136 **M** 512.791.3671
david.dunn@hdrinc.com

hdrinc.com/follow-us

On Jul 23, 2015, at 5:52 AM, Mike Kornegay <mikewaynek@aol.com> wrote:

> Not your home address ,work, do you recognize Little River OCR
>
> Sent from my iPhone

> On Jul 22, 2015, at 7:51 PM, Dunn, David
> <David.Dunn@hdrinc.com> wrote:

Sorry. I don't recognize your name.

David

David D. Dunn, PE

Vice President

Sent from my mobile device

HDR

4401 West Gate Blvd., Suite 400<x-apple-data-detectors://0/0>

Austin, Texas 78745<x-apple-data-detectors://0/0>

D 512.912.5136<tel:512.912.5136> M 512.791.3671<tel:512.791.3671>

david.dunn@hdrinc.com<x-apple-msg-load://D9537220-F21F-4BF6-A8DE-9725CB93B1CB/david.dunn@hdrinc.com>

hdrinc.com/follow-us<http://hdrinc.com/follow-us>

On Jul 22, 2015, at 7:26 PM, Mike Kornegay <mikewaynek@aol.com<mailto:mikewaynek@aol.com>> wrote:

Thanks

Sent from my iPad

Mike Kornegay

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.6122 / Virus Database: 4392/10365 - Release Date: 08/03/15

Trey Buzbee

From: Mike Kornegay <mikewaynek@aol.com>
Sent: Thursday, August 06, 2015 8:14 AM
To: Wayne and Linda Wilson
Cc: <peek@thetexasfirm.com>; Trey Buzbee; David Dunn
Subject: Re: 2016 Brazos G Regional Water Plan

Mr. Wilson

When Daddy made out his will , he tried to tie this land to this family for the next generation. Meaning that when he and mom passed we 6 kids get the land with one stipulation you could only sale to another sibling, John Henderson told dad he could tell my mother she couldn't sell and that you couldn't tie land up that long legally .

Do you really think , I would take ANY amount of money for my Father and Mothers treasure? One day I will have to explain to Bulldog why I did it. My father told me there was no such word as can't. I made a 5 decade career out of that advise. I am certainly not going to run away and hide now.

Mike Kornegay

Sent from my iPhone

On Aug 5, 2015, at 2:57 AM, Wayne and Linda Wilson <wlwilson@tconline.net> wrote:

> Dear Mr. Kornegay,
> I wanted to clarify a few points about the water planning process. While the Region G water planning group retained HDR, Inc. to assist it in the water planning process, the water planning group ultimately decides how to respond to public comments. In effect, nothing is set in stone until the water planning group adopts the final plan. The water planning group must, however, follow the mandate from the State of Texas in adopting a final plan.
> Have a blessed day,
> Wayne Wilson
> Chair - Brazos G Regional Water Planning Group
> 979-218-1800
> wlwilson@tconline.net
> I will rejoice in the God of my salvation. Habakkuk 3:18
>
> On Aug 3, 2015, at 6:56 AM, Mike Kornegay <mikewaynek@aol.com> wrote:
>
> > Since you are the one that formulated the plan and the one that stated it was the best site, I am not sure the BRA can answer
> > Sent from my iPad
> > Mike Kornegay

From: Dunn, David
Sent: Sunday, August 02, 2015 3:28 PM
To: Mike Kornegay
Cc: Wayne and Linda Wilson ; mailto:peek@thetexasfirm.com ; Trey Buzbee
Subject: RE: What is your mailing address
Thank you for your questions and comments, Mr. Kornegay.

In order to treat all comments equally, the Brazos G Regional Water Planning Group will respond to comments regarding the Initially Prepared 2016 Brazos G Regional Water Plan following the close of the comment period on August 24. All comments received and the corresponding responses from the planning group will be included in the text of the final 2016 Brazos G Regional Water Plan. The planning group will review comments received, prepare responses to those comments, and determine what changes to the plan are necessary over the next several months, culminating in the submittal of the final plan to the Texas Water Development Board by December 1, 2015.

If you have any further comments or questions regarding the planning process, please do not hesitate to contact us.

Best regards,

David

David D. Dunn, PE
D 512.912.5136 M 512.791.3671

hdrinc.com/follow-us

From: Mike Kornegay [mailto:mikewaynek@aol.com]
Sent: Saturday, August 01, 2015 11:03 AM
To: Dunn, David
Subject: Re: What is your mailing address

David,

How and why is the Little River OCR deemed the best site?

First the primary recipient of the water being Williamson County why not build the lake there?

In Milam County why wasn't these considered 8

How is it better than Damming 6 mile creek? That location is a lot closer to the Brazos River.

If distance of a 12' concern, why not Cannon Snap water shed?

Truth of the matter is we don't want a lake anywhere in Milam County.

Mike Kornegay
Sent from my iPhone

On Jul 23, 2015, at 8:57 AM, Dunn, David <David.Dunn@hdrinc.com> wrote:

> Just to be clear and make sure nothing is missed – my mailing address was included in my email signature when I replied to you. Here it is again:
>
> Have a great day.
>
> David
>
> **David D. Dunn,** PE
> *Vice President*
>
> **HDR**

4401 West Gate Blvd., Suite 400
Austin, Texas 78745
D 512.912.5136 M 512.791.3671
david.dunn@hdrinc.com

hdrinc.com/follow-us

From: Dunn, David
Sent: Thursday, July 23, 2015 8:27 AM
To: Mike Kornegay
Subject: Re: What is your mailing address

Thanks for the memory refresher. I recognized the name, but couldn't place it.

David

David D. Dunn, PE
Vice President

Sent from my mobile device

HDR
4401 West Gate Blvd., Suite 400
Austin, Texas 78745
D 512.912.5136 **M** 512.791.3671
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David D. Dunn, PE

Vice President

Sent from my mobile device

HDR

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Version: 2015.0.6122 / Virus Database: 4392/10365 - Release Date: 08/03/15

Scanned ✓ June 15, 15

Dan Fischer

1808 22 Hills Road
Gause, TX 77857-7321
d-r@usa.com

June 12, 2015

Mr. Trey Buzbee, Brazos G Administrator
Brazos G Regional Water Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, TX 76710

RECEIVED
JUN 15 2015
Brazos River Authority

Dear Sir:

I writing to respectfully oppose the Little River Off-Channel Reservoir proposal as set forth in the Initially Prepared 2016 Brazos G Regional Water Plan. I could write pages about what is wrong with this proposal, but in the interest of your time I will briefly highlight a few.

- First, your plan is not precise with regard to who the customer will be, but it appears to be primarily for Williamson County and your organization. My feeling is that if Williamson County needs water, let them build a lake in their own county.

- Enough has not been done with regard to conservation to justify taking land from families who have owned the land for years and years. It is very easy to vote for doing something in somebody else's area. How many of your board members have voted to put a lake in an area that would take away their own property?

- I bought this land and build a nice home on it for retirement purposes and to have something to hand down to my children and grand children. Now, for what appears to be poor planning as well as illogical justifications, you want to take that land away from me. I have three children and six grand children who love this place and who were supposed to inherit it for their future use. If you are going to take it away, I think you should do so in a much more scientific and fact based manner than just an idea that makes no sense.

- As I understand it (I am no expert), your planning process uses the worst year as the base year for your model that shows the need for this reservoir. That is not logical planning because it is not realistic. One bad year or two bad years does not constitute a trend nor does it create a crisis.

- I do not know if this is true, but I have been told that the river authority claims it cannot permit any more withdrawals from the Brazos. If that is true, then how can the authority itself pump or allow this water to be pumped out of the river?

- I don't think it is proper for you to send out a half-baked proposal with no scientific or engineering work being done on it first. Maybe I just don't understand the process, but how do you even know this land will support a lake? Do you know that it will be directly over an aquifer recharge outcrop? What will that impact be?

- There is a danger to Milam County as well in that you will be removing a lot of land from the tax base. The county already has severe financial problems and now you are only trying to make that situation worse. This means everyone's taxes in the county will have to increase.

I have more concerns, but will close with just this one comment. You have taken it upon yourself (your board) to instantly harm every landowner involved. That harm is happening now. I am not going to sell my place, but suppose an affected owner in this area needed to sell his land or part of it. Who in their right mind would purchase land that may be taken away from them in the foreseeable future? You have therefore taken away the land already – without proper condemnation processes.

I urge you and your board to do what is right. Put yourselves in these landowner's positions. There are other options to meet the water needs without affecting a lot of innocent people who gain nothing from this lake (which by the way, will be an eyesore most of the time). You would not want your land taken away, so why in the world would you adopt a flawed proposal that takes away the land of others?

Yours Truly,

Dan Fischer

Thank you for your consideration

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RECEIVED
JUN 22 2015
Brazos River Authority

22 Hills Homeowners' Association
Architectural Control Committee

At a called meeting the 22 Hills Homeowners' Association Architectural Control Committee, at 1800 22 Hills Road, Gause, Texas at 11:00 am on June 13, 2015, the following approved:

RESOLUTION OPPOSING CREATION OF A LITTLE RIVER OFF-CHANNEL RESERVOIR

WHEREAS, The Brazos G Regional Water Planning Group is proposing a plan to construct an "off-channel reservoir" that would flood approximately 4,350 acres of private land contiguous to and including the West end of the 22 Hills property near Gause, Milam County, Texas for the purpose of exporting water to other counties and/or entities, and

WHEREAS, the proposed project would inundate all or portions of several 22 Hills properties, and

WHEREAS, the proposed project will potentially cause other 22 Hills properties to be condemned, even though not flooded, for the purpose of wildlife habitat for displaced wildlife, and

WHEREAS, the proposed project would have an adverse effect upon the tax bases for Milam County and the Gause Independent School District, and the Milano Independent School District, and therefore raising taxes on area residents who receive no benefit from those increased taxes, and

WHEREAS, just the announcement of the potential project will have a demonstratively negative impact on any owner attempting to sell his or her land on the open market, effectively reducing the value of said land or potentially making it unmarketable, and

WHEREAS, the proposed project provides no tangible benefit to 22 Hills, its property owners, or Milam County in general, and because the landowners will lose their land to benefit those in some other county or location, and

WHEREAS, the proposed project will inundate large stretches of the National Historic Trail known as the El Camino Real De Los Tejas as well as the Pin Oak Cemetery, both to the Northwest of 22 Hills, and

WHEREAS, the proposed project will destroy the lifestyle and long-term lifelong plans residents have made with regard to living out their years or using their land in the 22 Hills environment in which they purchased said land,

WHEREAS, the proposed project would severely impact the lives of 22 Hills residents' heirs who would be disenfranchised from inheriting the quiet, scenic, and peaceful lands comprising 22 Hills as well as those lands in the immediate surrounding area that their parents, grand

parents, or great grand parents, as the case may be, had worked hard to purchase for those heirs' ultimate enjoyment,

THEREFORE IT IS HEREBY RESOLVED by the 22 Hills Homeowners' Association Architectural Control Committee that it strongly opposes the creation of the Little River Off-Channel Reservoir and urges the Brazos G Regional Water Planning Group and or related groups to drop this project from their list of planned projects.

Dan Fischer, Member Tracy Dixon, Member Jack Marino, Sr., Member

Attested to by the following listed landowners composing the Texas Rural Subdivision, 22 Hills standing in unison with the Resolution:

Gerald & Herlinda Briggs
Earl & Carol Campbell
Jim & Annette Davis
Tracy & Lisa Dixon
Vivian Dixon
Joe & Becky Ferrara
Dan & Reba Fischer
Terry & Sheryl Hall
Don & Lynn Hagan
Chris & Jennifer Juhl
Norman & Linda Koch
Jack Marino Sr.
Mike & Jeanne Niklasch
Ken & Carla Rhodes
Mike & Lindsay Rowland
Fred & Mary Ann Russell
James & Tonetta Schlemmer
Daniel & Chasity Shaw
Trey & Jennifer Skiles
Jeff & Nancy Soechting
Evan & Stephanie Vause
Jim & Mary Waldson
Larry & Kim Wall
Lee & Linda Walters
Arash Yekrangi-Tajvidi

Mr. Dan Fischer
1808 22 Hills Rd
Gause, TX 77857

★ PROUD SUPPORTER OF THE USO ★

NORTH HOUSTON TX 770

20 JUN 2015 PM 1 1

MR. TREY BUZBEE, BRAZOS G ADMINISTRATOR
BRAZOS G REGIONAL WATER PLANNING GROUP
BRAZOS RIVER AUTHORITY
4600 COBBS DRIVE
WACO TX 76710

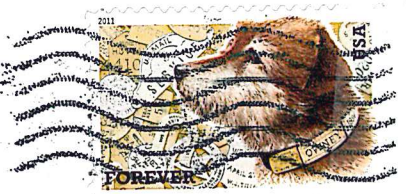
76710300800

Mr. Dan Fischer
1808 22 Hills Rd
Gause, TX 77857

★ PROUD SUPPORTER OF THE USO ★

NORTH HOUSTON TX 772

20 JUN 2015 PM 1 L



MR. TREY BUZBEE, BRAZOS G ADMINISTRATOR
BRAZOS G REGIONAL WATER PLANNING GROUP
BRAZOS RIVER AUTHORITY
4600 COBBS DRIVE
WACO TX 76710

7671030080O

RECEIVED
JUN 25 2015
Brazos River Authority

Marion Brewer Travis
707 East 16th Street
Cameron, TX 76520

254-697-4098
marion_travis@sbcglobal.net

June 19, 2015

Brazos G Regional Planning Group
Brazos River Authority
4600 Cobbs Drive
Waco, TX 76710

RE: BRA Region G Adds Insult to Injury to Citizens of Milam County, TX

Dear BRA Region G Members:

Although qualified to do so, I have to do no academic research to assert that your Brazos G Regional Planning Group seeks, perhaps unwittingly, to add a shameful new chapter of neglect to the people of Milam County. Most of my long life has been lived in Central Texas; accordingly I am a witness to Brazos River Authority's disregard for the topographical realities of this county since the BRA's beginning in the 1930s.

Born in Cameron in 1929, I grew up on the upland of Little River immediately north of Cameron. My family's property included Little River bottomland that frequently flooded my family's crops. Occasionally the floods were beneficial; otherwise they were destructive. Thanks be to God we were fortunate to have other sources of income. We were excited about the creation of Brazos River Authority expecting improved life in Milam County. Naively, we believed Milam County—crossed by Little River—would benefit someday. No one knew that BRA planning from the beginning would disregard, even exploit, Milam County's people.

Now we see that BRA practices over untold decades have encouraged economic development elsewhere in the Brazos basin while its policies continue to degrade our environment.

Little River's watershed embraces 2,349 square miles, which means, according to the U.S. Geological Survey, it is bigger than the two U.S. states--Delaware at 2026 square miles and Rhode Island at 1213 square miles.

Instead of the expected public benefit in Milam County, BRA planning over the years would eventually reduce water flow in Little River turning it into a convenient sewer for wastes from 41 permitted outfalls from municipal and industrial waste. Further, rains wash animal waste, fertilizer, and pesticides into Milam's majority share of Little River. The river is unfit for public recreational use. BRA administrators had to know all along that, after construction of watershed dams, Little River watershed's configuration would produce precisely this result. Did BRA have a policy to do no harm? I see no such evidence. In fact, it continues its exploitation.

The Brazos River is the longest river in the U.S. to be confined to one state. The Brazos River Authority is an important, huge, wealthy entity today. It contracts with world-class engineers at great cost to plan its water improvements. Likely, looking for the least expensive practical solution to a need, the BRA puts constraints on its engineers to find the least expensive means to accomplish a desired result.

It is out of these circumstances that the newly proposed Little River Off-Channel Reservoir is designed. Its purpose is to provide Brazos River water storage chiefly for population needs outside of Milam County. Milam citizens are asked once more to play a purely utilitarian role at the behest of BRA for benefit of other counties. We are again being used. How? Now BRA plans to seize valuable private property in Milam County to *someday* build a reservoir of no benefit to the people living in Milam County. Instead it is destructive; meanwhile—whatever time that covers—the titles of targeted private property are clouded.

BRA's historical maltreatment of Milam County is an outrage that no local citizen can take lightly.

Everyone knows a dam on Little River—before it drains into the Brazos—would not be an optimal solution because City of Cameron is near the vastness of our river bottomland. Doubtless BRA policy is to make its projects cost-effective. Apparently, providing potable or recreational water to Milam County would not be cost-effective.

Yet we know also that world-class engineers such as those who contract with BRA are capable of designing a solution to most problems. Did their planning seek alternatives to an off-channel reservoir in Milam County?

Did the BRA's engineers look at all the alternatives to increase water supply for others? Did they examine the possibility of increasing the capacity of Lake Georgetown or Lake Granger? Increasing the size of a water storage lake is not a new idea. It has been done successfully before. If river water storage capacity is not keeping up with population growth, a second taller, wider dam may be built downstream from an existing, outmoded dam. Upon completion of the new

dam, the old dam is demolished. The result is a greatly increased water supply for nearby population.

The above would be only the beginning of other solutions for water supply rather than the proposed off-channel reservoir in Milam County.

To be sure, water is an essential of life. It must be provided for Texans. But in the U.S.A. planners affecting the public good shall exhaust all possibilities before sacrificing private property when such an action will produce no *comparable* benefit to citizens stripped of their land.

I demand that BRA Region G shall take a long, second look at what it is proposing.

Very truly yours,

Marion Travis

Copies: Texas Senator Charles Schwertner
Texas Water Development Board
Temple Daily Telegram
The Cameron Herald

THIS IS JUST ONE OF
THE ARTFUL THINGS YOUR
BULLSHIT PLAN WILL DESTROY
THINK BEFORE YOU START
SPEWING BULLSHIT YOU KNOW
NOTHING ABOUT.

Michael Wayne Kozuga

July 28, 2015

HDR

4401 West Gate Blvd. Suite 400

Austin, Texas 78745

Attention. David D. Dunn

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loose the right of ingress and egress. This property is our home and it is how we make our living. Taking our land and cattle out of production will cause overwhelming emotional and financial hardships, create a huge loss of tax revenue for the local school districts and will have a profound impact on local ag businesses for decades to come. This is my home, this is my life and this is where I plan to die.

I find it hard to believe that the same government that refused farmers aid in constructing stock tanks because they deemed it unsuitable to hold water, now want to build a 4400 acre mud hole on land that 42% of the soil is like or more porous than what was deemed unfit.

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

I found the cavalier attitude you exhibited at the BRA meeting and your subsequent TV interview, June 23, 2015, both insulting and appalling. You stated that the Little River OCR in Milam County, Texas was the best option to supply water for the countless thousands of Yankees and Californians moving to this state. How did you reach this ambiguous conclusion?

Have you researched the soil? Did you visit the land? Did you meet any of the good Texans who your plan will adversely effect? I didn't think so. Anyone with reasonable intelligence can outline a lake looking at topographical map. Your lack of compassion for real Texans speaks volumes to your character and integrity. Should you ever want to see the land you so are eager to condemn , you have my address , come visit ANY time.

Thanks for your consideration

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

MR. GARY NEWMAN

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

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WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

RECEIVED
JUL 23 2015
Brazos River Authority

Trey Buzzbee 7/20/15

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WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

Mike Korneyev
2608 C.R. 343
Gause, Texas 77857

NORTH HOUSTON TX 773
21 JUL 2015 PM 5 L

Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76714-7555
Attention: Trey Buzbee

76710300800

Steve and Cathy Lazarus
11685 FM 2159
Calvert, TX 77837
254-746-7762

July 20, 2015

To: Wayne Wilson, President Brazos G RWPG
Trey Buzbee, Brazos G Administrator

Thank you for the opportunity to comment on the initially proposed Brazos B Region Water Plan.

My formal comments are attached. I just want to acknowledge my confusion during the public hearing regarding the use of the CCEFN which has been replaced by the Brazos WAM. I mistakenly assumed the continued use of the old modeling program from the draft General Guidelines for Fifth Cycle (2017-2022) document that is sure to be revised.

Also, I would ask that the newspaper of record for Robertson County be listed as Robertson County News which has a larger distribution across the county. I do believe they will require usual and customary rates for public notice publication.

The last request would be to include the proposed recommended WMS table (E5) and proposed Alternate WMS table (E6) in the document provided for review. These tables are very helpful in reviewing and separating the recommended strategies from those that have only been evaluated.

We certainly do not wish to deny folks their fair share of water. But, why not let the river water run through Falls, Milam, Robertson and Brazos Counties to the folks down south that need it before trying to harness its freedom and destroy its spirit.

Thank you for the opportunity to express my opinions and I hope it receives your positive response.

Sincerely,

Cathy Lazarus
clazhome@msn.com

PUBLIC COMMENTS REGARDING THE BRAZOS G REGIONAL WATER PLANNING 2016 INITIAL PROPOSED PLAN

My name is Cathy Lazarus from Robertson County representing myself as a landowner. I respectfully ask that you remove from the 2016 Regional Water Plan

4.8 Main Stem Off-Channel Reservoirs (OCR)-- to include the Little River OCR, Milam County OCR and all other "identified OCR sites"

My comments are below.

1) Procedural concerns:

a) Apparently, any user may request a Water Management Strategy (WMS) that's water source is outside the user's immediate area. When this happens, all of the evaluations/recommendations are discussed without the knowledge, review and/or input from the impacted "giving area." When the "giving area" is in another County or Region, reference should be made that this strategy exists under the scope of the "giving area's" county/municipal water plan.

b) Having only looked at my county and region's plans, it appears that "place holder" options are occasionally used. My definition of place holder is a water supply strategy that will never be implemented when good science or common sense is applied in its evaluation. It simply serves the purpose of meeting some user's need/demand in future decades until a better idea comes along. This misrepresents the State water balance, as well as, wastes time and money.

c) The use of Modeled Available Groundwater (MAG) and [Surface] Water Availability Model (WAM) values seem to cause consternation among some planners. Either these estimates hold value or not. If they are reasonably accurate predictors of the amount of water available, then they should be used. If not accurate, then something should be done to correct the modeling scenarios so there is confidence among all stakeholders in the planning process. As a layman, it is worrisome that one group in the collaboration insists on a set of limits that another group dismisses as arbitrary.

2) Brazos WAM concerns:

a) The TCEQ SB3 environmental flow standards are quite complex. As with any computer simulation, accurate datasets and built-in assumptions (or bias correction estimates) are used to try to formulate a water management matrix that will mimic the natural ebb

and flow of the Brazos River. Who will monitor the end results of this process? It seems that once started, the new flow dynamics will be so regulated that what was once "natural" is a lost baseline.

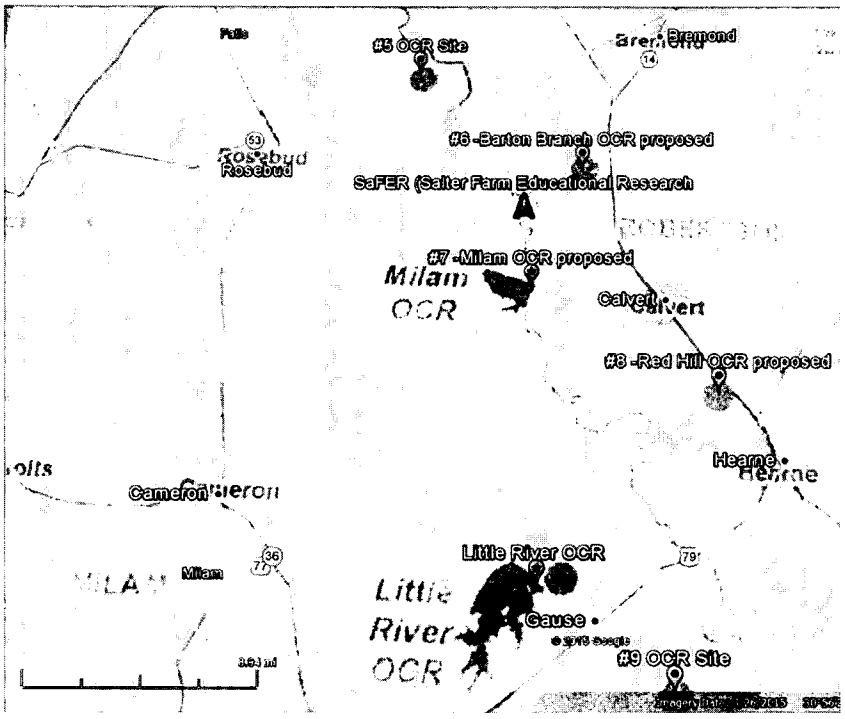
3) Main Stem Off-Channel Reservoirs concerns:

a) Environmental impact: The only way the BRA's permit request for additional Brazos River unappropriated flow works is if the diverted excess flow can be stored. I am concerned the 14 identified OCR sites were too casually assigned without adequate consideration to the geologic and hydrologic significance of the proposed uplands. In the BBEST recommendation report, although they "...conclude that no single project [reservoir] is likely to have a substantial influence on total discharge in the Brazos River or to freshwater inflows to the Gulf of Mexico, it is acknowledged that the cumulative impact of multiple potential reservoirs may reduce freshwater inflows to the Gulf of Mexico." BBEST report also states "regional water plans acknowledge that the impact of new reservoirs will be lower variability and reductions in quantity of median monthly flows and that there will be impacts on the biological community in the immediate, downstream vicinity of the project site."

The most northern "identified OCR site" in Robertson County is along Barton Branch, a stream flowing into the Little Brazos River. Again quoting from the BBEST report, "the entire schematic of an off-channel reservoir relies upon scalping high flow events that may have an impact on the ecological soundness of the stream." This Barton Branch proposed site is directly upstream from the Salter Farm and any intrusion along the River will adversely affect this ecologic system of Barton Branch and Dr. Scully's research farm down river from the "scalping site."

The Milam County OCR is also near the Salter Farm Educational Research Program where world-renowned Texas A&M University quantum physicist Marlan Scully combines cutting-edge laser research with student teaching, from the latest in science to more efficient farming.

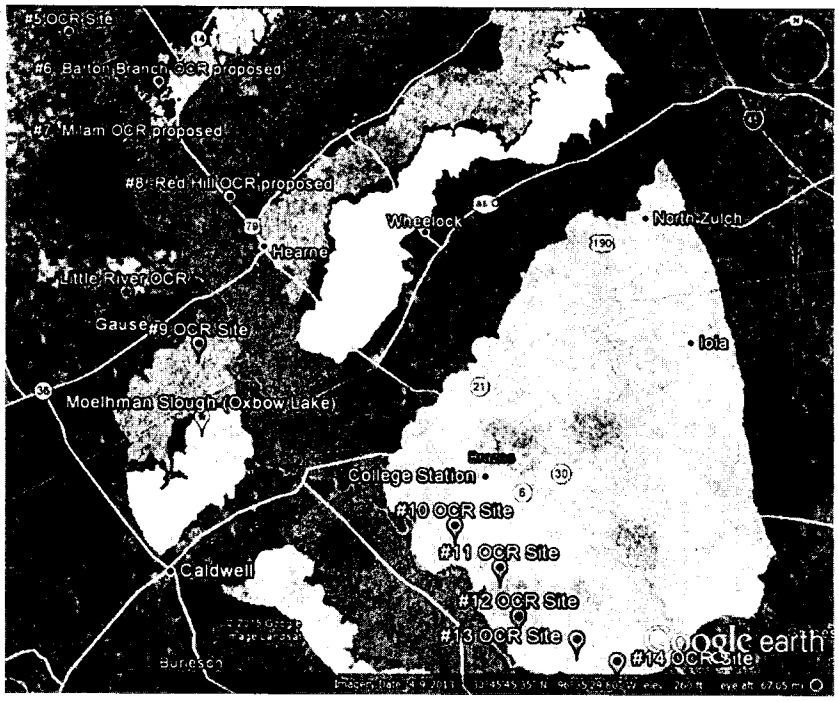
b) Cultural Significance: Of the two OCR sites selected for further evaluation in the 2016 RWP, the Little River OCR and the Milam County OCR are part of the El Camino Real de las Tejas National Heritage Trail system.



c) Geology: The placement of all the OCRs sites lay just outside Brazos Alluvium aquifer's boundaries. Many are positioned over several major/minor lateral aquifer recharge zones. The construction of reservoirs and pipelines along these upland streams will certainly be detrimental to the areas' ecosystems. Pumping excess flow from the river's main stem will also have direct adverse effects on the river downstream.

Building any of these OCRs over aquifer recharge zones seems risky to the health of the aquifer. These permeable sands will make sealing these impoundments difficult if not very costly. In all probability, these containments will be expensive vicious cycles of water traveling from river > reservoir > aquifer > river. There are better places to build reservoirs for the BRA downstream, closer to the needs of their customers. All of the identified sites in Milam, Robertson and Brazos Counties are over aquifer recharge zones.

(1) Barton Branch – Simsboro outcrop
(2) Milam OCR – Hooper outcrop
(3) Liver River OCR and Red Hill OCR site – Carrizo outcrop
(4) #9 OCR in Milam – Queen City outcrop
(5) Five southern sites in Brazos Co. – Yegua-Jackson outcrop
(6) Falls County appears to have similar issues but I am not as familiar with their landscape.



Recharge Zone boundaries from Brazos Valley GCD Maps

- Brazos River Alluvium
- Hooper
- Simsboro
- Calvert Bluff
- Carrizo (outcrop)
- Queen City (outcrop)
- Sparta (outcrop)
- Yegua-Jackson
- Gulf Coast

d) Water Quality: The Brazos River pulse flows contain a lot of silt that will undoubtedly end up in these reservoirs along with whatever upstream contaminants it might contain. On a more routine basis, the River has interconnectivity with these aquifer outcrop reaches. Disturbing this base flow, as defined as the amount of water entering a stream channel from groundwater sources, is a significant concern. A USGS Base Flow Loss/Gain 2006 report states: "Hydrograph separation and graphical evidence from base flow indices (BFI) values indicate an appreciable increase in base flow as a percentage of streamflow in the reach of the Brazos River that crosses the outcrops of the Carrizo-Wilcox, Queen City, Sparta, and Yegua-Jackson aquifers compared to that in the adjacent upstream reach (on average from about 43 percent to about 60 percent)." Regulated flow initiated from

impounded reservoir water cannot replace the quality or mimic the temperature of the aquifers' base flow contributions.

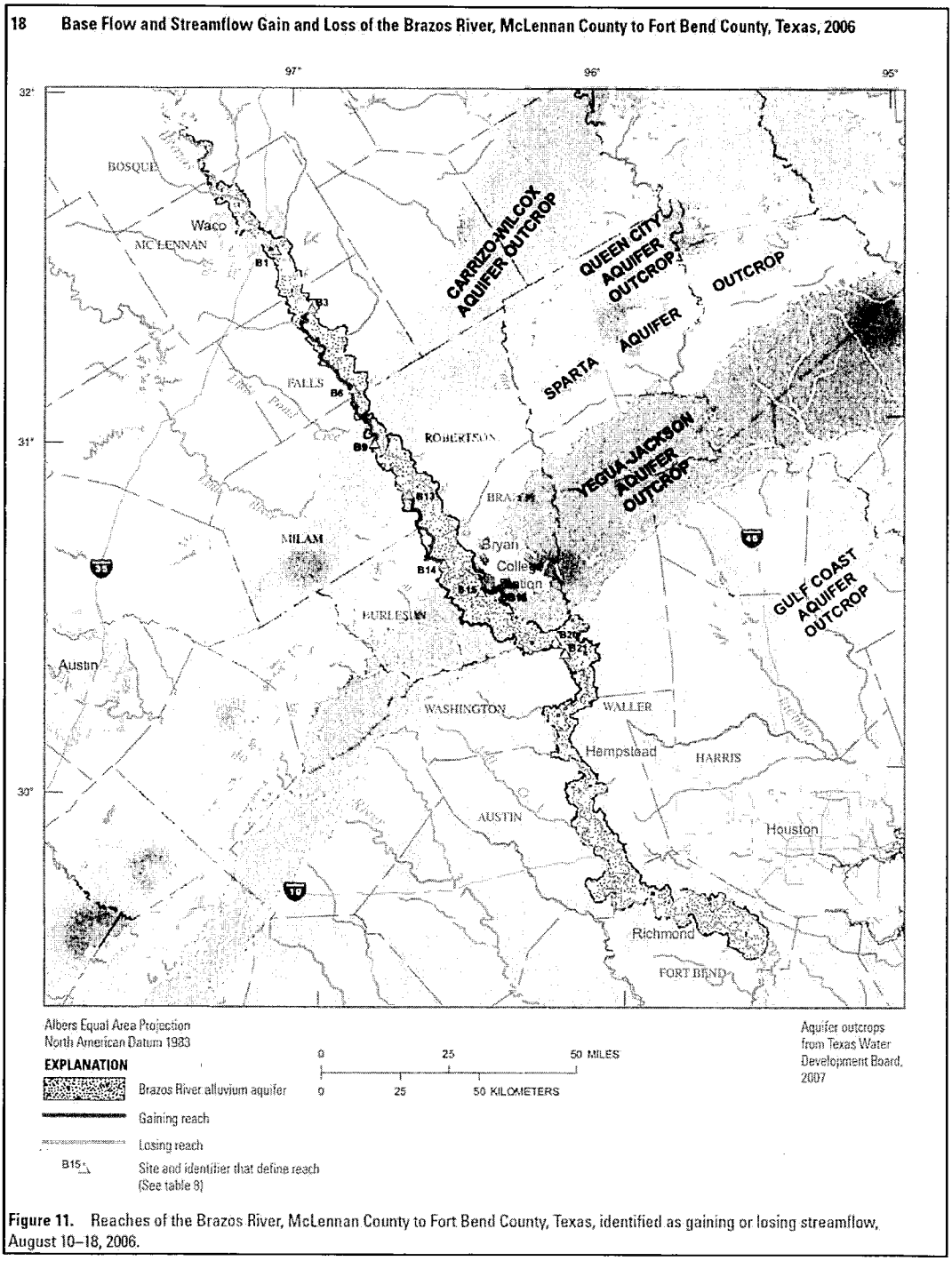


Figure 11. Reaches of the Brazos River, McLennan County to Fort Bend County, Texas, identified as gaining or losing streamflow, August 10–18, 2006.

e) Event timing: I am concerned that Brazos WAM has omitted Control Points (CP) or Measuring Points (MP) of these very significant outcrop reaches. Should these points be included, they may very well create deviations in current simulation models. I believe it is important to continue monitoring these stream locations and include them in the Brazos WAM simulations when considering the environmental flow scenarios:

a. Brazos River near Golinda, TX (Falls County)
b. Brazos River at Highbank, TX
c. Brazos River at FM979 near Calvert, TX
d. Brazos River at FM485 near Hearne, TX
e. Brazos River at Valley Junction, TX

Please allow me to share a simple story of man's attempt at steam navigation of the Brazos. Because of its central location and the rather large productive cotton and sugarcane plantations along its banks, planters and merchants were eager to access the waterways for commercial transportation.

The US Army Corps of Engineers examined the Brazos from Waco to its mouth at the Gulf of Mexico in 1874. Their report to Congress is recounted below from Puryear and Winfield's book *Sandbars and Sternwheelers*.

> "...the party met the first obstacle – a formidable nest of boulders known as the Rock Dam—only thirteen miles below Waco. A channel was traced through the maze, and the party the proceeded cautiously downstream.
>
> Twenty-seven miles below the Rock Dam, another barrier was discovered, a flat bed of limestone that spanned the river for almost a mile, terminating in an abrupt fall of five feet. This, too, was finally traversed, but with considerable difficulty.
>
> On the ninth day the convoy reached Upper Blue Shoals, fifty-one miles below Waco. Only three inches of water covered the rocks.
>
> .... Once more afloat, the survey party encountered other shoals in discouraging succession: the scattered boulders of Curley's, the sandstone ridges of Calvert's, the packed sand and gravel of Hernden's. On the thirteenth day the weary navigators reach Sullivan's Shoals, where vertical banks and a narrow, boulder-strewn channel gave the river bed the appearance of a stone quarry. Extra help was recruited to unload the boats and organize a portage around the obstruction.

> Still a different formation awaited the explorers at Niblin's, twenty-six miles below Port Sullivan. Here the shoals consisted of limestone intermixed with lignite, with an abrupt fall of two feet at the lower end.
>
> ... The official opinion of the Corps of Engineers was devastatingly brief. The expense of rendering the Brazos navigable at all seasons was completely unwarranted."

In spite of the above report, the government was persuaded to survey the River again for potential slack-water navigation in 1895.

> "The second survey ... was even more discouraging than the first and indicated that *'in many places* [the Brazos] *would not float a skiff.'* Congress was informed that the only method of achieving regular navigation was by the construction of a series of locks and dams, and even with these in place it was doubted that sufficient water would be available.
>
> ... With that easy rationalization which must ever baffle its constituency, Washington officialdom solemnly decreed that a navigable Brazos was merely expensive, not impossible.
>
> ...The project was a complete and utter failure. Anyone who knew the Brazos, from the longest-whiskered river-rat to the stateliest aristocrat of the bordering cotton fields, could have foretold the result before the first sack of cement was opened. The disastrous flood of 1913 completely wrecked the work completed and under construction and, by cutting new channels across the necks of narrow bends, left some of the dam sites humiliatingly high and dry. World War I came in the nick of time to provide an excuse for abandoning the idea, and all plans for navigation of the Brazos were laid to rest. The muddy river was allowed to wind its way to the sea unmolested..."

My point of recalling the above story is not to highlight the woes of river navigation, but to emphasize the River's history and what anyone from Robertson County will tell you, our part of the Brazos does not have enough water to fill any reservoir in this County. The Brazos River from Highbank to FM485 (Port Sullivan) is fed by only one minor tributary, Little Pond Creek. It eastern watershed is buffered by the Little Brazos River running parallel to its banks and does not converge into the Brazos until below SH21 near Bryan. This stream segment is historically riddled with visible sandbars and shoals for very long periods of time. High pulse events are very rare, minimal in duration, and not dependable on an annual basis.

Certainly, the Brazos River Authority can regulate the flow to create a high pulse event a couple of times a year, but I would argue that this is not the environmental flow that Nature intended.

Trey Buzbee

From: BrazosG@brazosgwater.org
Sent: Wednesday, June 24, 2015 9:33 PM
To: ZZ Brazos G
Subject: Brazos G Question/Comment

Name:
Sherry Hughes Garner

Question/Comment:
It is wrong to wash away a family cemetery. The Ditto family members who are buried there are part of the Ditto family of Alabama whose ancestor ferried Andrew Jackson across the Tennessee River to go to the Battle of New Orleans. This branch of the Ditto/Hughes/Davidson family has been in Texas for a century. You must at the very least respectfully relocate the bodies.

Email:
sgarner819@charter.net

Phone:
334/202-0417

Preferred Method of Contact:
Email

Trey Buzbee

From: BrazosG@brazosgwater.org
Sent: Wednesday, June 24, 2015 4:57 PM
To: ZZ Brazos G
Subject: Brazos G Question/Comment

Name:
Tommi Ivey

Question/Comment:
PLEASE DO NOT put a Reservoir where my great great grandparents are buried! My Great great great great grandparents are also buried at the Pin Oak Cemetery in Milam County. This has been their final resting place for over 150 years. How would you like it if I purposed moving your family. Besides most of them were so poor they had no real coffin so to move them would be costly and desecrate their remains! As a historian and genealogist I beg you to find another area!

Email:
illflyaway21@yahoo.com

Phone:
214-715-5656

Preferred Method of Contact:
EmailPhone

Trey Buzbee

From: C Theis <theis@centurylink.net>
Sent: Saturday, June 27, 2015 12:33 PM
To: wlwilson@tconline.net; peek@thetexasfirm.com; Phil Ford; dale.adams@co.nolan.tx.us; waterman.cb@gmail.com; mtgcd1@centurylink.net; Tim.brown@co.bell.tx.us; Jim.Briggs@georgetown.org; cox@granbury.org; tfloyd@srcaccess.net; zholland@bluebonnetgroundwater.org; kgkinard@abilene.com; mmcguire@rpgcd.org; gnewman@trio-dev.com; Tommy O'Brien; jbp49@icloud.com; spicer@luminant.com; dale.spurgin@co.jones.tx.us; co_judge@burlesoncounty.org; klwagner@ag.tamu.edu; Jkweldon2@gmail.com; gwestbrook@posgcd.org
Cc: lann.bookout@twdb.texas.gov; Trey Buzbee
Subject: COMMENTS - BRAZOS G INITIALLY PREPARED PLAN FOR 2016.
Attachments: Comments Brazos G 2016 IPP.docx

Brazos G Regional Water Planning Group:

My comments on the 2016 Brazos G Initially Prepared Plan are attached.

Thank you.

Colby Theis
Robertson County

Comments on Brazos G 2016 Initially Prepared Plan

Specific Request = Remove Little River Off-Channel Reservoir from any list maintained by the Brazos G Water Planning Group.

"Fourteen sites along the Brazos River between Lake Waco and Lake Somerville were identified as possible locations for an OCR project. The OCR would impound diversions of unappropriated streamflow from the Brazos River. The locations of the 14 identified sites are shown in Figure 4.8-1. Each site was evaluated based on conservation storage capacity, storage efficiency (in order to minimize losses from evaporation), and potential conflicts." [1]

"Of the 14 identified sites, the two most favorable sites were selected for yield and cost analyses to determine the preferred site. The two sites selected were the Little River and Milam County OCR sites. These two sites would divert and store water from the Brazos River and deliver supplies to Granger Lake for treatment and inclusion in the BRA system operations supplies." [1] *[See Figure 1 for the two OCR's locations.]*

Brazos G chose Little River OCR over Milam County OCR.

I disagree with that choice – the following discussion documents why I believe Milam County OCR should be chosen over Little River OCR.

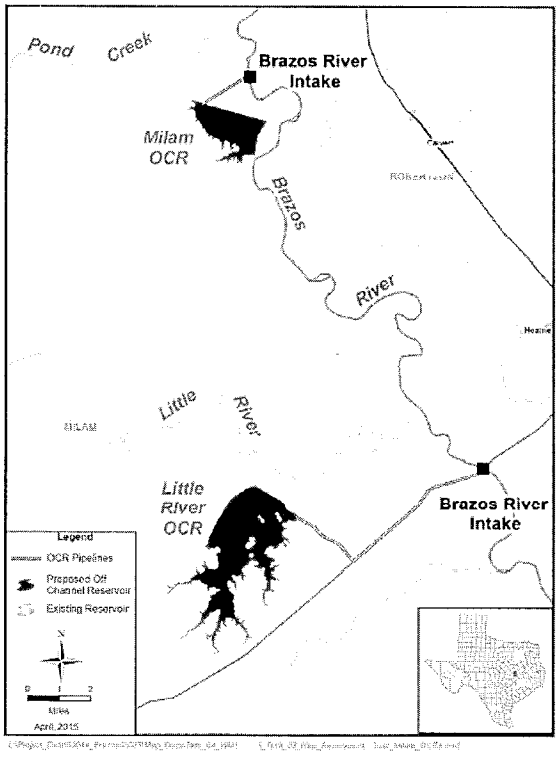


FIGURE 1 [2]

Table 1 allows the direct comparison of a series of parameters for the two OCRs. Based on those parameters, the "preferred" OCR is selected and displayed in the last column.

TABLE 1:

PARAMETER	MILAM COUNTY OCR	LITTLE RIVER OCR	PREFERRED
Firm Yield	19,600 ac-ft/y	56,150 ac-ft/y	Little River
Inundated Area	1,507 ac	4,343 ac	Milam County
Storage Capacity	55,133 ac-ft	155,812 ac-ft	Little River
Intake Pipe	2 miles – 84 in dia.	8 miles – 144 in dia.	Milam County
Intake Pump Size	4,500 hp	25,000 hp	Milam County
Construction Cost	$104 million	$249 million	Milam County
Annual Cost	$11 million	$23 million	Milam County
Cost of Raw Water	$567/ac-ft	$625/ac-ft	Milam County
Miles to Granger Lake	37	34	Little River
Creeks Lost	0	At least 5	Milam County
Cemeteries Lost	0	At least 1	Milam County
National Historic Trails Flooded	0	1	Milam County
County Roads Lost	0	1	Milam County
State Roads Relocated	0	1	Milam County
Properties Flooded	5	At least 50	Milam County
Market Value of Properties Flooded	$4.5 million	$26.1 million	Milam County
Houses Flooded	0	At least 20	Milam County
Local Opposition	?	Extreme	Milam County

CONCLUSION FROM TABLE 1:

The data displayed in Table 1 support the conclusion that Milam County OCR is the preferred OCR. For 15 of the 18 parameters, Milam County OCR is "preferred" over Little River OCR.

Other problems that were noted to be specific to Little River OCR:

- Length of dam for Little River OCR: In the IPP, the Little River OCR dam is described as one mile long. However, when I traced the footprint of the reservoir using the 400-foot msl contour lines on a topographical map, I found that the length of the dam would have to be close to three miles.
- Harmful effects on the Little River caused by Little River OCR: Construction of Little River OCR will cover up at least five (5) named creeks (Alligator, Beaver, Jess Hood, Pin Oak, and Yellow Rabbit) which normally feed into the Little River.

The effects on aquatic life in this segment of the Little River (a TCEQ Designated Stream Segment) will be significant.

- Harmful effects on the five named creeks (Alligator, Beaver, Jess Hood, Pin Oak, and Yellow Rabbit) by Little River OCR: Not only will these creeks cease to be in existence behind the dam, but below the dam you estimate that the flows will be reduced to zero. Little River OCR will greatly harm these creeks.
- In contrast, there are no creeks affected by Milam County OCR.

In addition to the comparisons made in Table 1, the following two comparisons between the two OCRs again indicate that Milam County OCR should be the preferred OCR:

- The following statement is in the 2011 Brazos G Regional Water Plan September 2010 [3]: *The primary disadvantage of an off-channel reservoir is the requirement for a pump station and pipeline system to divert water from the primary stream to the off-channel reservoir site, which causes operation and maintenance costs to be generally higher than operation and maintenance of an on-channel reservoir.* Using this logic, it makes sense that the closer the off-channel reservoir is to its supply stream, the lower the operation and maintenance costs. Milam County OCR is less than two miles from the Brazos River – while Little River OCR is more than eight miles from the Brazos River. Milam County OCR is preferred because of its location near the Brazos River.
- Another important advantage of Milam County OCR being close to the Brazos River is that stored water could be easily released back into the Brazos River and be transported to water user groups using "bed and banks" permits. In fact, this hydrological advantage could be used to eliminate the need for Peach Creek OCR south of College Station since Peach Creek OCR's firm yield is only 4,000 ac-ft/y. Peach Creek OCR's construction cost ($67 million) and annual cost ($6 million) are just a little less than the construction and annual costs determined for Milam County OCR even though Milam County OCR's firm yield is five times higher than Peach Creek OCR's firm yield.

References:

1. Initially Prepared 2016 Brazos G Regional Water Plan | Volume II - New Reservoirs | Main Stem Off-Channel Reservoir - May 2015 | 4.8-1
2. Initially Prepared 2016 Brazos G Regional Water Plan | Volume II - New Reservoirs | Main Stem Off-Channel Reservoir - May 2015 | Figure 4.8.2
3. 2011 Brazos G Regional Water Plan September 2010 | 4B.13-2

Trey Buzbee

From: Texas Rain <texas.rain@centurylink.net>
Sent: Tuesday, July 07, 2015 12:15 PM
To: wlwilson@tconline.net; peek@thetexasfirm.com; Phil Ford; dale.adams@co.nolan.tx.us; waterman.cb@gmail.com; mtgcd1@centurylink.net; Tim.brown@co.bell.tx.us; Jim.Briggs@georgetown.org; cox@granbury.org; tfloyd@srcaccess.net; zholland@bluebonnetgroundwater.org; kgkinard@abilene.com; mmcguire@rpgcd.org; gnewman@trio-dev.com; Tommy O'Brien; jbp49@icloud.com; spicer@luminant.com; dale.spurgin@co.jones.tx.us; co_judge@burlesoncounty.org; klwagner@ag.tamu.edu; Jkweldon2@gmail.com; gwestbrook@posgcd.org; lann.bookout@twdb.texas.gov; Trey Buzbee
Subject: Note for the members of the Brazos G Water Planning Group.
Attachments: Stop Little River OCR at Waco.doc

I am sending you a copy of a newspaper report about the *Public Hearing on Initially Prepared 2016 Brazos G Regional Water Plan* held on June 23.

The report was published in the June 25 edition of Milam County's *The Cameron Herald.*

Extreme opposition to the inclusion of the Little River Off-Channel Reservoir using the Brazos River as the source water was expressed at the meeting. Over 160 people made the trip from near Gause, Texas, to Waco to express their opposition on June 23.

My report reflects the extreme opposition and provides insight to the landowners' concerns.

Thanking you for taking the time to read the attached report,

Curtis Chubb, Ph.D.
Milam County, Texas

Trey Buzbee

From: Cathy Lazarus <clazhome@msn.com>
Sent: Monday, July 20, 2015 1:49 PM
To: Wayne Wilson; Trey Buzbee
Cc: Alan Day
Subject: Region G IPP Comments
Attachments: Comments RWPG IPP 2016.v2.pdf

Good Afternoon,

Thank you for this opportunity to comment on the Initially Proposed Plan for the Region G Water Planning Group.

Please let me know if you have any difficulty with the attachment.

Sincerely,

Cathy Lazarus
979-814-0733

COMMENTS AND RECOMMENDATIONS ON THE LITTLE RIVER OFF-CHANNEL RESERVOIR AS DESCRIBED IN THE "INITIALLY PREPARED 2016 BRAZOS G REGIONAL WATER PLAN"

Mike Conner
PO Box 8, Gause, TX 77857
mike@conner.net

1 RECOMMENDATIONS

The justification for these recommendations is explained in detail starting in Section 2 below. A list of errors and/or anomalies in the plan is given in Section 4 below.

1.1 REMOVE THE LR-OCR FROM THE RECOMMENDED LIST IN THE 2016 PLAN

The very high relative cost of the LR-OCR combined with the extreme risks to implementation and effectiveness make the LR-OCR an unsuitable solution to the water needs identified in the plan. Given the high risks to completion it is necessary to develop alternative approaches anyway. Those approaches (most likely more aggressive conservation combined with aggressive waste water reuse) should be the recommended solutions. The very real risk that the LR-OCR would not be effective if completed due to leakage through the underlying aquifer recharge zone makes pursuing the LR-OCR project now or in the future unconscionable. Conservation and waste water reuse are better, lower cost, lower risk alternatives to the LR-OCR.

1.2 REMOVE THE LR-OCR AREA FROM THE UNIQUE RESERVOIR SITES LIST AND FROM EVALUATION IN FUTURE WATER PLANS

The arguments given above against the LR-OCR will not change in the future. Its makes no sense to list a reservoir with a 40% overlap of a major aquifer's recharge zone as a possible solution. It certainly does not meet the criteria for a Unique Reservoir Site and it does not justify the expense of continued evaluation in the future. It should be removed completely from the 2021 and subsequent water plans.

2 RISK ANALYSIS

This section presents a number of risk factors that could prevent the LR-OCR from being constructed or compromise its utility if it is constructed. These are presented to support our recommendations.

2.1 OVERLAP WITH THE AQUIFER RECHARGE ZONE

About 40% of the planned LR-OCR Reservoir is over the Carrizo-Wilcox aquifer outcrop. This means the reservoir may "leak" into the aquifer. Testing can show that this is true, but cannot really prove that it won't happen. Too little is known about the underlying geology and about surface water/groundwater interaction to insure that major leaking will not occur after 10 or 20 years. This is especially true as the underlying aquifers are barely pumped today, but will be very heavily pumped in the decades to come. So even if testing predicts an acceptable level of leakage, this could increase over time rendering the reservoir nearly useless, but leaving the BRA and LR-OCR Users with nearly 500 million in capital costs. And, of course, all the damage to the community and environment cannot be recovered.

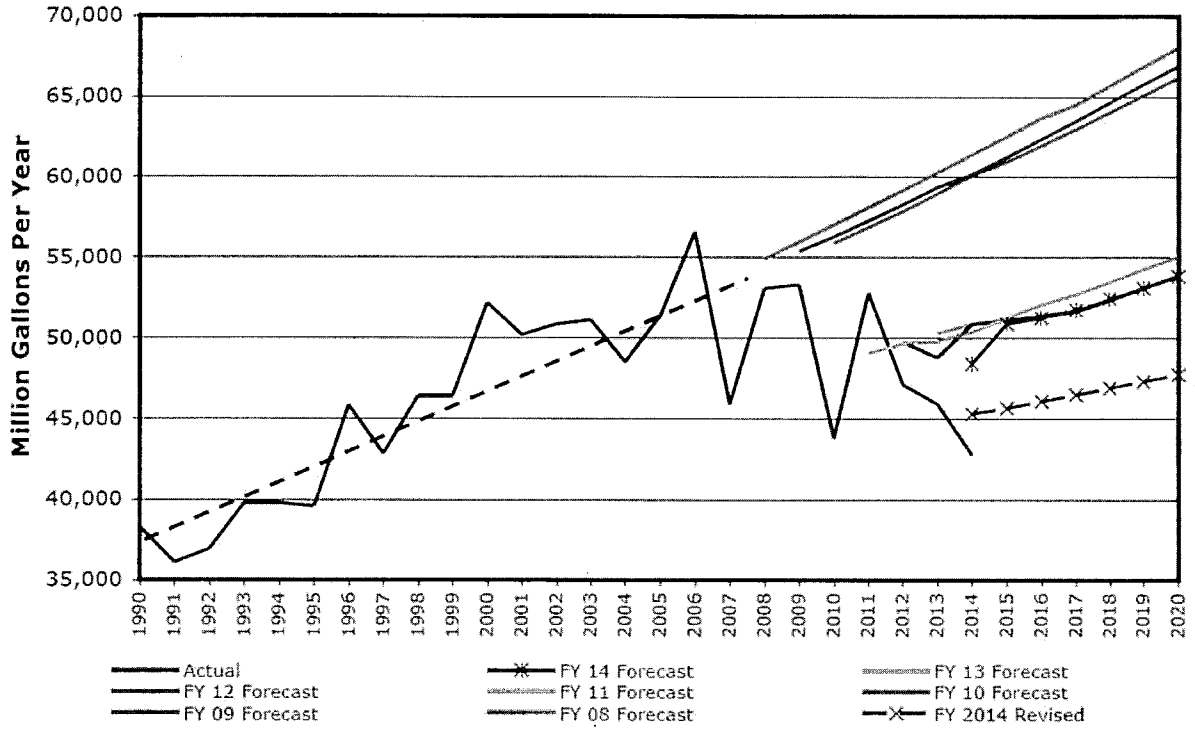
2.2 PERMITTING

The Army Core of Engineers requires a reservoir to be the least damaging of all practicable alternatives. As 95% of the growth in Williamson County water needs in 2070 comes from metropolitan use it is clear that more aggressive conservation, combined with waste water reuse, are practicable solutions to Williamson County's predicted future water shortages, and these solutions would be dramatically less damaging than the LR-OCR. Therefore, given the high level of scrutiny from the community impacted by the LR-OCR, the Army Core of Engineers would not be able to issue a permit to build the LR-OCR.

2.3 REDUCED NEED

There is good evidence that water planners underestimate the future benefits of conservation. The chart below, compiled by Bill Bunch, a leading Austin environmental lawyer, shows that Austin's water planners have had to continually reduce their forecasts for future water needs because conservation has continually out performed expectations. This means that the costs of LR-OCR could be passed on to water users that don't actually need the water.

Chart 1: Austin Water Utility Predictions and Trends vs Actual Use Volume



2.4 LAND OWNER RESISTANCE

The first community meeting to organize resistance to the LR-OCR drew about 140 people (a very substantial fraction of the entire community that would be impacted by the LR-OCR). At the Brazos G Public Input Meeting on June 23, 2015 the number of attendees filled the meeting and overflow rooms. Almost all of these people were there to protest the LR-OCR. Virtually every one of the 2-hours' worth of presentations was to protest the LR-OCR. Much of the land has been held by the same family for many generations. The landowners, in general, made it abundantly clear that they were not interested in selling their land at any price. Therefore, eminent domain condemnation will be necessary to acquire the more than 4,300 acres to the flooded by the reservoir. Three highly respected lawyers (two with extensive environmental law experience) have stated that "Sec. 21.0121. CONDEMNATION TO ACQUIRE WATER RIGHTS" of Texas property law (copied with markup below) would apply to any condemnation actions taken to support the reservoir.

This section gives land owners very strong rights to resist condemnation. Note that conservation must be "developed and implemented," not just planned. There seems to be no reason why Region H municipalities cannot achieve the level of water conservation achieved, say, in parts of Albuquerque, NM where all the houses have xeriscape lawns. This would reduce "consumed" water drastically, allowing conservation and especially reuse to easily meet their needs.

Note also, that the law places the burden of proof on the political subdivision not on the landowner and the court is ***required*** to deny condemnation unless all the criteria are met.

Thus, given the overwhelming landowner determination to retain their land, and the very high bar set for condemnation, it is very unlikely that the necessary land for the LR-OCR can be acquired.

> ***Sec. 21.0121.*** *CONDEMNATION TO ACQUIRE WATER RIGHTS. (a) In addition to the contents prescribed by Section 21.012(b), a condemnation petition filed by a political subdivision of this state for the purpose of acquiring rights to groundwater or surface water must state that the facts to be proven are that the political subdivision has:*
>
> *(1) prepared a drought contingency plan;*
>
> *(2) developed and implemented a water conservation plan that will result in the highest practicable levels of water conservation and efficiency achievable in the political subdivision's jurisdiction;*
>
> *(3) made a bona fide good faith effort to obtain practicable alternative water supplies to the water rights the political subdivision proposes to condemn;*
>
> *(4) made a bona fide good faith effort to acquire the rights to the water the political subdivision proposes to condemn by voluntary purchase or lease; and*
>
> *(5) made a showing that the political subdivision needs the water rights to provide for the domestic needs of the political subdivision within the next 10-year period.*
>
> *(b) A court shall deny the right to condemn unless the political subdivision* ***proves []*** *to the court that the political subdivision has met the requirements of Subsection (a).*
>
> Added by Acts 2003, 78th Leg., ch. 1032, Sec. 1, eff. Sept. 1, 2003.

2.5 Environmental and Cultural Issues

Other people have explained in detail the environmental and cultural risks associated with building the LR-OCR including:

- Over 1.5 miles of the El Camino Real de los Tejas National Historic Tail would be submerged.
- A 150+ year old cemetery would be flooded.
- Numerous sites with extensive ancient cultural artifacts would be flooded.
- Many miles of pristine creek bed would be destroyed.
- About two thousand acres of prime wildlife habitat would be destroyed.

Mitigation delays and costs would be enormous, and there is the real possibility that the project would not get all its necessary permits.

3 COST/BENEFIT ANALYSIS OF LR-OCR

This section presents a cost/benefit analysis of the plan to support our recommendations that follow. The plan gives the following project costs:

Reservoir Related Costs	
Total Cost of Construction	$ 248,761,000
Fixed Annual Costs	$ 20,932,000
Annual Costs That Directly Scale With Water Usage	$ 2,256,000

Delivery Related Costs	
Total Cost of Construction	$ 238,850,000
Fixed Annual Costs	$ 24,416,500
Annual Costs That Directly Scale With Water Usage	$ 11,322,861

In the above I divided the annual costs into those unrelated to the amount of water pumped and those that might vary based on the amount of water pumped. To be conservative in my cost estimates I assumed that the part of annual cost that varies with water usage varies in direct proportion to the amount of water used. I.e. if half the maximum yield is used then only half the variable cost would be incurred.

3.1 FUNDING MODEL

Based on the plan cost tables I assume g that BRA pays for the reservoir and sells water to the LR-OCR Users at its system rate. And, that LR-OCR Users pay for delivery related costs (pipeline to Williamson County, water treatment plant, etc.).

3.2 IMPACT TO BRA SYSTEM RATE

In 2014, BRA had 294,506 ac-ft under its system rate contract, out of 669,225 ac-ft under all contracts. By 2019 they hope to have 388,993 ac-ft under its system rate contract. In order to be conservative and allow for increased use of the system rate contract and allow for changes in rate of other adjustable rate contracts, I used 500,000 ac-ft/year as the amount under the system rate contract.

With this assumption BRA would have to distribute their share of annual costs over 500,000 ac-ft/year which comes to about $45 per ac-ft as the LR-OCR Users start to increase their usage in 2060. **This would mean more than a 65% increase to BRA current system rate** of $69.50 per ac-ft/year.

3.3 COMPARISON TO ALLENS CREEK RESERVOIR

BRA is currently pursuing the construction of a reservoir on Allens Creek. This reservoir would have a yield of 100,000 ac-ft/year at a cost of $195,000,000. This gives a construction cost of $1,950 per ac-ft/year verses a cost of 4,430 per ac-ft/year for the LR-OCR. Thus the LR-OCR is very expensive for the amount of water produced verses a currently planned reservoir.

3.4 COST TO LR_OCR USERS

The following table shows the cost of water from the LR-OCR to the LR-OCR Users. It shows that the cost of water is extremely high, at least until 2060.

Decade	2020 2030	2040	2050	2060	2070
Annual Cost to LR-OCR Users	$25,153,455	$26,516,541	$28,208,187	$31,063,328	$35,739,361
Cost per acre foot to LR-OCR Users	$ 9,528	$3,525	$2,077	$1,305	$881
Cost per 1000 gallons to LR-OCR Users	$ 29.24	$ 10.82	$ 6.37	$ 4.00	$ 2.70

The following shows the impact on The City of Hutto, based on Hutto having to cover 21% of the LR-OCR Users costs. The table uses data from the Texas Water Development Board for Hutto's project water needs. It show what dollar cost would have to be added to Hutto's water rates (assuming the cost was distributed equally over all water users) and what the percentage increase that cost would be over Hutto's current $6.98 rate.

Decade	2020	2030	2040	2050	2060	2070
Projected water needs	3,767	5,189	6,992	8,937	11,144	13,428
Projected water shortages		378	2,121	4,001	6,215	8,499
Increase in water cost to Hutto users per 1000 gallons		$ 4.85	$ 3.79	$ 3.16	$ 2.79	$ 2.66
% Increase (based on $6.98 rate)		69%	54%	45%	40%	38%

This shows that impact on utility customer will be very high even in 2070 and extremely high prior to 2050.

3.5 SUMMARY

The LR-OCR is a very expensive, inefficient reservoir. It would have a major impact on water utility customer's rates and an unreasonable (for the benefit derived) impact on BRA's system rate contract users. There must be better alternatives.

4 ERRORS/ANOMALIES

There are a number of errors and/or anomalies described below. Some of the specified "corrections" are used in the following sections of this document.

4.1 TABLE 5.36-19 REGARDING WILLIAMSON COUNTY – OTHER

Table 5.36-19 Currently Reads:						
Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	20,000	20,000	20,000	20,000	20,000	20,000

The Table Should Read:						
Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	(27)	2,262	5,402	5,242	9,890	14,243

The revised numbers, above, are derived directly from the projected shortages in the table minus to supply to be derived from other sources.

4.2 TABLES FOR LR-OCR USERS DO NOT SHOW CONSERVATION SAVINGS

None of the tables for LR-OCR Users (Milam County – Steam Electric, Chisholm Trail SUD (Williamson County), Round Rock (Williamson County), City of Hutto (Williamson County), and Williamson County – Other) show any savings over the decades from conservation. For example:

Table 5.36-9. Recommended Plan Costs by Decade for City of Hutto

[illegible]	2020	2030	2040	2050	2060	2070
Projected Surplus/(Shortage) (acft/yr)	*(2,256)*	*(3,678)*	*(5,481)*	*(7,426)*	*(10,193)*	*(12,477)*
Conservation						
Supply From P an Element (acft/yr)	—	—	—	—	—	—
Annua Cost ($/yr)	—	—	—	—	—	—
Projected Surplus/(Shortage) after Conservation	*(2,256)*	*(3,678)*	*(5,481)*	*(7,426)*	*(10,193)*	*(12,477)*

Either all conservation savings have already been factored in. In which case they should be factored out to be consistent with the rest of the plan and for transparency. Or, no advanced conservation strategies have been planned. In which case they should be added and the projected shortages after conservation should be adjusted.

4.3 TABLE 5.38-3 HAS WRONG VALUES FOR SUPPLY FROM LR-OCR

Table 5.38-3 Currently Reads:						
Plan Element	2020	2030	2040	2050	2060	2070

Supply From Plan Element (acft/yr)	56,150	56,150	56,150	56,150	56,150	56,150

It Should Read:						
Plan Element	2020	2030	2040	2050	2060	2070
Supply From Plan Element (acft/yr)	15,588	15,588	15,588	15,588	15,588	15,588

This table occurs in the plan document in the context of how the projected BRA LR System shortages can be supplied. As the plan commits 40,562 ac-ft to LR-OCR Users, it is not available to meeting BRA LR System shortages.

4.4 Unrealistic Completion Date

Section "5.38.2 Brazos River Authority (Little River System)" gives a completion date for the LR-OCR of "before 2020". Section "5.36.25 County-Other" gives a completion date of 2020. These dates are completely unrealistic and should be moved out. We recommend, below, that these dates be set to 2060 or 2070, but certainly no sooner than 2050.

4.5 Dam Size Error

Section "4.7.1 Description of Option" says the dam for the LR-OCR would be approximately 1-mile long. This appears to be a typo as the dam would be approximately 3.5 miles long.

Little River Off Channel
Comments
Scanned in
Aug 25, 2015

Trey Buzbee

From: Gary Westbrook <gwestbrook@posgcd.org>
Sent: Monday, August 24, 2015 11:04 AM
To: Trey Buzbee
Subject: Comments for Brazos G IPP- LROCR
Attachments: INTERA_OCR_brief_v2_8-21-15.pdf

Hello Trey,
Our District performed several studies on the proposed Little River OCR. Please accept my presentation of June 23 as one comment on the LROCR. Please accept the attached document as a second comment on the LROCR.
Please do not hesitate to call with any questions.

Sincerely,

Gary Westbrook
General Manager
Post Oak Savannah Groundwater Conservation District
phone: 512-455-9900 cell: 979-571-5761
fax: 512-455-9909 email: gwestbrook@posgcd.org
website: www.posgcd.org

INTERA
GEOSCIENCE & ENGINEERING SOLUTIONS

INTERA Incorporated
1812 Centre Creek Drive, Suite 300
Austin, Texas, USA 78754
512.425.2000

August 19, 2015

Mr. Gary Westbrook, Manager
Post Oak Savannah Groundwater Conservation District
P.O. Box 92
Milano, Texas 76556

Re: Evaluation of Impacts of Proposed Little River Reservoir on Groundwater

Dear Gary:

INTERA has evaluated the potential impacts from the Little River Off-Channel Off-channel Reservoir on groundwater resources in Milam County.

Our analysis indicates that the after the reservoir is filled, leakage out of the reservoir into the groundwater system will be more than 10 times greater than the recharge rate that occurred across the footprint of the reservoir before the reservoir was built. The increase in recharge rate will caused two changes in the groundwater system. One change is that the water table levels in the aquifer will rise over 100 feet and the other is that groundwater quality will change. The latter impact is a concern because the Brazos River has a much lower water quality than the Carrizo Aquifer.

In the vicinity the proposed reservoir, the Carrizo aquifer produces some of the best water in the state of Texas. The groundwater has low total dissolved concentration (TDS) (~180 ppm) , low hardness (~ 60 ppm), no color or odor problems, has no evidence of anthropogenic contamination, and only needs to be chlorinated before it meets drinking water standards. On the other hand, the Brazos River typically has TDS concentrations above 500 ppm, has hardness concentrations above 180 ppm, may contain man-made chemicals, and needs to be treated extensively before it meets drinking water standards.

To provide perspective on some of the differences in concentration, the EPA secondary drinking water standard for TDS is 500 ppm and the USGS considers water with hardness concentration over 180 ppm as "very hard." The EPA standard means that some people will experience taste and order problems with water containing more than 500 ppm TDS. Very hard water requires that there will be more problems with washing clothes with detergents and with scaling in boilers and industrial equipment.

Another water quality concern is man-made compounds. Over the last two decades, reports have documented the presences of a wide range of organic chemicals in waterways in the United States and Texas at low concentrations Among the man-made compounds of concern are pharmaceutical drugs; hormones, herbicides, pesticides, and organic solvents/chemicals. Several studies in Texas have reported that these type of compounds are becoming an increasing problem. Among the reasons why the introduction of these chemicals into groundwater is a concern is that groundwater undergoes minimal treatment, if any, before it is used by residences.

Because the Little River Reservoir will degrade the quality of the groundwater in the vicinity of its footprint, INTERA recommends that an appropriate study be conducted to address this concern prior to considering the Little River Reservoir as a water supply strategy.

Sincerely,

Steve Young, PG, PE. Ph.D
Principal Hydrogeologist

Trey Buzbee

From: bezanson@texas.net <janicecrumpbezanson@gmail.com>
Sent: Monday, August 24, 2015 1:22 PM
To: Trey Buzbee
Subject: comments on Brazos G IPP
Attachments: TCA, FBR Comments on Brazos G IPP, with attachment.pdf

Good afternoon, Trey,

Please accept the attached comments from Texas Conservation Alliance and Friends of the Brazos River on the Brazos G Initially Prepared Plan.

Since the deadline is today, we would appreciate your confirming receipt of our comments.

Thank you,

Janice

Janice Bezanson, Executive Director
Texas Conservation Alliance
254-947-5572, Cell 512-327-4119
bezanson@texas.net
TCAtexas.org

Comments on the Brazos G Initially Prepared Plan
Submitted by Texas Conservation Alliance
And Friends of the Brazos River

Texas Conservation Alliance (TCA) and Friends of the Brazos River (FBR) appreciate the opportunity to comment on the Brazos G Initially Prepared Plan.

City of Abilene

Abilene's Future Demand

Table 4.3-13 in the Brazos G IPP projects that in 2070 Abilene will have a demand for treated water of 30,060 AFY and a demand for additional raw water of 29,021 AFY.

This latter figure includes 10,000 AFY of "demand" attributed to the West Texas Water Partnership. The only other reference to this partnership TCA and FBR could find in the Brazos G IPP is contained in Section 1.12 on Page 1-59:

> The City of Abilene and the Cities of Midland and San Angelo (Region F) have formed the West Texas Water Partnership (WTWP) to identify and secure long-range water supplies for the three cities and the surrounding region. Results from ongoing studies will be reflected in future regional water plans.

Water resulting from this partnership would constitute a supply – it should not be listed as a demand on Table 4.3-13. No demand has been identified.

Removing this 10,000 AFY from Table 4.3-13 leaves a raw water demand of 19,021 AFY. Almost all of this is cooling water for hypothetical steam electric power plants in Nolan County.

In fact, no steam electric plants are planned for Nolan County, or in other counties near Abilene. Furthermore, it is extremely unlikely that any new steam electric plans will be planned for this area.

There was in the past a proposal for a coal-fired steam electric plant in Nolan County, the Tenaska Trailblazer plant. Tenaska has formally announced that it will not be built. The reason Tenaska chose Nolan County was an expectation that federal subsidies for carbon capture would make this an economically sound place to locate the plant. When the subsidies failed to develop, plans for the plant were scrapped.

Coal is declining across the entire country. According to the American Association for the Advancement of Science, which publishes the most respected science journal in the country, plans for more than 150 new coal-fired power plants have been canceled since the mid-2000s, existing plants have been closed, and in 2012, just one new coal-fired power plant went online in the United States.

Recent development of wind power in the Abilene area has resulted in a surplus of local electrical generating capacity, necessitating the construction of new power lines to the more heavily populated parts of Texas to the east. If a steam electric power plant were to be built in

the Abilene area, there would be no local demand for the power. Power lines would have to be built for export, making construction of a steam electric plant in this area extremely unlikely.

Texas Conservation Alliance and Friends of the Braozs River are aware that the projected demands for steam electric are generated by the Texas Water Development Board, not by the Brazos G WPG. However, the TWDB guidelines provide for regional planning groups to request adjustments in those projections. The situation in Nolan County is that there is no longer a coal-fired plant proposed nor is there likely to be. TCA and FBR urge you to request that TWDB eliminate the 17,952 AFY for steam electric from Abilene's list of future demands.

Abilene's Supply

To meet Abilene's projected demands, Table 4.3-13 lists three reservoirs with supplies in 2070 totaling 32, 506 AFY.

Abilene's "Constrained" Water Supplies

	2070
Lake O.H. Ivie	4,097
Fort Phantom Hill Reservoir	9,592
Hubbard Creek Reservoir	18,817
Total	**32,506**

This is the so-called "constrained supply", meaning the current water supply is constrained by Abilene's current treatment capacity. This is not a legitimate definition of supply.

A correct accounting of Abilene's current water supply would be as follows:

On Table 3.2-2, the safe yield of Fort Phantom Hill is reported as 16,300 AFY. Abilene has a contract with West Central Texas Municipal Water District for 20,400 AFY. Abilene is entitled to one-sixth of the yield of O.H. Ivie Reservoir. Ivie's yield currently seems to be about 54,000 AFY, making Abilene's portion roughly 9,000 AFY. In addition, Abilene is putting about 7,800 AFY of highly treated wastewater from the Hamby Treatment Plant into Fort Phantom Hill. Totaling these, Abilene's actual current water supply is approximately 53,500 AFY.

Abilene's Current Water Supplies

	2070
Lake O.H. Ivie	9,000
Fort Phantom Hill Reservoir	16,300
Hubbard Creek Reservoir	20,400
Hamby Reuse	7,800
Total	**53,500**

This supply is to be compared with the realistic estimate of future demand of 32,060 AFY.

Even when the hypothetical steam electric power plants are included in the demand, current supplies are adequate to meet those demands.

Obviously there is no need for further water supply for Abilene in the foreseeable future.

Cedar Ridge Reservoir

By inaccurately accounting for supply and demand conditions, the IPP creates an apparent "need" for 29,021 AFY of raw water in 2070, for which the IPP recommends building the proposed Cedar Ridge Reservoir. It is hard to image a more ill-advised course of action.

Not only is there no real need for the water, Cedar Ridge Reservoir would not even be a new source of water supply for the upper Brazos River Basin.

While Cedar Ridge would increase the total storage capacity of the basin, it would also significantly increase the amount of water lost to evaporation. An analysis of the evaporation that would occur from the proposed Cedar Ridge Reservoir, prepared by Trungale Engineering and Science, indicates that the average annual evaporative losses would be roughly 16,000 AFY. Diversion of up to 26,575 AFY plus evaporative losses of 16,000 AFY would reduce the yield of Possum Kingdom Reservoir during the critical drought period by more than the yield of Cedar Ridge Reservoir.

The only advantage of building Cedar Ridge would be to move some of Possum Kingdom's yield upstream closer to possible centers of demand. This could be done more economically by bringing water from Possum Kingdom Reservoir. Water from Possum Kingdom would not have to be treated for the purpose of cooling a power plant. Abilene has two pipelines from Hubbard Creek Reservoir, providing capacity in excess of the municipal supplies Abilene obtains from the reservoir. One could be used to transport water from Possum Kingdom to Abilene. The only cost associated with using water from Possum Kingdom to cool the hypothetical power plants would be transporting the water from Possum Kingdom to the existing pipelines at Hubbard Creek Reservoir. The cost of this pipeline would be a small fraction of the cost of building Cedar Ridge and its associated pipelines.

The citizens of Abilene are being asked to pay $290,868,000 to build Cedar Ridge Reservoir, primarily to meet speculative steam electric demands in Nolan County.

It would be unprecedented and inappropriate for the taxpayers and water ratepayers of Abilene to be called on to build a lake to supply water for steam electric generating purposes. If it were economical for Abilene to develop Cedar Ridge for steam electric, it would be economical for the steam power company to develop it.

Conclusion re Cedar Ridge

It should be clear from the facts above that there is no rational basis for pursuing the proposed Cedar Ridge Reservoir. It should be removed from the Brazos G Water Plan altogether.

A Better Way to Obtain Water from the Clear Fork

Should sufficient demand develop in the Abilene area, a more cost-effective way to use the water that would flow into the proposed Cedar Ridge Reservoir would be to pipe water from the Clear Fork into the Hubbard Creek Reservoir. The proximity of the Clear Fork to Hubbard Creek Reservoir and the existing infrastructure to deliver water to Abilene from Hubbard Creek Reservoir make this a low-cost option.

As the attached cost analysis, prepared by Trungale Engineering and Science, illustrates, the cost of such a project would be roughly $300 per acre-foot, compared to $1,031 per acre foot for Cedar Ridge.

Texas Conservation Alliance
Contact: Janice Bezanson, Executive Director
254-947-5572, bezanson@texas.net

Friends of the Brazos River
Ed Lowe, President
214-358-0612
ed@friendsofthebrazos.org

Hubbard Creek Reservoir Augmentation

Prepared for:

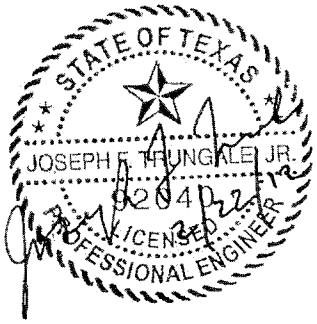
Texas Conservation Alliance

Prepared by:

Trungale Engineering and Science
707 Rio Grande, Suite 200
Austin, Texas 78701

February 2012

Signature Page



Joseph F. Trungale, P.E.

Trungale Engineering and Science

Firm Registration No. F-7692

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1 Hubbard Creek Reservoir Augmentation (utilizing Clear Fork Diversions)

1.1 Description of Option

The proposed project would divert water from Clear Fork to enhance the yield of Hubbard Creek Reservoir located on Hubbard Creek in the Brazos River Basin in Stephens County, about 50 miles Northeast of the City of Abilene as shown in Figure 1 The total reservoir storage capacity of Hubbard Creek at a normal pool elevation is 317,750 acft. Under current conditions, without augmentation from the Clear Fork of the Brazos, the project provides a 2-year safe yield of 27,708 ac-ft/yr.

This Clear Fork augmentation proposal was developed to evaluate this project as an alternative to the proposed Cedar Ridge Reservoir project. Cedar Ridge Reservoir would provide a 1-year safe yield of 23,380 ac-ft/yr. This report assumes a total water supply need of 51,088 ac-ft/yr, the sum of the yields of Hubbard Creek Reservoir and the proposed Cedar Ridge Reservoir as reported in the 2011 regional water plan, and evaluates the availability and cost of providing this yield, on a 1 and 2 year safe yield basis, from Hubbard Creek Reservoir by including supplemental water diverted from the Clear Fork of the Brazos.

1.2 Available Yield

To be consistent with the regional water planning, water supply potentially available from this Hubbard Creek Reservoir Augmentation proposal was estimated using the Brazos G mini-WAM. The model utilized an updated January 1940 through June 2008 hydrologic period of record to account for the recent drought in the Upper Brazos Basin. Estimates of water availability were derived subject to general assumptions for application of hydrologic models as adopted by the Brazos G Regional Water Planning Group and summarized in the regional water plan. Safe yield was computed subject to the reservoir having to pass inflows to meet Consensus Criteria for Environmental Flow Needs instream flow requirements. The streamflow statistics used to determine the Consensus Criteria pass-through requirements for the reservoir are shown in Table 1. (Note: The values provided in Table 1 were estimated based on monthly naturalized flows from the Brazos WAM converted to daily values based on USGS gauge record patterns. In most cases these targets are lower than the consensus criteria values used for the Cedar Ridge evaluation, though that project is upstream of the diversion location for this Hubbard Creek augmentation project.)

In order for the project to provide a sufficient yield to be cost effective, the Brazos River Authority would likely subordinate their water right at Possum Kingdom to the Clear Fork Brazos Diversion to Hubbard Creek.

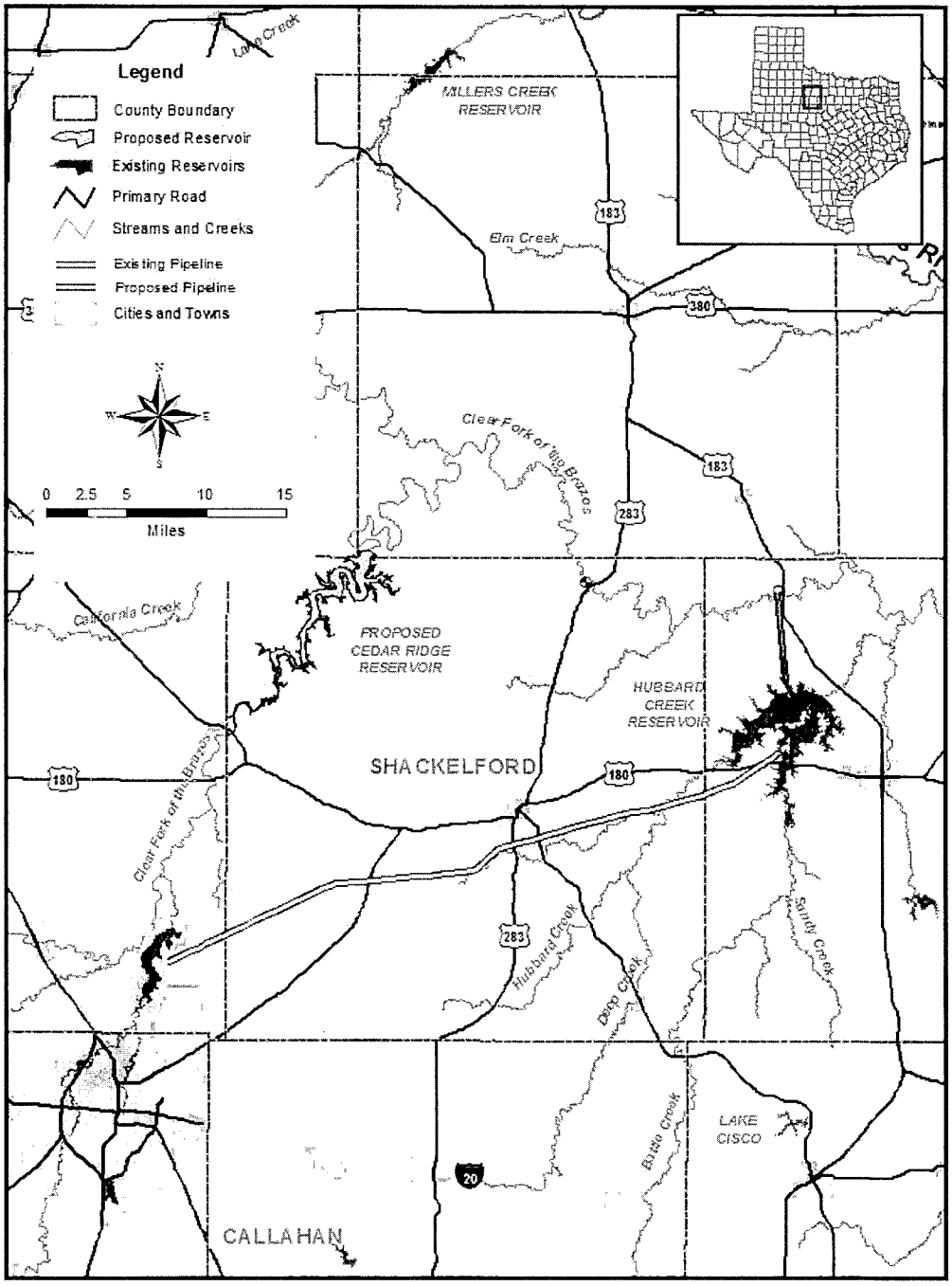

Figure 1 Hubbard Creek Reservoir Augmentation

Table 1 Daily Natural Streamflow Statistics for Clear Fork Brazos

Month	*Median Flows – Zone 1 Pass-Through Requirements (cfs)*	*25th Percentile Flows – Zone 2 Pass-Through Requirements (cfs)*
January	16.6	1.5
February	23.2	6.4
March	26.2	10.5
April	28.9	7.3
May	66.1	9.9
June	92.8	18.8
July	13.2	1.5
August	2.6	1.5
September	12.9	1.5
October	19.4	1.5
November	18.1	1.5
December	15.3	1.5
Zone 3 (7Q2) Pass-Through Requirement (cfs):		1.5

Figure 2 illustrates the simulated Hubbard Creek Reservoir storage levels for the 1940 to 2008 historical period, subject to the 1 and 2 year safe yield of 51,088 acft/yr.

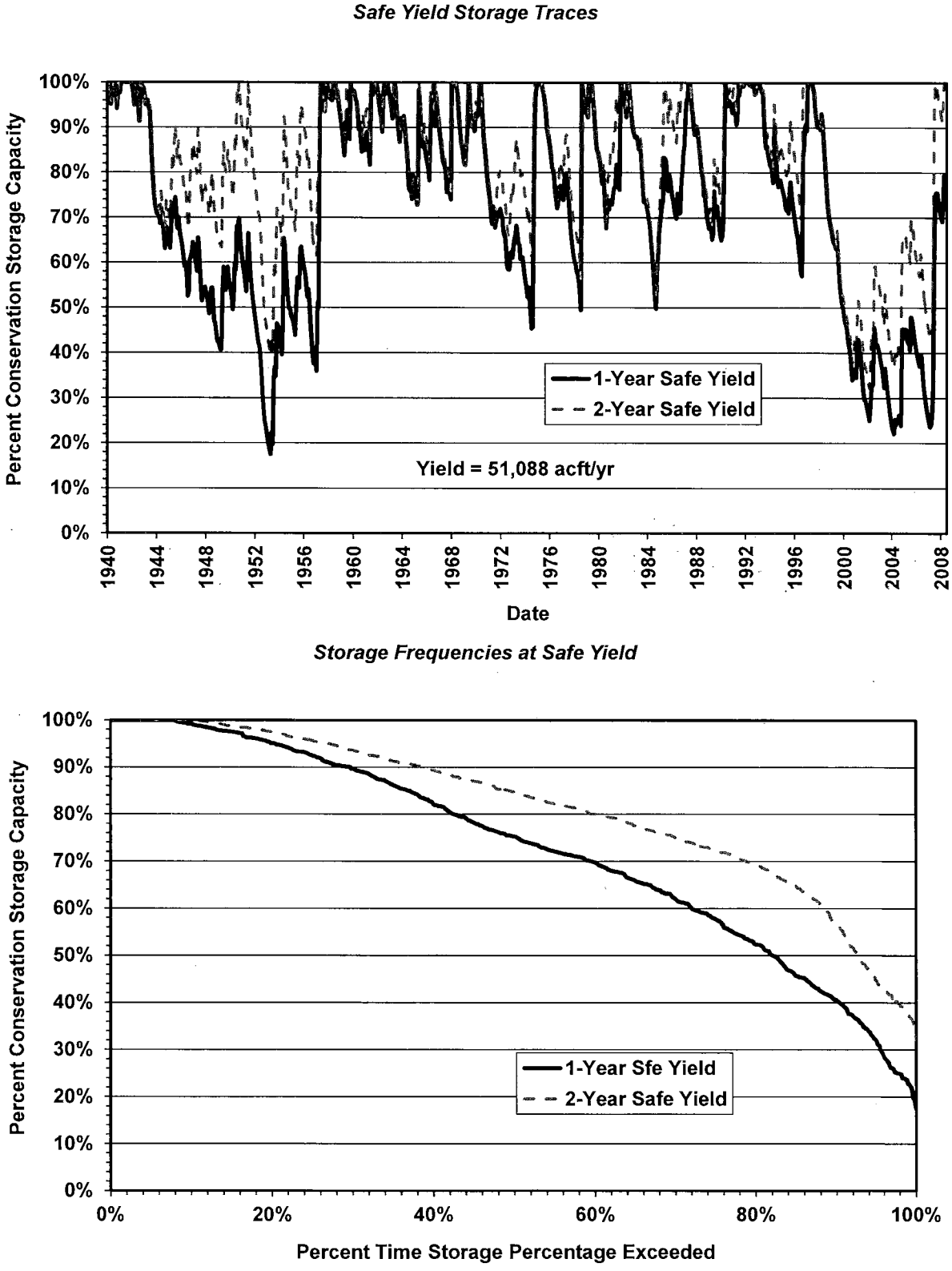

Figure 2 Storage Considerations

Figure 3 illustrates the changes in Clear Fork streamflows caused by impounding the unappropriated waters. Impacts to streamflows are somewhat higher for the 2-year safe yield alternative because more water is needed to maintain reservoir levels.

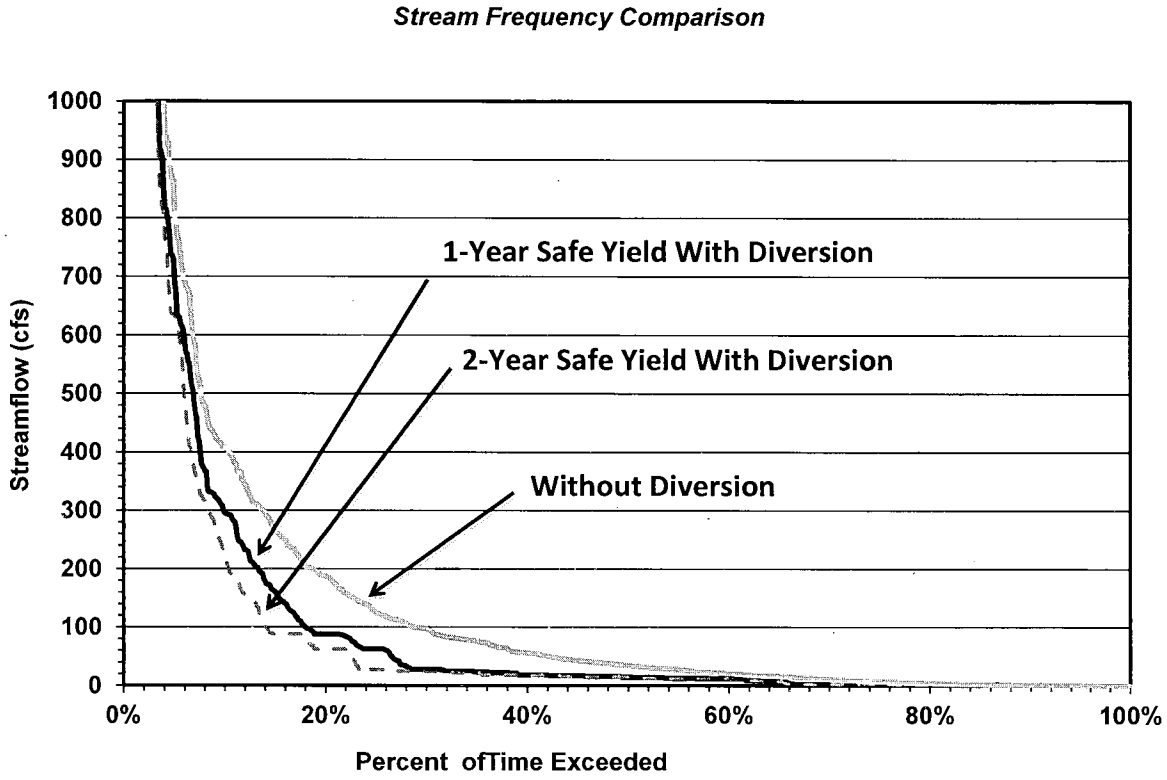

Figure 3 Clear Fork Brazos Streamflow Comparisons

Figure 4 illustrates the annual diversion amount from the Clear Fork required to fill storage under the 1 and 2 year safe yield assumption. Under the 1 – year safe yield alternative a 64-inch diameter pipeline would be used to divert up to 113 cfs or a maximum of approximately 86,000 ac-ft/yr. Under the 2-year safe yield option a 96-inch diameter pipeline would be used to divert up to 252 cfs or a maximum of approximately 192,000 ac-ft/yr. While pipelines and pump stations are sized to meet these maximum volumes, the average annual diversions would be 30,012 and 43,416 ac-ft/yr for the 1 and 2 year safe yield alternatives respectively. Subsequent estimates for annual energy cost, included below are based on these average annual diversions.

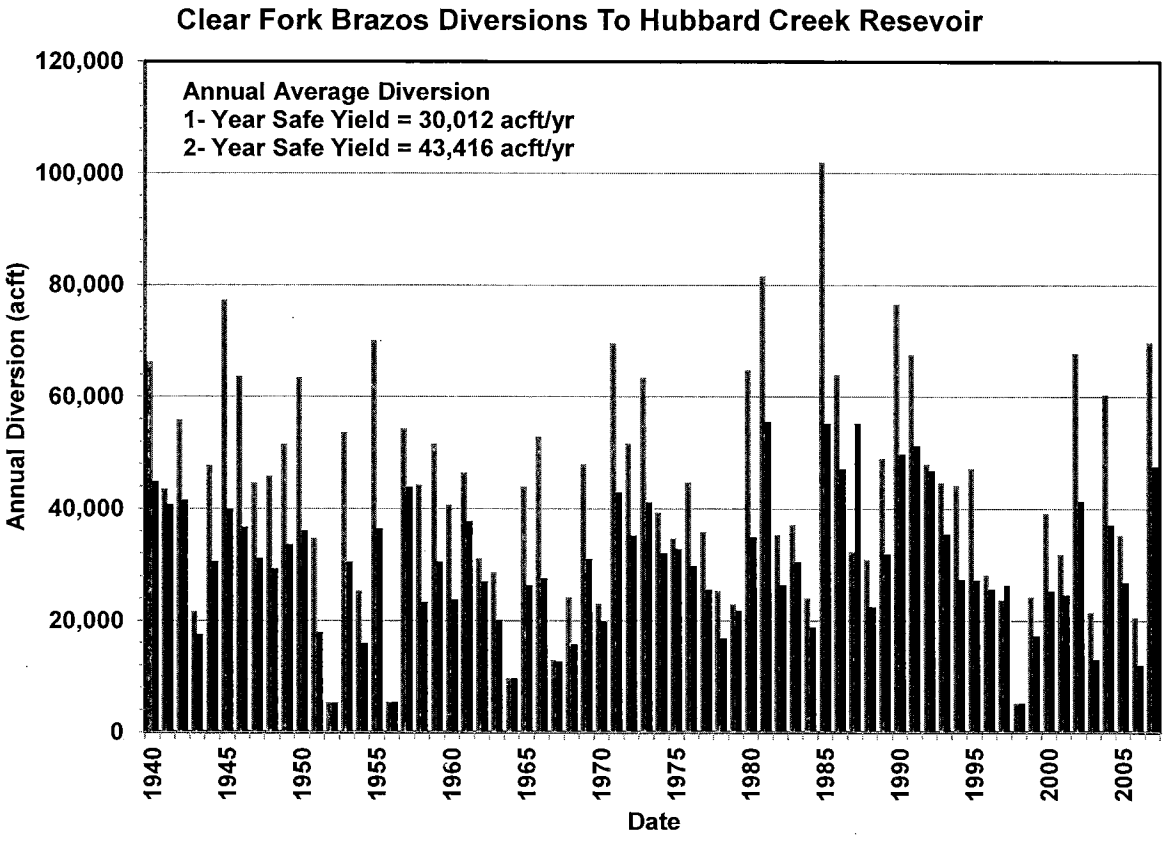

Figure 4 Hubbard Creek Reservoir Safe Yield Diversions from Clear Fork Brazos

1.3 Engineering and Costing

Construction of the Hubbard Creek Reservoir Augmentation would cost approximately $51 million to produce a 1-year safe yield of 51,088 acft/yr or approximately $83 million to produce a 2-year safe yield of 51,088 acft/yr. This includes the construction of pumping facilities, land acquisition, resolution of conflicts, environmental permitting and mitigation, and technical services. The annual project costs are estimated to be $5.0 or 8.2 million for the 1 and 2 – year safe yield respectively; this includes annual debt service and operation and maintenance.

Unit cost of the new supply is based on increase over the baseline yield of Hubbard Creek Reservoir without augmentation from the Clear Fork. According the to 2011 regional water plan the 1-year safe yield for Hubbard Creek Reservoir is 33,305 and the 2-year safe yield is 27,708. Therefore the cost for the additional 1-year safe yield of 17,783 acft/yr translates to an annual unit cost of raw water of $0.87 per 1,000 gallons, or $286/acft. The additional 2-year safe yield of 23,380 acft/yr translates to an annual unit cost of raw water of $1.08 per 1,000 gallons, or

$352/acft. Summaries of the cost estimate are provided in Tables 3 and 4. Costs shown herein are for raw water supply at the reservoir and include no transmission, local distribution, or treatment costs.

Table 2 Cost Estimate Summary for Hubbard Creek Reservoir Augmentation - 1-Year Safe Yield (September 2008 Prices)

Item	*Estimated Costs for Facilities*
Capital Costs	
Intake and Pump Station	$20,241,237
Transmission Pipeline	$13,475,931
Total Capital Cost	$33,717,168
Engineering, Legal Costs and Contingencies	$10,115,150
Environmental & Archaeology Studies and Mitigation	$132,171
Land Acquisition and Surveying	$249,660
Interest During Construction	$7,074,264
Total Project Cost	$51,288,413
Annual Costs	
Debt Service	$3,726,047
Operation and Maintenance	
Pipeline O&M	$134,759
Intake and Pump Stations O&M	$506,031
Pumping Energy Costs	$692,900
Total Annual Cost	$5,059,738
Available Project Yield (acft/yr)	17,783
Annual Cost of Water ($ per acft)	$285
Annual Cost of Water ($ per 1,000 gallons)	$0.87

Table 3 Cost Estimate Summary for Hubbard Creek Reservoir Augmentation - 2-Year Safe Yield (September 2008 Prices)

Item	*Estimated Costs for Facilities*
Capital Costs	
Intake and Pump Station	$31,442,252
Transmission Pipeline	$24,892,492
Total Capital Cost	$56,334,744
Engineering, Legal Costs and Contingencies	$16,900,423
Environmental & Archaeology Studies and Mitigation	$132,171
Land Acquisition and Surveying	$249,660
Interest During Construction	$11,778,720
Total Project Cost	$85,395,718
Annual Costs	
Debt Service	$6,203,906
Operation and Maintenance	
Pipeline O&M	$248,925
Intake and Pump Stations O&M	$786,056
Pumping Energy Costs	$992,201
Total Annual Cost	$8,231,088
Available Project Yield (acft/yr)	23,380
Annual Cost of Water ($ per acft)	$352
Annual Cost of Water ($ per 1,000 gallons)	$1.08

Trey Buzbee

From: ChiantiDel@aol.com
Sent: Wednesday, August 19, 2015 9:06 AM
To: Trey Buzbee
Subject: Brazos Main Stem OCR Sites

Date: 8/19/2015

To: ***Brazos G Members***

Recently I attended a June public meeting concerning Brazos Main Stem OCR Sites -- Identified Sites -- including my home on 10759 FM 2159. My husband and I were totally shocked the plan identified our 30-acre property -- aptly named Wildflower because we preserve the flowers, trees, and native grasses for the wildlife.

In 1984 we purchased the property and began our commitment to transform the land, formerly used for agriculture, to sustain the breeding and migrating of indigenous wild animals. We provide shelter, water, habitat management, and erosion control. We have spent $1000s – that's thousands of dollars – on enhancing and preserving the land as well as establishing additional native plant food, water, and cover for wildlife.

Our wildlife and plant management mission is based on a board range of values that have returned our small island back to its natural state of wildlife, grasses, and outstanding fields of native wildflowers

We have created an environmentally safe habitat for deer, birds, butterflies, and other indigenous wild animals consisting of a natural expanse of prairie grasses and wildflowers and natural food sources including water and trees. Through this process of maintaining and supplementing uninterrupted tracts of land we have seen an increase in all species – including eagles. During the year we maintain shelters for large animals (unspoiled thickets of trees and brush) and small animals (controlled management of cover grasses and man-made shelters) allowing these areas to be completely void of all vestiges of human disturbance. We consistently supplement these shelters with pond water and additional supplies of food (purchased and/or supplied by mowing).

With the introduction of native plants to improve plant diversity and protected shelters to fill once open grazing areas, the native ecosystem has returned a harmonious balance as it was before early settlement. Prior to 1984 cattle grazing and cotton agriculture led to the extinction of plant and small mammals. Now we have a small island for all to enjoy. All this continues under the guideline of the Texas Wildlife Management Use.

It would be a CRIME to destroy this rare and delicate ecosystem. We strongly urge the board to reject the Section 4.8 Main Stem Off-Channel Reservoir option North of Calvert. **Remove the red dot and find another location! Please!!**

Submitted:
Cindy and John Delulio
10794 FM 2159
Calvert, Texas 77837

chiantidel@aol.com
979-364-2254 (home phone)

Amanda and John Sulzbach
2112 Level Oak Pl
The Woodlands, TX 77380

RECEIVED
AUG 17 2015
Water Administration

August 14, 2015

Tommy O. O'Brien
City of Abilene
P.O. Box 60
Abilene, TX 79604-0060

Dear Tommy O. O'Brien,

I am writing you in opposition of the proposed Little River Off-Channel Reservoir Plan that will not only impact the lives of various people in the area, but that will also impact the lives of my family and our legacy. My family owns about 300 acres in Gause, TX, which has been in my family for several generations. If the Little River Off-Channel Reservoir is approved, all but about 20 acres of my heritage would be underwater and the remaining land would no longer be accessible.

For as long as I can remember, our family farm has always been the gathering place for our immediate and extended family. As a child who grew up close to a major city, I always enjoyed visits to our family farm, but I never truly understood the beauty of the land or the roots of the community until I was an adult. In my youth, my impression of my family's land was always indifferent and at times, conflicting. I scoffed at unpaved roads and dodging cow patties in my sandals. As the old saying goes, we get wiser as we grow older. I remember the first time I looked up at the sky as an adult and said here are the stars that I have been missing. I remember the first time I looked out at our land and thought "It really can't get more beautiful than this". I hope to continue to carry on our family traditions for years to come on our family's land.

It wasn't until I attended the Brazos G's Public Hearing on June 23rd that I truly comprehended the full impact of the Reservoir plan. Not only is my family personally affected but so are the livelihoods of many other families within the Milam County community. From agriculture to real estate, the economic repercussions alone could displace many hardworking Texans in Milam County. However, the most tragic impact will be to the historical landmarks in the area.

Pin Oak Cemetery, a resting place for my ancestors and deemed historic by the Texas Historical Commission, will cease to exist. If the Little River Off-Channel Reservoir passes, Confederate soldiers and loved ones will be uprooted from their final resting place.

The loss of the El Camino Real de los Tejas National Historic Trail will diminish our history. The purpose of the El Camino Real de los Tejas was to connect Mexico City to Los Adaes, Tejas, which at the time was the capital of the northeastern frontier of New Spain. This trail would later be followed by the father of Texas, Stephen Fuller Austin. Milam County is located on what is commonly referred to as the 1691 trail which ran from the Detmold area to Apache Pass. The Little River Off-Channel Reservoir will destroy the cultural significance of this trail by spoiling a portion of it that looks much as it did in 1691.

As a concerned citizen, a Milam County land-owner, and a future resident of Milam County; I strongly urge you to oppose the Little River Off-Channel Reservoir.

Sincerely,

Amanda and John Sulzbach

Trey Buzbee

From: BrazosG@brazosgwater.org
Sent: Friday, July 31, 2015 12:27 PM
To: ZZ Brazos G
Subject: Brazos G Question/Comment

Name:
William Oliver

Question/Comment:
I hear that the South Bend Reservoir is back up for consideration. I am in favor of this project. With the projected population growth in Texas, the next drought could be catastrophic. Please let me know what steps I can do as a concerned citizen to help push this project forward. Thanks.

Email:
wlodds@gmail.com

Phone:

Preferred Method of Contact:
Email

Trey Buzbee

From: BrazosG@brazosgwater.org
Sent: Thursday, August 13, 2015 1:19 AM
To: ZZ Brazos G
Subject: Brazos G Question/Comment

Name:
Randy TYSON

Question/Comment:
Is it true that there are three contingency plans for a reservoir in Milam County, and the intent is that one will be built by 2050, regardless?

Email:
pswgear@gmail. com

Phone:

Preferred Method of Contact:
Email

CHISHOLM-TRAIL
SPECIAL UTILITY DISTRICT
P. O. Box 249 • Florence, Texas 76527 • (254) 793-3103
www.ctsud.org

August 10, 2015

Mr. Trey Buzbee
Brazos G Administrator
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

To the Members of Region "G" Water Planning Group:

I want to first thank you for your service to the State of Texas related to the very important issue of Water Planning. Our State continues to see sustained growth and well planned water resources will be critical to continuing that growth trend.

I want to take this opportunity to comment on the most recent draft of the Region "G" Plan related to resources within the plan. Most specifically the Little River Off-Channel Reservoir project listed within the plan.

Chisholm Trail Special Utility District provides water services to customers living in Bell, Burnet and Williamson Counties. I believe that these three counties, as well as the entire Brazos Basin, will be enhanced by the inclusion of this project into the plan. Every reasonable water resource that can be developed, within the Brazos Basin, is a resource that will provide for continued prosperity of Texas. Whether or not the impact is within the Industrial, Agricultural or Urban Land Development, water resource development is paramount to sustainability. While the plan contains many options for water resource development, I want to express my strong opinion that maintaining a diverse set of identified resource options is proper long term regional planning. That is why I support the inclusion of ALL consultant recommended resources within the plan, including the proposed recommended Off-Channel Reservoir projects, without exception.

Sincerely,

Bob Kostka

Bob Kostka, Treasurer
Board of Directors

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SPECIAL UTILITY DISTRICT
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Sincerely,

Gary Goodman, Director
Board of Directors

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Brazos River Authority
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Sincerely,

David Maserang, Director
Board of Directors

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SPECIAL UTILITY DISTRICT
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www.ctsud.org

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Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

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Sincerely,

Michael Sweeney, Secretary
Board of Directors

CHISHOLM-TRAIL
SPECIAL UTILITY DISTRICT
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August 10, 2015

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Brazos G Administrator
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

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Sincerely,

C.E. Pastor

C.E. (Ed) Pastor, Vice President
Board of Directors

CHISHOLM-TRAIL
SPECIAL UTILITY DISTRICT
P. O. Box 249 • Florence, Texas 76527 • (254) 793-3103
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August 10, 2015

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Brazos G Administrator
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

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Sincerely,

Robert Johnson, Jr., Director
Board of Directors

Lone Star Regional Water Authority
P.O. Box 554
Jarrell, Texas 76537

August 21, 2015

To the Members of the Region G Planning Group:

The Board of Directors of the Lone Star Regional Water Authority have instructed me to write to our distinguished Planning Group to thank you for the difficult and appreciated role each of you play in ensuring that the Region is represented to the utmost in the difficult and consuming task of water planning. They realize and appreciate the challenging landscape that you must work in and truly understand the degree of difficulty that it presents.

With that said, they also have a difficult task in ensuring that they are examining all options to determine where they may acquire additional water supplies for the entities they represent. The Region G Planning Group Members are very enlightened to the challenges that the estimated growth numbers present to Williamson County as well as the other areas of Region G over the next 50 years. In view of growth estimates for Williamson County as well as the other threats the area faces on water and water-related issues, the Lone Star Board wish to respectfully request that the Region G Planning Board Members continue to support the Little River off channel Reservoir.

The continued support of the Region G Planning Group will ensure that the proposed Reservoir will be eligible for state and federal funding and maintains that the Reservoir is identified as a future water supply for Williamson County. The Lone Star Board understands that not everyone is in favor of the development of future reservoirs and site issues are painful to all involved. Nevertheless they will be needed in order to meet the future water demands of the state.

I do not believe I need to go into detail on the results planned for Little River Reservoir, however I will point out that it will provide forty-six thousand acre feet for identified Williamson County needs and water needs in Region H as well. The water will support existing Williamson County families and future families of Region G. The Lone Star Regional Water Authority respectfully requests the Region G Planning Groups' continued support for the future Little River Reservoir.

Respectfully,

Dan Dodson

Dan Dodson
General Manager
Lone Star Regional Water Authority

Trey Buzbee

From: David Mann <dl.mann.bmw@gmail.com>
Sent: Friday, August 21, 2015 8:40 PM
To: Trey Buzbee
Cc: Jim Briggs; Mike Sweeney; Bill McGavran; Commissioner Valerie Covey; Karen Herrington
Subject: Support for Little River Off-channel Reservoir Project

Trey,

The Woods community is a development of 400 homes located within the Georgetown ETJ area. For the past four years, our community's ad hoc water committee has been actively involved with water committees of other nearby communities within the ETJ, the Chisholm Trail Special Utility District, and Georgetown Utility Systems to ensure we have safe, reliable water available at reasonable rates.

Our committee has been staying abreast of water issues to keep our citizens informed and moved to action when water issues arise that call for their attention. In that regard, I have chaired the CTSUD Customer Communications Committee for the past two years, and edit the CTSUD Newsletter that is mailed to over 8,000 homes and businesses within Chisholm Trail SUD's service territory.

We have only recently become aware that the future of the Little River Off-channel Reservoir project may be in jeopardy. It is essential to have adequate water to support the continual growth that we continue to experience in the Georgetown ETJ area, as well as that of Williamson County, and it is critically important that this project be available to assist in meeting our future water needs. The purpose of this e-mail to advise the Brazos River Authority that The Woods community is fully supportive of this important project.

David L. Mann, Sr.

Chairman, The Woods Ad Hoc Water Committee

Editor, CTSUD Newsletter

220 Whispering Springs Ln

Georgetown, TX 78633-1996
dl.mann.bmw@gmail.com

August 22, 2015

Mr. Wayne Wilson
Chairperson
Brazos Region G Water Planning Group
c/o Brazos River Authority

Dear Mr. Wilson:

The Williamson County Greater Water Committee represents over 1500 homes located in six large developments in the Georgetown ETJ. Our committee is committed to stay abreast of water issues, and ensure that our citizens are informed and moved to action when water issues arise that call for their attention. To this end, we were established nearly 5 years ago.

We have only recently, however, become aware that the future of the Little River off–channel Reservoir Project may be in jeopardy because of the perception by members of the Region G Water Planning Group that water customers in Williamson County are not, by their relative silence, necessarily supportive of this project.

We apologize for the late response to this issue, but we can assure you that, had we enough time, you would have received large numbers of emails that are supportive of this important project. We share the GUS contention that the project will not only assist in accommodating the burgeoning population of Williamson County, but will assist the entire Brazos Basin. It is imperative that Georgetown Utility Services maintain a diverse set of resource options.

Allow me to close with our thanks to you for your service to the State of Texas related to the very important issue of water planning.

Sincerely,

William L. McGavran III
Chairperson, GWC
105 Portafino Ln.
Georgetown, Texas 78633

Greater Water Committee member developments:
- Cimarron Hills
- Fountainwood
- Shady Oaks
- Woodland Park
- Woodland Park West
- The Woods

Trey Buzbee

From: Donald Scott <donscott4@suddenlink.net>
Sent: Saturday, August 22, 2015 11:09 AM
To: Trey Buzbee
Subject: Support for the Little River Off-channel Reservoir Project

Dear Sir,

I am the committee chair of the Woodland Park and Woodland Park West water committee. We have been active for almost 5 years and have been instrumental, in conjunction with the Greater Water Committee of Wilco, in replacing and refocusing most of the CTSUD Board over the last 3 elections.

This email is sent in support of the subject project. Normally I understand your group does not conduct policy using a straw poll but it appears you have this time. Unfortunately I found out about this late in the process or I could have briefed the development and gotten well over 100 emails sent your way. You would find that large developments in the ETJ, like ours, are already dialed in on water issues.

I have had a little time to study this and it seems the best thing for not just Georgetown but the Brazos Basin.

Thank you so very much for your participation in water planning in our great state.

Don Scott
205 Woodland Park
Georgetown, TX 78633

Trey Buzbee

From: Mike Conner <mh1conner@gmail.com>
Sent: Saturday, August 22, 2015 11:56 AM
To: Trey Buzbee
Cc: 'Melissa Shehane'; 'Wayne'
Subject: Additional Questions and Comments on the LR-OCR project for Brazos G
Attachments: LROCR-CWAq-INTERA_OCR_brief_v2_8-21-15.pdf

Dear Sirs:

I am attaching a report prepared for Gary Westbrook, General Manager, Post Oak Savannah Groundwater Conservation District by the hydrogeologist Steve Young, PG, PE. Ph.D.

This report primarily addresses the issue of contamination of the Carrizo Aquifer via recharge from the LR-OCR. I would like have a response from Brazos G on this issue.

The report also notes that leakage of the reservoir into the groundwater system will increase the recharge rate of the aquifer by 10 times under the footprint of the reservoir. The soils in Milam County support nearly the highest recharge rate of any area for the Carrizo Aquifer. (Scanlon, B. R., Dutton, A. R., and Sophocleous, M., 2003, Groundwater recharge in Texas: The University of Texas at Austin, Bureau of Economic Geology). I would like Brazos G to address the rate of leakage. I would also like to note that the recharge rate given in the Scanlon et al paper was determined before heavy pumping, when the Carrizo aquifer was relatively full. As major pumping begins in Milam County as is currently planned I would think the rate of recharge would increase dramatically, especially under a reservoir where there is constant water under substantial pressure.

I would also like to see how the confirmed yield was calculated. It seems that in drought years between leakage and evaporation the reservoir would lose too much water to support the confirmed yield for a sustained drought such as the drought of record.

Mike Conner
mike@conner.net
512-368-3618
PO Box 8, 12374 FM 2095, Gause, Tx 77857

INTERA
GEOSCIENCE & ENGINEERING SOLUTIONS

INTERA Incorporated
1812 Centre Creek Drive, Suite 300
Austin, Texas, USA 78754
512.425.2000

August 19, 2015

Mr. Gary Westbrook, Manager
Post Oak Savannah Groundwater Conservation District
P.O. Box 92
Milano, Texas 76556

Re: Evaluation of Impacts of Proposed Little River Reservoir on Groundwater

Dear Gary:

INTERA has evaluated the potential impacts from the Little River Off-Channel Off-channel Reservoir on groundwater resources in Milam County.

Our analysis indicates that the after the reservoir is filled, leakage out of the reservoir into the groundwater system will be more than 10 times greater than the recharge rate that occurred across the footprint of the reservoir before the reservoir was built. The increase in recharge rate will caused two changes in the groundwater system. One change is that the water table levels in the aquifer will rise over 100 feet and the other is that groundwater quality will change. The latter impact is a concern because the Brazos River has a much lower water quality than the Carrizo Aquifer.

In the vicinity the proposed reservoir, the Carrizo aquifer produces some of the best water in the state of Texas. The groundwater has low total dissolved concentration (TDS) (~180 ppm) , low hardness (~ 60 ppm), no color or odor problems, has no evidence of anthropogenic contamination, and only needs to be chlorinated before it meets drinking water standards. On the other hand, the Brazos River typically has TDS concentrations above 500 ppm, has hardness concentrations above 180 ppm, may contain man-made chemicals, and needs to be treated extensively before it meets drinking water standards.

To provide perspective on some of the differences in concentration, the EPA secondary drinking water standard for TDS is 500 ppm and the USGS considers water with hardness concentration over 180 ppm as "very hard." The EPA standard means that some people will experience taste and order problems with water containing more than 500 ppm TDS. Very hard water requires that there will be more problems with washing clothes with detergents and with scaling in boilers and industrial equipment.

Another water quality concern is man-made compounds. Over the last two decades, reports have documented the presences of a wide range of organic chemicals in waterways in the United States and Texas at low concentrations Among the man-made compounds of concern are pharmaceutical drugs; hormones, herbicides, pesticides, and organic solvents/chemicals. Several studies in Texas have reported that these type of compounds are becoming an increasing problem. Among the reasons why the introduction of these chemicals into groundwater is a concern is that groundwater undergoes minimal treatment, if any, before it is used by residences.

Because the Little River Reservoir will degrade the quality of the groundwater in the vicinity of its footprint, INTERA recommends that an appropriate study be conducted to address this concern prior to considering the Little River Reservoir as a water supply strategy.

Sincerely,

Steven C Young

Steve Young, PG, PE. Ph.D
Principal Hydrogeologist

Trey Buzbee

From: Judy <jprehar@suddenlink.net>
Sent: Saturday, August 22, 2015 8:38 PM
To: Trey Buzbee
Subject: Little River Off-channel Reservoir Project

August 22, 2015

Mr. Wayne Wilson
Chairperson
Brazos Region G Water Planning Group
c/o Brazos River Authority
4600 Cobbs Drive; Waco, TX 76710
P.O. Box 7555; Waco, TX 76714-7555

Dear Mr. Wilson:

The Williamson County Greater Water Committee represents rate payers in over fifteen hundred homes located in six large developments in the Georgetown ETJ. This committee has been staying abreast of water issues and ensuring that our citizens are informed and moved to action when water issues arise that call for their attention. We have been doing this for nearly five years.

However, only recently have I and the other committee members become aware of the Little River Off-channel Reservoir Project and so had not given **positive** support to this project.

I apologize for this late response but now state my strongly **positive** support for this important project. The residents of Fountainwood share the GUS contention that the project will assist in accommodating the growing population of Williamson County as well as the entire Brazos Basin.

Allow me to close with my thanks to you for your service to the State of Texas related to the very important issue of Water Planning.

Sincerely,

Judith Prehar
Water Committee Member of Fountainwood
203 Liz Lane
Georgetown, TX 78633

Greater Water Committee Member Developments:

Cimarron Hills	Woodland Park
Fountainwood	Woodland Park West
Shady Oaks	The Woods

August 23, 2015

Mr. Wayne Wilson,
Chairperson
Brazos Region G Water Planning Group
c/o Brazos River Authority
4600 Cobbs Drive, Waco, TX 76710
P.O. Box 7555, Waco, TX 76714-7555

Dear Mr. Wilson:

As Secretary of the Shady Oaks Ad Hoc Water Committee, I recently became aware of the Little River off-channel Reservoir project and the fact that there is some opposition to the project. Shady Oaks sub-division is located in the Georgetown ETJ and individually and as a representative of this neighborhood, I would strongly voice my opinion **in support** of this project.

We all know how important short and long-term plans that include diverse options to assure continuous, sustainable water are, and the plan for the Little River off-channel Reservoir is a positive step that would benefit water customers throughout the entire Brazos Basin.

I appreciate the opportunity to voice my opinion and thank you for your service.

Sincerely,

Carlene Boyd,
Shady Oaks Ad Hoc Water Committee
300 Ten Oaks Drive
Georgetown, TX 78633

Trey Buzbee

From: D Rogoff <rogoffdiane@hotmail.com>
Sent: Sunday, August 23, 2015 7:27 PM
To: Trey Buzbee
Subject: Little River Off-channel Reservoir project

Dear Mr. Wilson,

I am writing to let you know of my strong support for the Little River Off-channel Reservoir project. Water is such a precious resource and proactive projects such as this one will ensure adequate supplies for the future.

Thank you for thinking ahead with this project, and I wholeheartedly support these efforts.

Sincerely,
Diane Rogoff
609 Oak Branch Drive
Georgetown, TX 78633

Trey Buzbee

From: Texas Rain <texas.rain@centurylink.net>
Sent: Tuesday, July 07, 2015 12:15 PM
To: wlwilson@tconline.net; peek@thetexasfirm.com; Phil Ford; dale.adams@co.nolan.tx.us; waterman.cb@gmail.com; mtgcd1@centurylink.net; Tim.brown@co.bell.tx.us; Jim.Briggs@georgetown.org; cox@granbury.org; tfloyd@srcaccess.net; zholland@bluebonnetgroundwater.org; kgkinard@abilene.com; mmcguire@rpgcd.org; gnewman@trio-dev.com; Tommy O'Brien; jbp49@icloud.com; spicer@luminant.com; dale.spurgin@co.jones.tx.us; co_judge@burlesoncounty.org; klwagner@ag.tamu.edu; Jkweldon2@gmail.com; gwestbrook@posgcd.org; lann.bookout@twdb.texas.gov; Trey Buzbee
Subject: Note for the members of the Brazos G Water Planning Group.
Attachments: Stop Little River OCR at Waco.doc

I am sending you a copy of a newspaper report about the *Public Hearing on Initially Prepared 2016 Brazos G Regional Water Plan* held on June 23.

The report was published in the June 25 edition of Milam County's *The Cameron Herald.*

Extreme opposition to the inclusion of the Little River Off-Channel Reservoir using the Brazos River as the source water was expressed at the meeting. Over 160 people made the trip from near Gause, Texas, to Waco to express their opposition on June 23.

My report reflects the extreme opposition and provides insight to the landowners' concerns.

Thanking you for taking the time to read the attached report,

Curtis Chubb, Ph.D.
Milam County, Texas

"I'M NOT NERVOUS, I'M MAD."

Submitted by Curtis Chubb

That's what Milam County landowner Mike Kornegay said at Tuesday's public hearing in Waco concerning the proposed Little River Off-Channel Reservoir (OCR) which would flood 4,300 acres of land and be used to supply water to other counties.

It all started in April with a few neighbors calling each other and talking about the Little River OCR northwest of Gause that they had heard mentioned. The next thing you knew, an entire community of people had organized as 'Stop Little River OCR.'

On Tuesday, the 'Stop Little River OCR' movement rolled into Waco to voice their concerns directly to the Brazos G regional water planning group – the group that made the decision to include the Little River OCR in their plans.

And that is when 'Stop Little River OCR' became a force...a rip-snorting, fire-breathing force. If you were one of the 165 people at the public hearing, you understand what I mean.

If you were one of the 13 Brazos G members who looked as if in a trance during the hard-hitting presentations by eighteen people, you understand what I mean.

The presenters came loaded for bear – they had honed their talks and didn't try to hide their deep-felt emotions which came bubbling to the surface. They made everyone in the audience feel what they felt inside. It was riveting.

The presentations showed others how people living northwest of Gause felt about their land...felt about the people who came before...felt about passing their land to their children...and why they thought the reservoir is a really, really bad idea. The emotions were strong.

Almost every speaker started their talk by saying that they represented landowners who would be affected by the planned reservoir. This unselfish attitude is just another sign about how they work together as a community. The following quotes provide a global view of the main points made at the public hearing.

"We intensely oppose the construction of this reservoir at the presently proposed location...Reason and fairness have to be part of the plan."

"Little River OCR is a very expensive, inefficient reservoir. There must be better alternatives. Take it out of the plan and replace it with conservation and reuse."

"Your plans will force our communities to dig up our ancestors...The names of people buried in the Pin Oak Cemetery are not just numbers to be struck through. They represent our heritage and will not be forgotten."

"The reservoir will have unintended consequences on Gause ISD...The present superintendent estimates that over ten years, the loss of tax revenues would run into the millions."

"These properties represent the beauty and romance of Milam County."

"Is constructing the reservoir worth its environmental impact on the wetlands and 60-foot tall Pin Oaks and Sycamores?"

"I work in Hutto and there is no conservation effort in Williamson County...The land will be lost forever if flooded."

"We grow cattle and raise hay on the best pastures in Texas...If forced to sell, it will have an emotional impact and cause financial hardship."

"While the recent floods were an 'act of God' – your plan for the reservoir is an 'act of an intrusive and abusive government takeover of private land."

"You have to consider the Native Americans who lived here...A Rancheria Grande, a settlement of several tribes, existed in this area."

"Many of us have spent our savings to buy land and build a retirement home in 22 Hills, a rural deed-restricted community with twenty homes...Why do you want to build the reservoir here?"

"The reservoir's footprint will include the outcrop area of the Carrizo-Wilcox Aquifer – reservoir water may leak into the underlying aquifer."

"Alternative sites for off-channel reservoirs have not been studied completely."

"The biological and physical resources in the area to be flooded are unique...We have an unusual opportunity to preserve our heritage and continue good stewardship of this land."

"Our land is not replaceable and it is not for sale...This cannot be allowed."

"We have participated with state, county, environmental, and federal agencies to restore wooded areas under a conservation easement for the endangered Houston Toad."

Others outside the immediate 'Stop Little River OCR' community also spoke against the reservoir including Steven Gonzales, Executive Director of El Camino Real de los Tejas National Historic Trail Association.' Gonzales stated that the Association is opposed to the reservoir because it would flood part of the trail and "would forever alter a nationally significant roadway

and destroy an elemental part of our state's history." The trail is one of only 19 national historic trails in the country and is managed by the National Park Service with the Association's assistance.

Milam County Judge David Barkemeyer told the Brazos G members that the Milam County Commissioners Court and the Milano City Council had adopted resolutions opposing the construction of the reservoir. He said "the reservoir doesn't do anything for us in Milam County." Barkemeyer said that the hundreds of people showed up at the public hearing "because you haven't paid any attention to our needs."

Other organizations that have already approved resolutions opposing the reservoir construction are Gause ISD and the 22 Hills Homeowners Association.

In April, the Little River OCR was added to the Brazos G regional water plan as a "recommended water management strategy" when no one expressed dissent. The 'Stop Little River OCR' movement and public hearing has caused one Brazos G member to change his mind about that decision. Near the end of the public hearing, Gary Westbrook stated that he would request the Brazos G water planning group to remove the reservoir from the plan.

Although no timetable for the vote to remove the reservoir from the plan was discussed, Dec. 1 is the deadline for the final 2016 regional water plan to be sent to the state.

MR. Tommy O. O'Brien 7/20/15

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loose the right of ingress and egress. This property is our home and it is how we make our living. Taking our land and cattle out of production will cause overwhelming emotional and financial hardships, create a huge loss of tax revenue for the local school districts and will have a profound impact on local ag businesses for decades to come. This is my home, this is my life and this is where I plan to die.

I find it hard to believe that the same government that refused farmers aid in constructing stock tanks because they deemed it unsuitable to hold water, now want to build a 4400 acre mud hole on land that 42% of the soil is like or more porous than what was deemed unfit.

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

WE NEED YOUR SUPPORT

Thanks for your consideration

Michael W. Kornegay

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

SFWQ Corporation
A Non-Profit Local Government Corporation
c/o County Judge, 101 North Main Street
Jayton, Texas 79528

August 24, 2015

VIA FIRST CLASS MAIL, FAX TO 254-761-3207
AND EMAIL TO trey.buzbee@brazos.org

Brazos G Regional Water Planning Group
ATTN: Trey Buzbee, Project Administrator
c/o Brazos River Authority
P.O. Box 7555
Waco, TX 76714

Subject: Initially Prepared 2016 Brazos G Regional Water Plan dated May, 2015 (IPP Plan)

Dear Brazos G Regional Water Planning Group:

Please accept this letter as a formal written comment on the IPP Plan, as posted on the Region G website. This comment focuses on Subsection 7.3 of the IPP Plan (referred to as "Section 7.3 or "Control of Naturally Occurring Salinity") in Volume II of the IPP.

Background; Salinity Control Project: The SFWQ Corp. is a non-profit local-government corporation formed by three counties: Garza, Kent and Stonewall. We have been working in cooperation with the Brazos River Authority, the University of Texas at El Paso and the United States Economic Development Administration on advance planning and development for the salinity control project described in Subsection 7.3.

Effect on Water Supply: Table 7.3-24 of the IPP ("Evaluation of Salinity Control Project to Enhance Water Supplies") indicates that the salinity control project is not expected to increase water supply. See lines A.1 and E of that Table However, if the effect of the salinity control project on desalination plants is taken into account, we believe there would be an actual increase in water supply.

Technical literature indicates that the TDS levels in the influent of desalination plants strongly affect the water recovery rates of the plants (expressed as a percentage of the influent recovered for use). *See, e.g.*, Xu, et al., "Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use," *ENVIRONMENTAL ENGINEERING SCIENCE*, Vol. 30, Number 8, 2013 (referred-to in these comments as "Concentrate Management"). Here is an excerpt from that paper:

TABLE 1. SUMMARY OF WATER CLASSIFICATION BASED ON SALINITY, TYPICAL WATER RECOVERY, AND POTENTIAL FOR CONCENTRATE VOLUME REDUCTION

Water classification and typical TDS range	*Typical water recovery*	*Concentration factor*	*Range of concentrate quality*	*Potential for water recovery improvement*
Reclaimed water				
TDS 300–1000 mg/L (TOC 5–15 mg/L)	80–85%	5–6.67	TDS 1500–6670 mg/L (TOC 25–90 mg/L)	High
Brackish water[a]				
TDS 500–1000 mg/L	80–90%	5–10	TDS 2500–10,000 mg/L	High
TDS 1000–5000 mg/L	75–85%	4–6.67	TDS 4000–33,000 mg/L	High
TDS 5000–15,000 mg/L	50–80%	2–5	TDS 10,000–75,000 mg/L	Moderate due to high salinity in concentrate
Sea water				
TDS 30,000–40,000 mg/L	40–50%	1.67–2	TDS 60,000–80,000 mg/L	Low due to convenient ocean disposal option

[a]Feed water TDS of current brackish water reverse osmosis plants is typically less than 15,000 mg/L.
TDS, total dissolved solids; TOC, total organic carbon.

Using the water classifications, ranges of TDS and water recovery percentages shown in the table shown above---coupled with the predicted TDS levels and volumes of water shown in Section 7.3 of the IPP---we estimated that the salinity control project would increase desalinated municipal water supplies by 2,475 acre feet per year. See calculation sheet in Appendix A, attached. This estimate may be conservative. Using a different calculation method, Dr. Wesley James estimated an increase of 3,691 acre feet per year. Either way, the increase would be significant, and it would be realized at advantageous locations, i.e., the discharge points from established desalination plants, where there would already be transmission, storage and distribution facilities in place.

We note that the calculated increases would be in addition to any water that may be produced as a byproduct of salt production for the salinty control project. We are studying that possibility. (In July, brine from the project's Salt Creek well was used in a test of water treatment equipment provided by STW Water Resources in Midland. The test produced both salt crystals and fresh water.)

In addition, we believe the salinity control project will produce other benefits that may indirectly increase water supplies, including: (1) decreased corrosion and fouling of water-handling facilities like dam gates and industrial cooling-water facilities, (2) greater usability of un-desalinated water for agriculture, (3) possibly reducing algae "blooms" and fish kills linked to salinity levels, and (4) possibly helping with system operations and mitigation for new reservoirs like Cedar Ridge.

We thank you for the opportunity to comment, and we would welcome the opportunity to meet with you to discuss the project and the upcoming plans. Please feel free to call me (phone 713-253-0919) if we can help in any way.

Sincerely,

Kleber J. Denny, P.E., Project Manager
For SFWQ Corporation

cc:
Mr. Michael McClendon, BRA
Mr. Jeff Sammon, BRA
Mr. Blake Kettler, BRA
Mr. David Dunn, HDR
Directors, SFWQ Corporation
Mr. Dennis Duke
Dr. Wesley James
Mr. Bob Rodgers

Appendix A: Estimated increase in desalinated municipal water supply resulting from salinity control project (at full implementation)

River Segment	A TDS[1] (mg/l)	B Calculated water recovery rate (% est.)	C TDS[2] (mg/l)	D Calculated water recovery rate (% est.)	E Increase in calculated water recovery from project[3] (%, est.)	F Municipal use (acft/yr)[4]	G Increase in desalinated municipal supply[5] (est., acft/yr)
	----------without project----------		----------with project----------				
Seymour to Above Possum Kingdom	6,044	(no proposed desalination)	3,626	(no proposed desalination)	(no proposed desalination)	0	**0**
Lake Possum Kingdom Lake to Above Lake Granbury	1,776	83.06[6]	1,272	84.32[6]	1.26	3,298	**41.6**
Lake Granbury to Above Lake Whitney	1,316	84.21[6]	948	85[6] (or more)	0.79 (or more)	35,644	**281.6**
Lake Whitney to Above Bryan	906	81.88[7]	693	86.14[7]	4.26	18,975	**808.3**
Bryan to Above Richmond	468	81.20[8]	380	84.43[8]	2.23	19,935	**444.6**
Richmond to Gulf of Mexico	346	84.67[8]	317	84.88[8]	0.21	428,136	**899.1**
						TOTAL	**2,475.2**

[1] *Control of Naturally Occurring Salinity*, Table 7.3-11 Model-Predicted TDS Concentration-Duration Curves Without Project, at 50% (median) frequency.
[2] *Control of Naturally Occurring Salinity*, Table 7.3-12 Model-Predicted TDS Concentration-Duration Curves With Project, at 50% (median) frequency.
[3] Column D subtracted from Column B
[4] *Control of Naturally Occurring Salinity*, Table 7.3-23 Cost Estimate Summary for the Total Annual Cost of Desalination Treatment within the Brazos River Basin
[5] Column E multiplied by Column F
[6] Xu, *Concentrate Management*, Table 1 (interpolated within ranges shown for "TDS 1000-5000 mg/l").
[7] Xu, *Concentrate Management*, Table 1 (interpolated within ranges shown for "TDS 500-1000 mg/l").
[8] Xu, *Concentrate Management*, Table 1 (interpolated within ranges shown for "TDS 300-1000 mg/l").

Dunn, David

From: Mike Kornegay <mikewaynek@aol.com>
Sent: Saturday, August 01, 2015 11:03 AM
To: Dunn, David
Subject: Re: What is your mailing address

David,

How and why is the Little River OCR deemed the best site?

First the primary recipient of the water being Williamson County why not build the lake there?

In Milam County why wasn't these considered 8

How is it better than Damming 6 mile creek? That location is a lot closer to the Brazos River.

If distance of a 12' concern, why not Cannon Snap water shed?

Truth of the matter is we don't want a lake anywhere in Milam County.

Mike Kornegay
Sent from my iPhone

On Jul 23, 2015, at 8:57 AM, Dunn, David <David.Dunn@hdrinc.com> wrote:

> Just to be clear and make sure nothing is missed – my mailing address was included in my email signature when I replied to you. Here it is again:
>
> Have a great day.
>
> David
>
> **David D. Dunn,** PE
> *Vice President*
>
> **HDR**
> 4401 West Gate Blvd., Suite 400
> Austin, Texas 78745
> **D** 512.912.5136 **M** 512.791.3671
> david.dunn@hdrinc.com
>
> hdrinc.com/follow-us
>
> ---
>
> **From:** Dunn, David
> **Sent:** Thursday, July 23, 2015 8:27 AM
> **To:** Mike Kornegay
> **Subject:** Re: What is your mailing address
>
> Thanks for the memory refresher. I recognized the name, but couldn't place it.
>
> David

David D. Dunn, PE
Vice President

Sent from my mobile device

HDR
4401 West Gate Blvd., Suite 400
Austin, Texas 78745
D 512.912.5136 **M** 512.791.3671
david.dunn@hdrinc.com

hdrinc.com/follow-us

On Jul 23, 2015, at 5:52 AM, Mike Kornegay <mikewaynek@aol.com> wrote:

> Not your home address ,work, do you recognize Little River OCR
>
> Sent from my iPhone
>
> On Jul 22, 2015, at 7:51 PM, Dunn, David <David.Dunn@hdrinc.com> wrote:
>
> > Sorry. I don't recognize your name.
> >
> > David
> >
> > David D. Dunn, PE
> > Vice President
> > Sent from my mobile device
> >
> > HDR
> > 4401 West Gate Blvd., Suite 400<x-apple-data-detectors://0/0>
> > Austin, Texas 78745<x-apple-data-detectors://0/0>
> > D 512.912.5136<tel:512.912.5136> M 512.791.3671<tel:512.791.3671>
> > david.dunn@hdrinc.com<x-apple-msg-load://D9537220-F21F-4BF6-A8DE-9725CB93B1CB/david.dunn@hdrinc.com>
> > hdrinc.com/follow-us<http://hdrinc.com/follow-us>

On Jul 22, 2015, at 7:26 PM, Mike Kornegay <mikewaynek@aol.com<mailto:mikewaynek@aol.com>> wrote:

Thanks

Sent from my iPad

Mike Kornegay

Amanda and John Sulzbach
2112 Level Oak Pl
The Woodlands, TX 77380

RECEIVED
AUG 17 2015
Water Administration

August 14, 2015

Tommy O. O'Brien
City of Abilene
P.O. Box 60
Abilene, TX 79604-0060

Dear Tommy O. O'Brien,

I am writing you in opposition of the proposed Little River Off-Channel Reservoir Plan that will not only impact the lives of various people in the area, but that will also impact the lives of my family and our legacy. My family owns about 300 acres in Gause, TX, which has been in my family for several generations. If the Little River Off-Channel Reservoir is approved, all but about 20 acres of my heritage would be underwater and the remaining land would no longer be accessible.

For as long as I can remember, our family farm has always been the gathering place for our immediate and extended family. As a child who grew up close to a major city, I always enjoyed visits to our family farm, but I never truly understood the beauty of the land or the roots of the community until I was an adult. In my youth, my impression of my family's land was always indifferent and at times, conflicting. I scoffed at unpaved roads and dodging cow patties in my sandals. As the old saying goes, we get wiser as we grow older. I remember the first time I looked up at the sky as an adult and said here are the stars that I have been missing. I remember the first time I looked out at our land and thought "It really can't get more beautiful than this". I hope to continue to carry on our family traditions for years to come on our family's land.

It wasn't until I attended the Brazos G's Public Hearing on June 23rd that I truly comprehended the full impact of the Reservoir plan. Not only is my family personally affected but so are the livelihoods of many other families within the Milam County community. From agriculture to real estate, the economic repercussions alone could displace many hardworking Texans in Milam County. However, the most tragic impact will be to the historical landmarks in the area.

Pin Oak Cemetery, a resting place for my ancestors and deemed historic by the Texas Historical Commission, will cease to exist. If the Little River Off-Channel Reservoir passes, Confederate soldiers and loved ones will be uprooted from their final resting place.

The loss of the El Camino Real de los Tejas National Historic Trail will diminish our history. The purpose of the El Camino Real de los Tejas was to connect Mexico City to Los Adaes, Tejas, which at the time was the capital of the northeastern frontier of New Spain. This trail would later be followed by the father of Texas, Stephen Fuller Austin. Milam County is located on what is commonly referred to as the 1691 trail which ran from the Detmold area to Apache Pass. The Little River Off-Channel Reservoir will destroy the cultural significance of this trail by spoiling a portion of it that looks much as it did in 1691.

As a concerned citizen, a Milam County land-owner, and a future resident of Milam County; I strongly urge you to oppose the Little River Off-Channel Reservoir.

Sincerely,

Amanda and John Sulzbach

Dunn, David

From: BrazosG@brazosgwater.org
Sent: Wednesday, June 24, 2015 9:33 PM
To: brazosg@brazos.org
Subject: Brazos G Question/Comment

Name:
Sherry Hughes Garner

Question/Comment:
It is wrong to wash away a family cemetery. The Ditto family members who are buried there are part of the Ditto family of Alabama whose ancestor ferried Andrew Jackson across the Tennessee River to go to the Battle of New Orleans. This branch of the Ditto/Hughes/Davidson family has been in Texas for a century. You must at the very least respectfully relocate the bodies.

Email:
sgarner819@charter.net

Phone:
334/202-0417

Preferred Method of Contact:
Email

Dunn, David

From: BrazosG@brazosgwater.org
Sent: Wednesday, June 24, 2015 4:57 PM
To: brazosg@brazos.org
Subject: Brazos G Question/Comment

Name:
Tommi Ivey

Question/Comment:
PLEASE DO NOT put a Reservoir where my great great grandparents are buried! My Great great great great grandparents are also buried at the Pin Oak Cemetery in Milam County. This has been their final resting place for over 150 years. How would you like it if I purposed moving your family. Besides most of them were so poor they had no real coffin so to move them would be costly and desecrate their remains! As a historian and genealogist I beg you to find another area!

Email:
illflyaway21@yahoo.com

Phone:
214-715-5656

Preferred Method of Contact:
EmailPhone

Brazos G Water Planning Group & HDR Inc.

Questions from the Stop Little Off-Channel Reservoir Campaign

- As you know there is over 17 million in budget for land acquisition, permits, surveys, etc, if you do the math and use the entire amount in budget for land acquisition it works out to a little over 4K an acre. What about houses, barns, fencing, roads, man-made ponds? Are landowners just donating those items?

- The legislature requires these plans to address the socio-economic impacts of their decisions. This plan primarily looks at the cost of dam construction, scalping the river and transporting it to the reservoir and its annual operational cost that would be the responsibility of the final user via purchase price. There is very little regarding the collateral impacts placed upon the "giving property owner/area." Please consider and respond to the following aspects:
    - What will be done to prevent loss of the existing bucolic environment (property value)?
    - What will be done to prevent loss of aquatic habitat?
    - What will be done to prevent loss of wildlife habitat?
    - What will be done to prevent loss of natural resources?
    - What will be done to prevent loss of cultural resources (ECHT, Indian artifacts, cemeteries, legacy farms, etc.)? How will cultural resources be addressed?
    - How will threats to natural resources be addressed? (may lower stream flows, declining water quality, inundating the Corizzo-Wilcox recharge zones affecting aquifers, etc.)
    - How will threat to Acquisition and/or mitigation of possible mineral rights (oil & gas, lignite, sand & gravel)
    - How will you address plugging of Existing wells, raising existing wells and relocation storage tanks
    - How will you address acquisition and/or mitigation of groundwater rights
    - How will you address loss of 4300+ acre tax base to Milam County
    - Without stream inflow, there is no "lake front" property value. How will you address possible devaluation of surrounding property?
    - How will you address loss of crop/pasture land value?

- What alternative plans are you considering instead of building a reservoir?
    - Are you considering conversation?
    - Are you considering desalinization? About 71% of the earth is covered with water? Why not use it? Israel is roughly 100% dependent on desalinization and it is working.

- How will you contact the family's loved ones who are buried in the Pin Oak Cemetery? Where will you put the bodies of the loved ones you cannot connect with?

- What will be done with the Historical Marker for the Pin Oak Cemetery? Where will it be placed? Who will work with the Historical Commission?

- Several farms/ranches have been designated by the Texas Department of Agriculture as property that has been a continuous agricultural operation for over 100 years by the Family Land Heritage program, how will you work with these families who will lose more than just a piece of land...they will lose their heritage?

- Why aren't Aquifer Storage and Recovery plans being considered? Research has shown that they are less damaging to the environment and you do not have to take away property from landowners?

THIS IS JUST ONE OF
THE ARTFULL THINGS YOUR
BULLSHIT PLAN WILL DESTROY
THINK BEFORE YOU START
SPEWING BULLSHIT YOU KNOW
NOTHING ABOUT.

Michael Wayne Kozuga

July 28, 2015

HDR

4401 West Gate Blvd. Suite 400

Austin, Texas 78745

Attention. David D. Dunn

I am writing today to voice my concern and objection to the proposed Little River Off Channel Reservoir located in Milam County, Texas. I did not start this fight, but I have the duty and obligation to fight it. This land has been in my family for 128 years and has been recognized by the State of Texas as having been an operational working ranch for over a century.

I am a 68 year old Texan born in Cameron, Texas and worked in the Oil and Gas Industry for over 5 decades. My first 18 years were spent on this land. I moved back to this beloved land 2 years ago with my wife of 44 years with every intention of spending my remaining years carrying on the Legacy of my Father, A. W. "Bulldog" Kornegay.

The Kornegay Family has over 800 acres that will be flooded or the loose the right of ingress and egress. This property is our home and it is how we make our living. Taking our land and cattle out of production will cause overwhelming emotional and financial hardships, create a huge loss of tax revenue for the local school districts and will have a profound impact on local ag businesses for decades to come. This is my home, this is my life and this is where I plan to die.

I find it hard to believe that the same government that refused farmers aid in constructing stock tanks because they deemed it unsuitable to hold water, now want to build a 4400 acre mud hole on land that 42% of the soil is like or more porous than what was deemed unfit.

Governor Abbott spoke of the recent floods, May 2015, being a tragedy through the loss of homes, lives, and property. How is the LROCR any less tragic? There are differences between the two, first those people can rebuild on their property, ours is lost forever. The second difference is one was an act of God and the other is the abusive, intrusive and overreaching action of an out of control tyrannical Government.

I found the cavalier attitude you exhibited at the BRA meeting and your subsequent TV interview, June 23, 2015, both insulting and appalling. You stated that the Little River OCR in Milam County, Texas was the best option to supply water for the countless thousands of Yankees and Californians moving to this state. How did you reach this ambiguous conclusion?

Have you researched the soil? Did you visit the land? Did you meet any of the good Texans who your plan will adversely effect? I didn't think so. Anyone with reasonable intelligence can outline a lake looking at topographical map. Your lack of compassion for real Texans speaks volumes to your character and integrity. Should you ever want to see the land you so are eager to condemn , you have my address , come visit ANY time.

Thanks for your consideration

Michael Wayne Kornegay

Mary Lou Kornegay

Cathy Tooley, Julie Kornegay, Amanda Shulzbach, Jacob Whittington, Benjamin Whittington

Appendix J
Requested Population and Demand Revisions

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HDR | ONE COMPANY *Many Solutions*℠

Memo

To: Texas Water Development Board	
From: Peter Newell and David Dunn, HDR	Project: Brazos G 2016 Regional Water Plan
CC: Brazos G RWPG	
Date: August 9, 2013	Job No: 176233

Demand Revisions

TWDB is requesting that water use in the 2016 regional water plans be based on estimates for gallons per capita daily (gpcd) from the 2011 Water Use Surveys (WUS). HDR estimated 2011 population by straight-line interpolation ("2011 Interpolation") based on the estimated 2010 population (based on 2010 Census data) and 2020 projection , and identified WUGs with differences greater than 10% of the population used on the WUS , which are listed in Table 1. All of the WUGs identified are non-city WUGs which may have used an estimation methodology for their population based on number of connections reported in the WUS. Ten WUGs had a WUS population less than the 2011 Interpolation and 20 WUGs had a WUS population greater than the 2011 Interpolation.

TWDB reviewed the list of WUGs and identified the cause of many of the differences which included:

1. Not all of the WUGs' systems were included in the WUS;
2. Some of the non-city WUGs' customers are inside city limits and those shared populations are accounted for in the Cities' populations;
3. A WUG may have over estimated population on the WUS using a higher persons per connection (ppc) factor (resulting in lower gpcd);
4. The WUS population estimate may have included seasonal population (resulting in lower gpcd); and
5. In some cases, data entry errors were identified.

The TWDB's report is included as an appendix to this memorandum. Table 2 reflects adjustments to gpcd based on TWDB's findings for WUGs listed in Table 1. In addition, four other WUGs were impacted based on TWDB's review and are included in Table 2.

Brazos G agrees with a majority of TWDB's findings and recommendations; however, Brazos G would like to request minor modifications for a few WUGs. These include WUGs which are requesting revisions to TWDB population estimates and projections. Highlighted cells in Table 2 indicate those modifications for TWDB to consider which differ from the TWDB's findings.

Table 1. Region G WUGs with 2011 Water Use Survey population estimates more than 10% different from TWDB population estimates

WUG Entity	Year	Total Net Use (ac-ft)	WUS Population	GPCD	Census 2010	2020 Population Projection	Revised 2011 Population	Estimated Difference	Revised GPCD
WOODROW-OSCEOLA WSC	2011	55	522	94	3,900	4,205	3,931	653%	12
WEST BRAZOS WSC	2011	240	1,551	138	2,574	2,781	2,595	67%	83
DOBBIN-PLANTERSVILLE WSC	2011	441	5,200	76	7,632	10,698	7,939	53%	50
WEST BELL COUNTY WSC	2011	489	2,925	149	4,263	5,112	4,348	49%	100
G & W WSC	2011	429	3,675	104	5,135	7,638	5,385	47%	71
BRANDON-IRENE WSC	2011	296	1,423	186	2,052	2,231	2,070	45%	128
PENDLETON WSC*	2011	257	1,979	116	2,592	2,730	2,606	32%	88
BITTER CREEK WSC	2011	194	1,530	113	1,989	2,065	1,997	30%	87
BELL-MILAM FALLS WSC	2011	831	4,585	162	5,176	5,637	5,222	14%	142
ACTON MUD*	2011	2,197	12,553	156	13,934	15,545	14,095	12%	139
POSSUM KINGDOM WSC	2011	771	6,246	110	1,741	1,888	1,756	-72%	392
MOUNTAIN PEAK SUD	2011	3,406	10,500	290	5,739	7,272	5,892	-44%	516
BRUSHY CREEK MUD*	2011	4,080	21,164	172	12,705	14,432	12,878	-39%	283
BETHESDA WSC	2011	4,816	29,166	147	21,513	24,614	21,823	-25%	197
OAK TRAIL SHORES SUBDIVISION	2011	381	4,038	84	3,049	3,113	3,055	-24%	111
LEE COUNTY WSC	2011	1,091	10,446	93	7,845	9,123	7,973	-24%	122
BLOCKHOUSE MUD	2011	902	8,000	101	6,175	8,326	6,390	-20%	126
439 WSC*	2011	995	6,952	128	5,598	5,875	5,626	-19%	158
JONAH WATER SUD	2011	1,372	10,944	112	8,489	12,985	8,939	-18%	137
CHALK BLUFF WSC	2011	293	3,234	81	2,646	2,646	2,646	-18%	99
WICKSON CREEK SUD*	2011	1,506	13,641	99	11,094	13,120	11,297	-17%	119
HILL COUNTY WSC	2011	422	3,522	107	2,913	3,141	2,936	-17%	128
ROBERTSON COUNTY WSC	2011	254	3,207	71	2,760	3,049	2,789	-13%	81
ARMSTRONG WSC	2011	405	2,454	147	2,143	2,283	2,157	-12%	168
FORT HOOD	2011	7,212	33,711	191	29,589	33,333	29,963	-11%	215
BETHANY WSC	2011	366	3,948	83	3,466	3,909	3,510	-11%	93
WELLBORN SUD*	2011	1,713	9,232	166	8,106	9,309	8,226	-11%	186

STEAMBOAT MOUNTAIN WSC	2011	426	5,040	76	4,485	4,798	4,516	-10%	84
CORYELL CITY WATER SUPPLY DISTRICT	2011	867	5,617	138	4,965	5,713	5,040	-10%	154
SALADO WSC*	2011	1,611	4,931	292	4,391	4,856	4,438	-10%	324

* WUG is listed in population revisions in next section

Table 2. Summary of Revisions to GPCDs for Selected WUGs Based on TWDB's Review

WUG Entity	2011 Total Net Use (ac-ft)	2011 WUS Population	Draft GPCD	Revised GPCD	Pop on Private System	TWDB Comments	HDR Comments
WOODROW-OSCEOLA WSC	396	3,843	94	92		1	
WEST BRAZOS WSC	328	2,125	138	138	470	2	Add supply from exempt wells to system
DOBBIN-PLANTERSVILLE WSC	441	5,200	76	76	2,739	3	Add supply from exempt wells to system
WEST BELL COUNTY WSC	489	2,925	149	149		4	
G & W WSC	482	3,825	104	112	1,560	1,3	Add supply from exempt wells to system
BRANDON-IRENE WSC	296	2,070	186	128		5	use TCEQ estimate for gpcd
PENDLETON WSC	257	1,979	116	116		4	
BITTER CREEK WSC	377	2,630	113	128		1	pop is greater than the 2020 projection
BELL-MILAM FALLS WSC	831	5,222	162	142		5	use TWDB estimate for gpcd
ACTON MUD	2,197	14,095	156	139			new pop estimate is requested by WUG
SALADO WSC	1,611	4,931	292	292		6	new pop estimate is requested by WUG
CORYELL CITY WATER SUPPLY DISTRICT	867	5,040	138	154		7	
STEAMBOAT MOUNTAIN WSC	426	4,516	76	84		7	
WELLBORN SUD	1,713	9,232	166	186		7	
BETHANY WSC	366	3,510	83	93		7	
FORT HOOD	7,212	29,963	191	215		7	
ARMSTRONG WSC	405	2,157	147	168		7	
ROBERTSON COUNTY WSC	254	2,789	71	81		7	
HILL COUNTY WSC	422	2,936	107	128		7	
WICKSON CREEK SUD	1,506	13,641	99	99			
CHALK BLUFF WSC	293	2,646	81	99		7	

JONAH WATER SUD	1,372	8,939	112	137		4	
439 WSC	995	6,669	128	133		8	new pop estimate is requested by WUG
BLOCKHOUSE MUD	902	6,390	101	126		7	
LEE COUNTY WSC	1,091	7,973	93	122		7	
OAK TRAIL SHORES SUBDIVISION	381	3,055	84	111		8	
BETHESDA WSC	4,816	21,823	147	197		7	
BRUSHY CREEK MUD	4,080	15,737	172	231		7	new pop estimate is requested by WUG
MOUNTAIN PEAK SUD	3,406	10,500	290	290			
POSSUM KINGDOM WSC	771	1,756	110	392		8	
VENUS	580	2982	102	174		Demand from Mountain Peak SUD misallocated to WUG	
GOLINDA	60	563	115	95		Demand from West Brazos WSC misallocated to WUG	
ROBINSON	2162	10,680	183	181		Demand from West Brazos WSC misallocated to WUG	
WACO	31245	126,697	221	220		Demand from West Brazos WSC misallocated to WUG	

Black font – no change from WUS
Red font - TWDB recommendation
Red font/shaded - revised from TWDB recommendation by HDR

Notes

1 - Not all of the water systems were accounted for in the WUS. Including other systems revises the gpcd.
2 - TWDB incorrectly assumed a portion of the population and demand reported on WUS was within city limits.
3 - Differences in population estimates indicates some of the population in the CCN is on private systems (i.e., domestic wells).
4 - Some of the WUG population and demand are within city limits.
5 - WUG has a line CCN which makes it difficult to estimate population based on the 2010 Census.
6 - Data entry error and requires adjustments to population projections.
7 - Difference between ppc method and 2010 Census block estimate. TWDB supports using interpolated population for 2011estimate.
8 - WUS estimate may include seasonal population. TWDB supports using interpolated population for 2011 estimate.

Three WUGs reviewed indicate that exempt well use may represent 15% or more of the population within the WUG's CCN. Considering that the regional water plan for each WUG must plan for the entire population assumed, either some of the population could be moved to County-Other or an estimate of supply could be assumed from the local groundwater for the exempt well users.

1. **West Brazos WSC –** TWDB review identified a misallocation of population to three cities to revise the population for the WUG at 2,125. However this is more than 15% less than the 2011 interpolated population estimate. Using the same demand estimate (138 gpcd) as the rest of the WUG, additional supply would be about 73 acft/yr.
2. **Dobbin-Plantersville WSC** – TWDB review indicated that the difference in population between the WUS and the 2010 Census may indicate that a significant portion of the population (2,432) are exempt well users. This population represents 32% of the estimated population for the WUG. Using the same demand estimate (76 gpcd) as the rest of the WUG, additional supply would be about 207acft/yr.
3. **G & W WSC** – TWDB review identified one missing system from the WUS which revises their population up to 3,825 and gpcd to 112. However this is more than 15% less than the 2011 interpolated population estimate. Using the same demand estimate (112 gpcd) as the rest of the WUG, additional supply would be about 196 acft/yr.

TWDB review identified differences in population on six WUGs indicating that the differences were caused by estimation methodology employed by the WUG, TWDB or TCEQ. TWDB did not, however, provide a specific recommendation to reconcile the differences. For each of these WUGs, Brazos G requests the following revisions to gpcd:

1. **Brandon-Irene WSC** – population used on 2011 survey was 1,423 but the 2011 interpolated population estimate based on the 2010 Census and the 2020 projection would give the WUG a population of 2,070 and a revised gpcd from 186 to 128. Brazos G requests to use the revised consumption rate of 128 gpcd.
2. **Bitter Creek WSC -** TWDB review identified a system missing from the WUS which revises their population to 2,630 from 1,530 and their gpcd from 113 to 128. However, this population is greater than the 2020 projection for the WSC which would require a projection revision. Brazos G requests to use the revised consumption rate of 128 gpcd and requesting a population revision for the WSC using population in Fisher and Nolan County-Other (see Population Revision memorandum).
3. **Bell-Milam-Falls WSC -** population used on 2011 survey was 4,585 but the 2011 interpolated population estimate based on the 2010 Census and the 2020 projection would give the WUG a population of 5,222 and a revised gpcd from 162 to 142. TWDB identified challenges with estimating population associated with the line CCN. Brazos G requests using the revised consumption rate of 142 gpcd.
4. **Acton MUD -** TWDB review suggests that no change is necessary. However, discussions with Acton MUD indicate that the 2011 interpolated value of 14,095 is a better approximation

considering the 2010 Census estimate and their requested revisions to projections (see Population Revision memorandum) with an adjusted 2011 gpcd of 139. Brazos requests to use an adjusted 2011 gpcd of 139 gpcd for the MUD.

5. **439 WSC –** TWDB review suggests that the WSC's estimate of population is high and may contain seasonal population. 439 WSC contacted HDR requesting revisions to population projections based on recent engineering studies and TCEQ data revising 2011 population estimate to 6,669. TCEQ's estimate would change the gpcd to 133. Brazos G requests to use an adjusted 2011 gpcd of 133 gpcd for the WSC.
6. **Brushy Creek MUD –** TWDB review suggests that the MUD's estimate of population is high recommending an adjustment of population to 12,878 to match the 2011 interpolated estimate. Brushy Creek MUD contacted HDR requesting revisions to population projections. A new 2011 population estimate based on the projection is 15,737 with an adjusted 2011 gpcd of 231 (see Population Revision memorandum). Brazos G requests to use an adjusted 2011 gpcd of 231 gpcd for the MUD.

Hewitt - Separately from the recent review, TWDB also identified a recommended revision with the gpcd for Hewitt due to an error in the sales calculation for the City of Waco. The purchased intake volume reported on Hewitt's 2011 WUS was a carry-over estimate from the previous year, as they had not returned a 2011 survey. Using the 2011 transaction volume from Waco, the gpcd is adjusted from 152 to 165.

In response to the draft population and demand projections, two WUGs requested revisions to their gpcd.

1. **Graham -** The City is requesting a revision to their 2016 gpcd by using an average from their Water Use Surveys from the years 2011, 2006 and 2009. The resulting gpcd is 266.

Table 3. Summary of Graham historical GPCD

WUG	2011 Plan (gpcd)	2016 Plan (gpcd)	Requested (gpcd)	Water Use Survey Data (gpcd)					
				2011	2010	2009	2008	2007	2006
GRAHAM	159	282	266	282	201	224	302	181	293

2. **Johnson County SUD -** The SUD is requesting a revision to their 2016 gpcd by using an average from their Water Use Surveys from the years 2011, 2006 and 2009. The resulting gpcd is 124.

Table 4. Summary of Johnson County SUD historical GPCD

WUG	2011 Plan (gpcd)	2016 Plan (gpcd)	Requested (gpcd)	Water Use Survey Data (gpcd)					
				2011	2010	2009	2008	2007	2006
JOHNSON COUNTY SUD	171	116	124	116	96	106	104	101	147

3. **Sweetwater -** After review of the proposed gpcd, the City requested to have the gpcd revised to 189. Information submitted on the 2011 WUS did not accurately account for raw wholesale water sold in 2011. The intake volume reported on the 2011 WUS represents treated water but does not take into account the raw water intake volume; however, the raw water sales were subtracted from the intake values, which artificially reduced the treated supply reported for the city. The city submitted historical use of treated supply from 2004 to 2012 (Table 5). The average historical gpcd is 189. Brazos G requests a revision of the WUS for Sweetwater and a revised 2011 gpcd of 189.

Table 5. Summary of Sweetwater's Treated Water Use and GPCD

Year	Total treated Sweetwater Production Systems (gal)	Treated Wholesale Sales (gal)	Sweetwater Use (gal)	Population	GPCD
2004	982,103,500	138,542,000	843,561,500	11,211	206
2005	985,832,500	144,284,000	841,548,500	11,161	207
2006	1,048,274,000	143,127,000	905,147,000	11,110	223
2007	926,972,200	133,331,000	793,641,200	11,059	197
2008	935,786,600	138,573,000	797,213,600	11,008	198
2009	690,873,189	118,521,000	572,352,189	10,957	143
2010	739,757,733	139,133,000	600,624,733	10,906	151
2011	881,509,321	128,431,000	753,078,321	10,943	189
2012	871,620,632	117,788,000	753,832,632	11,034	187

To: David Dunn and Peter Newell, HDR Engineering

From: Kevin Kluge, TWDB Water Use and Projections

Date: June 28, 2013

Re: Reconciliation of populations in projections and GPCD calculation

Following are results of TWDB staff investigations into cases where the 2010 population estimates of non-city water user groups were significantly different from the 2011 population estimates used in the Gallons-Per-Capita-Daily estimates for the same WUGs. Such cases were brought to the attention of TWDB staff by HDR staff on behalf of the Brazos G water planning group.

This memo describes the differences in populations and suggests possible changes that the region can request. At this point in the review process, we ask that any changes suggested below be part of the regional request.

Please contact myself or Yun-Jeong Cho for additional clarification.

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WOODROW-OSCEOLA WSC

2011 WUS Population = 522
2010 Census Population = 3,900
Two W-O WSC systems were not allocated to the WUG: JAWBONE SITE; 2011 use – 139 acft, pop = 1,293 pop and BLANTON SITE; 2011 use – 202 acft, pop = 2,028 pop.

TWDB Action: Staff will add the 2 systems to the allocation, bringing the pop (3,843) much closer to projections and a GPCD of approx. 92.
RWPG Action: If the region would prefer to keep the 94 gpcd, just don't request a change.

WEST BRAZOS WSC

2011 WUS Population = 1,551
2010 Census Population = 2,574
In the current Survey database, 27 percent of the population-served and water use is attributed to the cities of Golinda, Robinson, and Waco. On June 17th, I received an email from Mark Kocian of Aqua Texas, Inc. that the WSC has no customers within the 3 cities.

TWDB Action: Staff will remove the allocation of WSC to Golinda, Robinson and Waco. WUS population-served will increase to 2,125 and the utility will increase correspondingly, so no change in the GPCD. Staff will also correct the water use allocated to the three cities.
RWPG Action: The RWPG has the option of using the draft estimate or requesting a change with the possibly lower GPCD.

GOLINDA

The West Brazos WSC use was erroneously allocated to Golinda. Subtracting the WSC allocated use, 4,286,112 gallons results in a net use of 19,445,367 or 60 acft and a revised GPCD of 95.

TWDB Action: Staff will correct the allocation of the WSC to Golinda.
RWPG Action: RWPG will have the option of revising the draft GPCD in planning or using the corrected GPCD

ROBINSON

The West Brazos WSC use was erroneously allocated to Robinson. Subtracting the WSC allocated use, 7,500,696 gallons results in a net use of 704,337,828 or 2,162 acft and a revised GPCD of 181

TWDB Action: Staff will correct the allocation of the WSC to Golinda.
RWPG Action: RWPG will have the option of revising the draft GPCD in planning or using the corrected GPCD

WACO

The West Brazos WSC use was erroneously allocated to Waco. Subtracting the WSC allocated use, 17,144,448 gallons results in a net use of 10,181,124,584 or 31,245 acft and a revised GPCD of 220.

TWDB Action: Staff will correct the allocation of the WSC to Golinda.
RWPG Action: RWPG will have the option of revising the draft GPCD in planning or using the corrected GPCD

DOBBIN-PLANTERSVILLE WSC

2011 WUS Population = 5,200
2010 Census Population = 7,632
The 2011 WUS for system #1 a pop-served of 3,300 (832 conn, 4 ppc) and for system #2, 1,900 pop-served (956 conn, 2 ppc) for a total of 5,200 (2.9 ppc). The TCEQ PWS info lists a total pop-served of 4,242 (525 conn & 889 conn). The WSC population estimated with the service area boundary (CCN) and census block was 8,573 and subsequently adjusted down to 7,632. *There may be a significant number of people (2,432) within the CCN that are on private wells.

TWDB Action: None at this time
RWPG Action: Depending on the response that the RWPG has received from the WSC, the projected population could be reduced to the survey-reported value and the remainder returned to County-Other.

WEST BELL COUNTY WSC

2011 WUS Population = 2,925
2010 Census Population = 4,263
The 2011 WUS reports 3,900 pop and 1,305 conn (3 ppc). Twenty-five percent of the pop-served and use were allocated to Killeen, resulting in a GPCD population of 2,925. TCEQ PWS info lists a 3,948 pop

and 1,316 conn. The 2010 pop est from GIS work lists estimates a pop of 4,263 (1,053 inside Killeen and 3,210 outside).

TWDB Action: Revise the WBCWSC-Killeen allocation, resulting in no change to 2011 GPCD for the WSC or Killeen.
RWPG Action: None needed.

G & W WSC

2011 WUS Population = 3,675
2010 Census Population = 5,135
The SADDLE CREEK FOREST SUBD system (2011 data = 53 acft, 150 pop, 50 conn) was not allocated to G & W WSC WUG. Staff will allocate the Forest Subd system to the Entity allocation. Additional system will bring the 2011 pop est up to 3,825 and GPCD up to 112. However, this is new pop-served is still significantly different than the draft pop, which incorporated GIS/census data. There may be a significant # of people within the CCN that are on private wells: 1,560?

TWDB Action: Add the Saddle Creek system to the WUG; GPCD increases from 104 to 112.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
434	*569*	*672*	*778*	*872*	*954*

RWPG Action: Can request that the new demand projections be used.

BRANDON-IRENE WSC

2011 WUS Population = 1,423
2010 Census Population = 2,052
The 2011 WUS reports a pop of 1,735 and conn of 694 (2.5 people per connection). The TCEQ PWS info lists 2,055 pop and 685 conn. Since the WSC has a line CCN, this may be a case of differing estimations.

TWDB Action: None at this time
RWPG Action: None unless the WSC responds to the region with a request for change.

PENDLETON WSC

2011 WUS Population = 1,979
2010 Census Population = 2,592
In the GPCD calculations, 24% of the population and usage was allocated to the City of Temple. In preparation of the draft projections, this shared population was not subtracted out.

TWDB Action: None at this time.
RWPG Action: The region could request that the shared pop (approximately 625) be subtracted from the WSC's projected population and put into County-Other.

BITTER CREEK WSC

2011 WUS Population = 1,530
2010 Census Population = 1,989
The Bitter Creek WSC South system (1102831) data was not allocated to the WUG. For 2011, the South system had a net use of 183 and a pop-served of 1,100 (440 conn). Adding such #s to the WUG would increase the WUG 2011 use from 194 acft to 376 acft and the pop-served from 1,530 to 2,630 for a GPCD of 128 (vs 113).

TWDB Action: Add the South system to the WUG's population and usage, GPCD increases from 113 to 128. (The draft Fisher County population remains constant while increase efficiency reduces water use.)

Adjusted Demand Projections (Fisher County, Based on Draft Population Projections and Efficiency Savings)

2020	2030	2040	2050	2060	2070
113	108	104	104	104	104

Adjusted Demand Projections (Nolan County, Based on Draft Population Projections and Efficiency Savings)

2020	2030	2040	2050	2060	2070
161	164	164	171	176	180

RWPG Action: Can request that the new demand projections be used.

BELL-MILAM FALLS WSC

2011 WUS Population = 4,585
2010 Census Population = 5,176
The WSC has a line CCN rather than an area service area, so estimations are difficult and may differ.

TWDB Action: None at this time
RWPG Action: None unless the WSC responds to the region with a request for change.

ACTON MUD

2011 WUS Population = 12,553
2010 Census Population = 13,934
The 2011 WUS pop-served was 16,963 (6,785 conn), with 24% going to DeCordova and 76% going to the Acton MUD WUG (12,553 pop). Census pop is 13,934, pretty close considering how broken up the MUD's service area is.

TWDB Action: None at this time
RWPG Action: None unless the WSC responds to the region with a request for change.

POSSUM KINGDOM WSC

2011 WUS Population = 6,246
2010 Census Population = 1,741
Due to the location of the WSC, many of the connections may be vacation homes and the survey population may include substantial seasonal population. It may be appropriate to use the interpolated 2011 population of 1,756 to calculate the base GPCD of 392 (vs the draft 110).

TWDB Action: Staff will not change the survey data, however staff will support the following adjustment to the planning base GPCD to 392.

Adjusted Demand Projections (Palo Pinto County, Based on Draft Population Projections and Efficiency Savings)

2020	2030	2040	2050	2060	2070
777	826	858	889	915	936

Adjusted Demand Projections (Stephens County, Based on Draft Population Projections and Efficiency Savings)

2020	2030	2040	2050	2060	2070
33	34	34	34	34	35

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

WELLS BRANCH MUD

***NOTE: The Wells Branch MUD is not within Region G. A portion of the district was erroneously placed within Region G, but in fact all off of the district lies within the Region K portion of Williamson County. A separate email will describe how the Williamson County-Other projections should be adjusted**

2011 WUS Population = 7,964
2010 Census Population = 11,190
The population estimation for the MUD has proven to be a challenge due to the number of multi-family units.

- **2011 WUS (18,000)** - The population-served reported in the 2011 WUS was 18,000. Margaret Wingrove of Crossroads Utility Services calculated the estimate by multiplying the number of single-family residences served (2,764) by 3.5 for a 9,674 population and the number of apartment units (4,015) by 2 for a 8,030 population. The total was 17,704, rounded up to 18,000.
- **2011 GPCD Detail Report (7,964)** In the District's 2011 survey, a population-served was reported as 18,000 with total connections equal to 2,896. Because the calculated people-per-connection is higher than 4.71, then the coding calculated the pop-served as 2,896 connections time 2.75 (2010 state average people-per-household), or 7,964.
- **2010 Census Population (11,190)** – The 2010 Census estimate for the MUD (not the CDP) was calculated based upon GIS analysis of 2010 Census blocks and the district boundary, including blocks whose centroid is within the service area.

Based upon the account/unit information received from Ms. Wingrove and Donna Howe of Wells Branch MUD, staff suggests that if the district and region desires to change to the projections of the district that one of two new 2010 population estimates be considered:

1. **Revised GIS Analysis (13,364):** The GIS analysis was done again but included a number of blocks that were not included in the initial estimate because the centroid of the census block was not within the district boundary. Upon further analysis, it was determine that the block's population is quite likely within the district regardless of the geographical centroid. Or,
2. **Connection Estimate (14,122):** Based upon the number of single family (2,764) and multi-family (4,015) connections, the average household size for the overlapping Census tracts (2.52 for owner-occupied and 1.95 for renter-occupied), and the average vacancy rates in the tracts (1.03% for owner-occupied and 7.68% for renter-occupied), the population is estimated as 6,894 for the apartments and 14,122 total.

Any population/demand revision should include any feedback received from the district, particularly regarding build-out.

The base GPCD (189) will be altered by the decision on any population revisions. For instance, if the 2010 population estimate is increased to 13,364, the base GPCD will decrease to approximately 113. Staff are happy to discuss further.

MOUNTAIN PEAK SUD

2011 WUS Population = 10,500
2010 Census Population = 5,739
The 2011 GPCD calculation fails to account for the SUD's customers within the cities of Midlothian (46% of connections), Maypearl (3 % of connections), and Venus (7% of connections). This was confirmed by Randel Kirk, General Manager of the district. (June 28, 2013).

By correcting these allocations, the GPCD for Mountain Peak SUD will not change. The 2010 population estimate for the district based upon service-area boundaries and 2010 Census blocks (5,739) include no shared population, so this 2010 estimate is larger than the non-shared percentage of the 2011 surveyed reported population-served (10,500 * 44% = 4,620). Staff acknowledges that differing methodologies result in different population estimates and suggests retaining the draft projections for the SUD unless the region suggests additional changes.

When the allocations are corrected to the three cities, more water use will be attributed to them and could affect the GPCD.

MIDLOTHIAN

Water use from Mountain Peak SUD connections inside Midlothian were not attributed to the WUGs water use. When the 46% of the SUD's water use is attributed to Midlothian, the base GPCD increases to 214 from 138.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
5,354	6,766	8,440	10,417	12,763	15,489

MAYPEARL

Water use from Mountain Peak SUD connections inside Maypearl were not attributed to the WUGs water use. When the 3% of the SUD's water use is attributed to Maypearl, the base GPCD increases to 198 from 102.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
238	281	306	304	304	304

VENUS

Water use from Mountain Peak SUD connections inside Venus were not attributed to the WUGs water use. When the 7% of the SUD's water use is attributed to Venus, the base GPCD increases to 174 from 102.

Adjusted Demand Projections (Johnson County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
624	710	801	904	1,016	1,137

Adjusted Demand Projections (Ellis County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
16	20	25	30	37	45

BRUSHY CREEK MUD

2011 WUS Population = 21,164
2010 Census Estimate = 12,705
TCEQ PWS Population = 14,871
The 2011 WUS population appears to be over estimates (21,164 population, 5160 single family connections, 1,148 multi-family units, 3.4 people per connection).

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 12,878 to calculate the base GPCD of 283 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
4,433	4,769	5,210	5,703	6,278	6,877

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

BETHESDA WSC

2011 WUS Population = 29,166
2010 Census Estimate = 21,513

The 2011 WUS population, estimated at 3 people per household may be an over-estimation of the actual population within the area compared to the 2010 Census estimate and the necessity to adjust population within the County totals.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 24,614 to calculate the base GPCD of 197 and the adjusted demand projections below.

Adjusted Demand Projections (Johnson County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
3,258	3,482	3,586	3,605	3,537	3,372

Adjusted Demand Projections (Tarrant County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
1,902	1,981	1,990	1,936	1,835	1,685

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

OAK TRAILS SHORES SUBDIVISION

2011 WUS Population = 4,038
2010 Census Estimate = 3,113
Located along Lake Granbury, the subdivision may consist of vacation homes that are not continually occupied, thus the WUS population-served might be over-estimated.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 3,055 to calculate the base GPCD of 111 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
357	351	345	344	345	348

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

LEE COUNTY WSC

2011 WUS Population = 10,446
2010 Census Estimate = 7,845
Based upon GIS analysis, the population-served reported in the 2011 WUS and calculated by multiplying the number of connections by 3 may be an over estimation.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 7,973 to calculate the base GPCD of 122 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
908	991	1,035	1,048	1,060	1,067

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

BLOCK HOUSE MUD

2011 WUS Population = 8,000
2010 Census Estimate = 6,175
Based upon the number of connections (2,204) the WUS population-served is an over estimation.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 6,390 to calculate the base GPCD of 126 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
1,097	1,280	1,518	1,780	2,082	2,397

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

439 WSC

2011 WUS Population = 6,952
2010 Census Estimate = 5,598
The 2011 WUS reported a population-served of 7,640 and total metered connections of 1,984, resulting in a people-per-connection of 3.85. Considering that the WSC is located adjacent to Lake Belton and may contain vacation homes, this person-per-connection may be high.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 5,626 to calculate the base GPCD of 158 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
984	1,006	1,036	1,074	1,118	1,163

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

JONAH WATER SUD

2011 WUS Population = 10,944
2010 Census Estimate = 8,489
The total population-served reported in the 2011 WUS was 13,918. Due to a number of shared-population situations with surrounding cites, it was estimated that 64.46% of the SUD's use and

population should be attributed to the Jonah Water SUD WUG. The attributed population should be 8,972 rather than 10,944.

TWDB Action: Staff will not change the 2011 survey data, however staff will investigate the allocation issue and support the adjustment of using a 2011 interpolated population estimate of 8,939 to calculate the base GPCD of 137 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
1,831	2,240	2,768	3,350	4,023	4,722

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

CHALK BLUFF WSC

2011 WUS Population = 3,234
2010 Census Estimate = 2,646
The 2011 WUS reported total connections of 1,078 and a population-served of 3,234 (3 people per connection). The 2010 average people-per-household value was 2.49 and the WSC population estimate based upon the 2010 Census GIS block was 2,646, so the population based on 3 people per connection appears to be high.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 2,646 to calculate the base GPCD of 99 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
268	258	249	244	243	243

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

WICKSON CREEK SUD

2011 WUS Population = 13,641
2010 Census Estimate = 11,094
Two water systems are part of the WUG: the Brazos County system (PWS 0210005, 93% allocated to WUG) and the Grimes County system (PWS 0930003, 100% allocated to WUG). The 2010 population estimate mistakenly make with the understanding that one system was reporting the population-served for both. The GIS analysis with 2010 Census blocks estimated a population of 14,844.

TWDB Action: Staff recommends that the region request an increase in the 2010 population estimate to 13,641 (2011 WUS population estimate) or 14,844 (GIS Census block analysis) and increase the projected population by the same amount. Staff will not recommend revising the GPCD.

RWPG Action: May request a change in the 2010 and projected population for the SUD.

HILL COUNTY WSC

2011 WUS Population = 3,522
2010 Census Estimate = 2,913
The 2011 WUS population is based upon a 3 person-per-connection figure and may over-estimate the population served. The 2010 average household size for Hill County is 2.58 people. Using 2.58 as a person-per-connection figure produces a 2011 population served of 2,977.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 2,936 to calculate the base GPCD of 128 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
425	445	458	473	486	497

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

ROBERTSON COUNTY WSC

2011 WUS Population = 3,207
2010 Census Estimate = 2,760
The difference is the result of a 3-person-per-connection method of calculation and the GIS 2010 Census block estimate.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 2,789 to calculate the base GPCD of 81 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
246	262	285	307	328	349

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

ARMSTRONG WSC

2011 WUS Population = 2,454
2010 Census Estimate = 2,143
The difference is the result of a 3-person-per-connection method of calculation and the GIS 2010 Census block estimate.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 2,283 to calculate the base GPCD of 168 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
406	418	434	454	477	502

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

FORT HOOD

2011 WUS Population = 33,711
2010 Census Estimate = 29,589
The difference is the result of a 3-person-per-connection method of calculation and the 2010 Census population.

TWDB Action: Staff will not change the 2011 data from the multiple systems that provide water to Fort Hood, however staff will support the adjustment of using a 2011 interpolated population estimate of 29,963 to calculate the base GPCD of 215 and the adjusted demand projections below.

Adjusted Demand Projections (Bell County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
3,954	3,870	3,816	3,810	3,805	3,804

Adjusted Demand Projections (Coryell County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
3,673	3,679	3,627	3,622	3,617	3,617

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

BETHANY WSC

2011 WUS Population = 3,948
2010 Census Estimate = 3,466
The difference is the result of a 3-person-per-connection method of calculation and the GIS 2010 Census block estimate.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 3,510 to calculate the base GPCD of 93 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
367	396	430	472	524	581

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

WELLBORN SUD

2011 WUS Population = 9,232
2010 Census Estimate = 8,106
The difference may be the result of a 3-person-per-connection method of calculation and the GIS 2010 Census block estimate. In addition, Wellborn SUD had taken over the Brushy WSC just to the northwest of the district at some point in the last 2 year; staff is unsure how this might affect projections. Hopefully, they district may have responded to the Region G survey.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 8,226 to calculate the base GPCD of 186 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
1,849	2,077	2,322	2,637	2,984	3,370

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

STEAMBOAT MOUNTAIN WSC

2011 WUS Population = 5,040
2010 Census Estimate = 4,485
The difference may be the result of a 3-person-per-connection method of calculation and the GIS 2010 Census block estimate.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 4,516 to calculate the base GPCD of 84 and the adjusted demand projections below.

Adjusted Demand Projections (Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
410	413	417	422	429	435

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

CORYELL CITY WSD

2011 WUS Population = 5,617
2010 Census Estimate = 4,965
The difference may be the result of a 3-person-per-connection method of calculation and the GIS 2010 Census block estimate, particularly difficult due to the district holding a facility (line) CCN.

TWDB Action: Staff will not change the 2011 survey data, however staff will support the adjustment of using a 2011 interpolated population estimate of 5,040 to calculate the base GPCD of 154 and the adjusted demand projections below.

Adjusted Demand Projections (Coryell County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
809	899	1,005	1,102	1,208	1,316

Adjusted Demand Projections (Coryell County, Based on Draft Population Projections and Efficiency Savings)

2020	*2030*	*2040*	*2050*	*2060*	*2070*
125	146	166	186	207	227

RWPG Action: May request a change in the demand projections based on adjusted 2011 GPCD

SALADO WSC

2011 WUS Population = 4,931
2010 Census Estimate = 4,391
The 2010 population estimate was intended to be set at the 2011 population-served value (4,931), however it appears as though the 2nd and 3rd digits were transposed.

TWDB Action: Staff will support the change of the 2010 population estimate to 4,931 and the resulting increase in projections if requested.

RWPG Action: May request a change in the base and projected populations.

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Memo

To:	Texas Water Development Board		
From:	Peter Newell and David Dunn, HDR	Project:	Brazos G 2016 Regional Water Plan
CC:	Brazos G Regional Water Planning Group		
Date:	August 9, 2013	Job No:	176233

Population Revisions

After review of TWDB's draft population projections for the 2016 Brazos G Regional Water Plan, a number of WUGs have requested revisions to their populations. Revisions are grouped by county and include coordinated revisions for WUGs in other regions. Many of these revisions resulted in changes to County-Other populations, which are summarized in Section 6.

A second Demand Revisions Memorandum will accompany this document detailing requested revisions to per capita water use projections.

1. Bell County

1.1 439 WSC

439 WSC responded to the draft population requesting revisions based on TCEQ data which estimated population at 6,669 in 2011 (Exhibit 1). 439 WSC also referenced an engineering report that projected population based on 3 people per connection (ppc). Those numbers are provided in Table 1 below.

Brazos G requests that population estimates for 439 WSC be revised in accordance with TCEQ data and projections based on the WUG's estimates. Brazos G would prefer to move population from Bell County-Other to 439 WSC for the planning period. Revisions to Bell County-Other are addressed in Section 6.

Table 1. Summary of Population Revisions for 439 WSC

439 WSC	2020	2030	2040	2050	2060	2070
TWDB Population	5,875	6,139	6,426	6,721	7,010	7,295
Revised Population	7,584	8,435	9,318	10,292	11,369	12,559
Difference (from Bell C-O)	1,709	2,296	2,892	3,571	4,359	5,264

The TWDB should also revise the base gpcd for 2011 based on the population estimate provided by TCEQ. 439 WSC is also listed in the Demand Revisions memorandum.

1.2 Pendleton WSC

24% of the population and usage for Pendleton WSC is estimated to be served inside City of Temple limits. However, this shared population was not subtracted out of TWDB's draft population projections for the WUG and therefore the population is counted both in Pendleton WSC and Temple.

A revised projection was developed considering by reducing the population by 625 in 2010 and maintaining the TWDB growth rate for projecting future population. Brazos G requests that population estimates for Pendleton WSC in Bell County be revised in accordance with Table 2. Difference in population would be moved into Bell County Other. Pendleton WSC is also listed in the Demand Revisions memorandum.

Table 2. Summary of Requested Revisions for Pendleton WSC

Pendleton WSC	2020	2030	2040	2050	2060	2070
TWDB projection	2,730	2,861	3,004	3,151	3,295	3,437
Revised Population	2,075	2,174	2,283	2,395	2,504	2,612
Difference (to Bell C-O)	(655)	(687)	(721)	(756)	(791)	(825)

1.3 Salado WSC

The 2010 population estimate was intended to be set at the 2011 population-served value (4,931); however, TWDB recently confirmed the estimate was incorrectly entered into the database by transposing the 2nd and 3rd digits (4,391).

Brazos G requests that population estimates for Salado WSC in Bell County be increased using population from Bell County Other in accordance with Table 3. Salado WSC is also listed in the Demand Revisions memorandum.

Table 3. Summary of Requested Revisions for Salado WSC

Salado WSC	2020	2030	2040	2050	2060	2070
TWDB projection	4,856	5,298	5,780	6,275	6,761	7,239
Revised Population	5,453	5,950	6,491	7,047	7,592	8,129
Difference (from Bell C-O)	597	652	711	772	831	890

2. Burleson County

Burleson County is requesting an increase in the county total population in the early decades of the plan. Correspondence with the County indicates that there has been an increase in requests for construction permits and the County expects to be impacted by spill-over growth from Bryan and College Station in Brazos County by 2020.

Brazos G requests population estimates for Caldwell, Deanville WSC and Burleson County-Other be revised in accordance with Table 4. The increases to the county total will need to come from another county in the Region or from another region.

Table 4. Summary of Requested Revisions for Burleson County

WUG Name	2020	2030	2040	2050	2060	2070
Caldwell						
TWDB projection	4,427	4,763	4,976	5,190	5,359	5,498
Revised Population	4,896	5,060	5,275	5,312	5,412	5,498
Difference	469	297	299	122	53	0
Burleson County-Other						
TWDB projection	6,279	6,758	7,059	7,363	7,604	7,799
Revised Population	6,748	7,055	7,358	7,485	7,657	7,799
Difference	469	297	299	122	53	0
Deanville WSC						
TWDB projection	3,129	3,366	3,517	3,668	3,787	3,885
Revised Population	3,598	3,663	3,816	3,790	3,840	3,885
Difference	469	297	299	122	53	0
Milano WSC	1,867	2,008	2,098	2,188	2,259	2,318
Snook	552	594	620	647	668	685
Somerville	1,485	1,597	1,669	1,741	1,797	1,844
Southwest Milam WSC	800	860	899	938	968	993
Revised County Total	**19,946**	**20,838**	**21,735**	**22,100**	**22,600**	**23,022**
TWDB Projection (Burleson County Total)	**18,539**	**19,946**	**20,838**	**21,735**	**22,442**	**23,022**
Difference	**1,407**	**892**	**897**	**365**	**158**	**0**

3. Brazos County

Five of the six WUGs in Brazos County are requesting revisions to their population projections. HDR facilitated a meeting to develop a coordinated response to populations so as to meet the TWDB's estimate for Brazos County. TWDB population projection methodology prioritizes population within city limits which may not necessarily indicate water service, as is the case in Brazos County. College Station city limits include a much larger population that what will ultimately be served by the City's water utility. Therefore the populations included for College Station on the following tables will include include some customers of other WUGs. Revisions are included for City of Bryan, City of College Station and Brazos County-Other.

Table 5. Summary of Requested Changes for Brazos County WUGs

TWDB Projections	2020	2030	2040	2050	2060	2070
City of Bryan	84,350	93,544	103,066	114,716	127,196	140,956
City of College Station	104,052	126,999	150,765	179,841	210,991	245,335
Texas A&M University	11,851	12,000	12,000	12,000	12,000	12,000
Wellborn SUD	9,309	10,667	12,073	13,793	15,636	17,668
Wickson Creek SUD	9,752	11,724	13,767	16,266	18,943	21,895
Brazos County-Other	8,340	9,731	11,326	13,278	15,369	17,675
Total Brazos County	227,654	264,665	302,997	349,894	400,135	455,529
Requested Revisions	**2020**	**2030**	**2040**	**2050**	**2060**	**2070**
City of Bryan	88,434	93,544	119,410	138,980	159,588	181,797
City of College Station	102,140	132,690	141,952	164,492	188,719	215,545
Texas A&M University	11,851	12,000	12,000	12,000	12,000	12,000
Wellborn SUD	9,309	10,667	12,073	13,793	15,636	17,668
Wickson Creek SUD	9,752	11,724	13,767	16,266	18,943	21,895
Brazos County-Other	6,168	4,040	3,795	4,363	5,249	6,624
Sum of requested changes for Brazos County	227,654	264,665	302,997	349,894	400,135	455,529

3.1 Bryan

Bryan responded with population revisions to reflect growth within the CCN area (47,000 acres) beyond the city limits. Projections were based on historical growth patterns (Exhibit 2). The City will serve a larger population of which some will reside within College Station city limits in the future. Brazos G requests that population estimates for City of Bryan be increased using population from Brazos County-Other and City of College Station in accordance with Table 6.

Table 6. Summary of Requested Changes for City of Bryan

	2020	2030	2040	2050	2060	2070
City of Bryan						
TWDB Population	84,350	93,544	103,066	114,716	127,196	140,956
Requested revision	88,434	93,544	119,410	138,980	159,588	181,797
Difference (from Brazos C-O)	2,172	0	7,531	8,915	10,120	11,051
Difference (from College Station)	1,912	0	8,813	15,349	22,272	29,790

3.2 College Station

College Station responded to the draft population projections by adjusting projections based on the City's comprehensive plan through 2030. Population in later decades was extrapolated using the growth rate projected by TWDB. Discussions with water utility directors indicate that the city's CCN area will not be expanded and is expected to be built out by 2040 at about 119,000 (referencing the City's master plan). As growth continues around the City's CCN, it will be served by others, including City of Bryan, Wickson Creek SUD and Wellborn SUD. Brazos G requests that population estimates for City of College Station be revised using population from Brazos County-Other and transferring some population to City of Bryan in accordance with Table 7.

Table 7. Summary of Requested Changes for City of College Station

City of College Station	2020	2030	2040	2050	2060	2070
TWDB Population	104,052	126,999	150,765	179,841	210,991	245,335
Requested revision	102,140	132,690	141,952	164,492	188,719	215,545
Difference (to Bryan)	(1,912)	0	(8,813)	(15,349)	(22,272)	(29,790)
Difference (from Brazos C-O)	0	5,691	0	0	0	0

Adjustments to Brazos County-Other are included in Section 8.

4. Johnson County

4.1 Fort Worth

Region C has indicated that Fort Worth will grow into Johnson County during the planning period. Brazos G requests that Fort Worth be added as a Brazos G WUG in Johnson County and that population be supplied by Johnson County-Other as indicated in Table 8.

Table 8. Summary of Requested Revisions for Fort Worth

Fort Worth	2020	2030	2040	2050	2060	2070
TWDB projection (Johnson Co)	0	0	0	0	0	0
Revised Population	0	0	0	5,000	8,000	10,000
from Johnson C-O	0	0	0	5,000	8,000	10,000

Adjustments for Johnson County-Other are summarized in Section 8.

4.2 Burleson

Region C is requesting adjustments to the Burleson population in Tarrant and Johnson County. Burleson population increases slightly in Johnson County by adjusting the population in Johnson County-Other. The requested change to Burleson in Brazos G is shown in Table 9.

Table 9. Summary of Requested Revisions for Burleson

Burleson	2020	2030	2040	2050	2060	2070
TWDB projection (G)	33,528	38,685	44,006	49,841	56,135	62,871
Revised Population	35,167	42,845	50,022	54,635	60,711	68,170
Difference (from Johnson C-O)	1,639	4,160	6,016	4,794	4,576	5,299

Adjustments for Johnson County-Other are summarized in Section 8.

5. Hood County

5.1 Decordova and Acton MUD

Decordova Bend Estates is a gated golf course community located near Granbury, Texas. Acton MUD provides retail service to Decordova. Correspondence with the WUG indicated that they are built out and should not have additional population growth beyond 2020. However since Acton MUD provides retail service to Decordova, Brazos G proposes removing Decordova as a WUG and transferring all the population to Acton MUD as indicated in Table 10.

Table 10. Summary of Population Revisions for Decordova

Decordova	2020	2030	2040	2050	2060	2070
TWDB Population	3,288	3,872	4,290	4,650	4,926	5,138
Brazos G Revision	0	0	0	0	0	0
Difference (to Acton MUD)	(3,288)	(3,872)	(4,290)	(4,650)	(4,926)	(5,138)

A recent study (Exhibit 4) for population and water demand projections for Acton MUD was submitted in response to the draft population estimates. The study indicates that Acton MUD is anticipating higher growth than the draft TWDB projections.

Brazos G requests that population estimates for Acton MUD be revised in accordance with Table 11 below. Brazos G would prefer to move population from Decordova as discussed previously and remaining population from Hood County-Other for the period between 2020 and 2070. Acton MUD is also listed in the Demand Revisions memorandum.

Table 11. Summary of Population Revisions for Acton MUD

Acton MUD	2020	2030	2040	2050	2060	2070
TWDB Population	15,545	17,128	18,313	19,372	20,241	20,967
Brazos G Revision	20,107	32,427	40,538	44,779	49,464	54,639
Difference (from Decordova)	3,288	3,872	4,290	4,650	4,926	5,138
Difference (from Hood C-O)	1,274	11,427	17,935	20,757	24,297	28,534

6. Robertson County

6.1 Wellborn SUD

Wellborn SUD responded that TWDB projections do not include a new CCN area that was previously served by OSR WSC in Brazos and Robertson Counties. Based on TCEQ data, the 2011 population for OSR WSC is estimated to be 3,189. A new population projection was developed assuming 50% of the 2011 population from the OSR WSC system are in Robertson County.

Brazos G requests that population estimates for Wellborn SUD in Robertson County be revised in accordance with Table 13. Wellborn SUD is also listed in the Demand Revisions memorandum.

Table 12. Summary of Requested Revisions for Wellborn SUD (Robertson Co)

Wellborn SUD (Robertson County)	2020	2030	2040	2050	2060	2070
TWDB projection	0	0	0	0	0	0
Revised Population	1,804	2,067	2,340	2,673	3,031	3,425
Difference (from Robertson C-O)	1,804	2,067	2,340	2,673	3,031	3,425

6.2 Wickson Creek SUD

Wickson Creek SUD responded to the draft TWDB population estimates by noting that population for Wickson Creek's Wheelock system in Robertson County is not included in the draft TWDB projections. The Wheelock system is located north of the City of Bryan and east of the City of Hearne.

The Wickson Creek SUD Master Plan (Exhibit 3) indicates that the system is served by a 180 gpm well and currently provides to 165 customers and is expected to grow to 204 connections by 2040. Estimates of connections for the Brazos and Grimes County systems were also reviewed from the Master Plan and extrapolated from 2040 to 2070.

Brazos G requests that population estimates for Wickson Creek SUD be revised in accordance with Table 13 below. Brazos G would prefer to move population from Robertson County-Other to Wickson Creek SUD for the planning period. Wickson Creek SUD is also listed in the Demand Revisions memorandum.

Table 13. Summary of Population Revisions for Wickson Creek SUD

Wickson Creek SUD	2020	2030	2040	2050	2060	2070
Robertson County						
TWDB Population	0	0	0	0	0	0
Brazos G Revision	275	297	319	341	363	385
Difference (from Robertson C-O)	275	297	319	341	363	385

7. Williamson County

7.1 Brushy Creek MUD

The Brushy Creek MUD response to the draft population indicates that current estimates are low, but that they expect to be built out between 2020 and 2030. The 2011 WUS estimated a population based on 3.5 ppc which has been revised to 3.06 ppc based on 2010 Census information for the Brushy Creek CDP. The 2011 population should be revised from 21,164 to 15,737. Using the TWDB projection rate between 2010 and 2030 new population estimates are provided in Table 14 below.

Brazos G requests that population estimates for Brushy Creek MUD be revised in accordance with Table 14. Brazos G would prefer to move population from Williamson County-Other to Brushy Creek MUD for the period between 2020 and 2050. Additional population between 2060 and 2070 should be adjusted to Williamson C-O.

Table 14. Summary of Population Revisions for Brushy Creek MUD

Brushy Creek MUD	2020	2030	2040	2050	2060	2070
TWDB Population	14,432	15,710	17,301	19,015	20,958	22,967
Brazos G Revision	17,636	19,198	19,198	19,198	19,198	19,198
Difference (to/from Williamson C-O)	3,204	3,488	1,897	183	(1,760)	(3,769)

The TWDB should also revise the gpcd for 2011 based on the population estimate of 15,737. Brushy Creek MUD is also listed in the Demand Revisions memorandum.

7.2 Cedar Park

Cedar Park requested revisions to the TWDB population estimates indicating that it will be built out by 2040. Population will be shifted from Williamson County-Other between 2020 and 2030 and from Cedar Park to Leander in the remaining decades. Table 15 summarizes revisions for Cedar Park in Brazos G.

Table 15. Summary of Population Revisions for Cedar Park

Cedar Park	2020	2030	2040	2050	2060	2070
TWDB Population (G)	63,308	80,974	101,850	108,018	108,018	108,018
Region G Revision	81,639	85,666	89,688	89,688	89,688	89,688
Difference (from Williamson C-O)	18,331	4,692				
Difference (to Leander)			(12,162)	(18,330)	(18,330)	(18,330)

Documentation from the City to support their population revision request is included in Exhibit 5.

7.4 Leander

Leander requested revisions to the TWDB population estimates. Through coordination with Region K, Table 16 summarizes revisions for Leander in Brazos G. Documentation from the City to support their population revision request is included in Exhibit 6.

Table 16. Summary of Requested Revisions for Leander in Brazos G

Leander	2020	2030	2040	2050	2060	2070
TWDB Projection (G)	47,733	64,226	84,764	106,883	131,965	157,900
Requested Revision	41,071	69,551	115,635	188,502	238,648	293,630
Difference (to Region K)	(6,662)					
Difference (from Williamson C-O)		5,325	18,709	63,289	88,353	117,400
Difference (from Cedar Park)			12,162	18,330	18,330	18,330

7.5 Wells Branch MUD

After draft projections were released, TWDB determined that Wells Branch MUD is not actually in the Brazos G portion of Williamson County but is entirely in the Region K portion.

To correct the error of placing Wells Branch in Brazos G, Williamson County requires small shifts in Williamson County-Other for the two regions. Brazos G requests that Wells Branch MUD be removed as a WUG in Brazos G and that population associated with the WUG in Brazos G's portion of Williamson County be adjusted to Williamson County-Other as shown in Table 17 below.

Table 17. Summary of Requested Revisions for Wells Branch MUD

Wells Branch MUD	2020	2030	2040	2050	2060	2070
TWDB projection (Williamson Co)	1073	1348	1691	2060	2479	2911
Revised Population	0	0	0	0	0	0
Difference (to Williamson C-O)	(1,073)	(1,348)	(1,691)	(2,060)	(2,479)	(2,911)

Correspondence with Kevin Kluge of the TWDB on 6/28/13 is included in Exhibit 7.

8. County-Other

A majority of the population revision requests utilize population from County-Other WUGs in Bell, Brazos, Grimes, Hood, Johnson, Robertson and Williamson counties. Table 18 summarizes the revisions by County.

Table 18. Summary of Population Revisions for County-Other

Bell County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	6,817	12,806	19,706	26,792	33,746	40,590
to 439 WSC	(1,709)	(2,296)	(2,892)	(3,571)	(4,359)	(5,264)
from Pendleton WSC	655	687	721	756	791	825
to Salado WSC	(597)	(652)	(711)	(772)	(831)	(890)
Brazos G Revision	5,166	10,545	16,824	23,206	29,346	35,261

Burleson County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	6,279	6,758	7,059	7,363	7,604	7,799
from county population increase	469	297	299	122	53	0
Brazos G Revision	6,748	7,055	7,358	7,485	7,657	7,799

Brazos County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	8,340	9,731	11,326	13,278	15,369	17,675
to Bryan	(2,172)	0	(7,531)	(8,915)	(10,120)	(11,051)
to College Station	0	(5,691)	0	0	0	0
Brazos G Revision	6,168	4,040	3,795	4,363	5,249	6,624

Johnson County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	16,770	18,970	21,240	23,731	26,419	29,293
to Fort Worth	0	0	0	(5,000)	(8,000)	(10,000)
to Burleson	(1,639)	(4,160)	(6,016)	(4,794)	(4,576)	(5,299)
Region G Revision	15,131	14,810	15,224	13,937	13,843	13,994

Hood County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	28,273	33,484	37,220	40,436	42,909	44,803
to Acton MUD	(1,274)	(11,427)	(17,935)	(20,757)	(24,297)	(28,534)
Brazos G Revision	26,999	22,057	19,285	19,679	18,612	16,269

Robertson County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	5,969	7,105	8,150	9,242	10,286	11,297
to Wickson Creek MUD	(275)	(297)	(319)	(341)	(363)	(385)
to Wellborn SUD	(1,804)	(2,067)	(2,340)	(2,673)	(3,031)	(3,425)
Brazos G Revision	3,890	4,741	5,491	6,228	6,892	7,487

Williamson County-Other	2020	2030	2040	2050	2060	2070
TWDB Projection	70,474	86,753	108,150	147,510	199,135	252,514
to/from Brushy Creek MUD	(3,204)	(3,488)	(1,897)	(183)	1,760	3,769
to Cedar Park	(18,331)	(4,692)	0	0	0	0
to Leander	0	(5,325)	(18,709)	(63,289)	(88,353)	(117,400)
from Wells Branch MUD	1,073	1,348	1,691	2,060	2,479	2,911
Region G Revision	50,012	74,596	89,235	86,098	115,021	141,794

Exhibit 1

439 WSC

Bryan W. Shaw, Ph.D, *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

PWS/0140076/CO

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 30, 2011

TCR/POPUP/0140076
CERTIFIED MAIL
GLEN GRANDY, PRESIDENT
2427 N MAIN ST
BELTON, TX 76513-1517

Subject: Total Coliform Rule Sampling Requirement – INCREASE
439 WSC - PWS ID # 0140076
BELL County, Texas

Dear Public Water Supply Official:

A recent inspection by a Regional investigator of the Texas Commission on Environmental Quality (TCEQ) finds the population served by your public water supply was increased. This requires an adjustment in the minimum number of coliform monitoring samples that must be collected each month.

Previously, the population count for your system was 5323. This count has been updated to 6669 and results in an INCREASE of monthly samples that must be submitted from 6 to 7.

The new sampling requirement will be effective starting in JANUARY 2012.

This sample requirement is the minimum number of distribution samples that must be collected. You may collect more than this amount if necessary to adequately monitor your system.

If you have questions regarding this change, please call a member of the Total Coliform Rule team at (512) 239-4691 or TCEQ regional office.

Sincerely,

John Schildwaechter, Team Leader
Drinking Water Protection Team
Public Drinking Water Section (MC-155)
Water Supply Division

JS/av

cc: TCEQ Region 9

Exhibit 1

439 WSC

Population Based Off Connections

Year	Connections	Annual Increase	Population		Year	Connections	Annual Increase	Population
2002	1528		4584		2036	2985	30	8954
2003	1611		4833		2037	3015	30	9044
2004	1694		5082		2038	3045	30	9134
2005	1779		5337		2039	3075	31	9225
2006	1864		5592		2040	3106	31	9318
2007	1948		5844		2041	3137	31	9411
2008	2026		6078		2042	3168	32	9505
2009	2097		6291		2043	3200	32	9600
2010	2160		6480		2044	3232	32	9696
2011	2214		6642		2045	3264	33	9793
2012	2258		6774		2046	3297	33	9891
2013	2298		6894		2047	3330	33	9990
2014	2332		6996		2048	3363	34	10090
2015	2364		7092		2049	3397	34	10190
2016	2396		7188		2050	3431	34	10292
2017	2428		7284		2051	3465	35	10395
2018	2461		7383		2052	3500	35	10499
2019	2494		7482		2053	3535	35	10604
2020	2528		7584		2054	3570	36	10710
2021	2562		7686		2055	3606	36	10817
2022	2596		7788		2056	3642	36	10926
2023	2622		7866		2057	3678	37	11035
2024	2649		7947		2058	3715	37	11145
2025	2675		8025		2059	3752	38	11257
2026	2702		8106		2060	3790	38	11369
2027	2729	27	8187		2061	3828	38	11483
2028	2756	28	8269		2062	3866	39	11598
2029	2784	28	8352		2063	3905	39	11714
2030	2812	28	8435		2064	3944	39	11831
2031	2840	28	8519		2065	3983	40	11949
2032	2868	29	8605		2066	4023	40	12069
2033	2897	29	8691		2067	4063	41	12189
2034	2926	29	8778		2068	4104	41	12311
2035	2955	30	8865		2069	4145	41	12434
					2070	4186	42	12559

Information came from a report prepared by Roming, Parker & Kasberg, L.L.P. on February 2003
Report only went through the year 2027, projections through the year 2070 used a 1% annual increase which is RPK used starting in year 2023.

Exhibit 4

Exhibit 2

City of Bryan

Braneon, Christian

From: Rhodes, Charles E <rhodes@bryantx.gov>
Sent: Wednesday, May 29, 2013 3:00 PM
To: Braneon, Christian
Subject: RE: Bryan Projections
Attachments: Long-Term Water Supply and Demand Evaluation_12-14-11_jeb.pptx; Copy of Region G Projections_jebsedits.xlsx

Christian,

I have attached two files – hopefully they make it through (the size on the PowerPoint may cause problems). The spreadsheet is a rough translation of the presentation developed by CDM Smith and the City of Bryan to present to our local groundwater district. Our vision of the population/water demand growth comprises, not only historical growth within the City limits, but also development of our CCN area (~ 47,000 acres). I hope this information aids in the development of our projections. Let me know if you require any additional information.

Regards,
Charles

From: Braneon, Christian [mailto:Christian.Braneon@hdrinc.com]
Sent: Wednesday, May 15, 2013 2:07 PM
To: Rhodes, Charles E
Subject: RE: Bryan Projections

Also, please find the 2011 Detailed GPCD report attached for your reference. Thanks.

CHRISTIAN BRANEON
EIT

HDR Engineering, Inc.
Water Resources Engineering

4401 Westgate Blvd., Suite 400 | Austin, TX 78745
Direct: 512.912.5151 | Main: 512.912.5100 | Fax: 512.912.5158
Christian.Braneon@hdrinc.com | hdrinc.com

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From: Braneon, Christian
Sent: Wednesday, May 15, 2013 1:58 PM
To: 'rhodes@bryantx.gov'
Subject: Bryan Projections

Greetings Mr. Rhodes,

It was a pleasure to talk with you earlier. Please find information relevant to the City of Bryan below and attached. As we discussed, a survey was completed recently and Bryan indicated that revisions may be necessary in regards to TWDB projections.

Water Projections

System Demand (Avg Day)

Year	2020	2030	2040	2050	2060	2070
Population	88,434	102,632	144,167	188,879	229,906	279,845
Demand (ac-ft)	16,334.00	17,114.00	23,162.00	29,673.00	35,647.00	42,823.81
Daily Per Capita Use (gallons)	165	149	143	140	138	137

Wholesale Contracts

Year	2020	2030	2040	2050	2060	2070
Wickson Creek SUD (ac-ft)	2,095.00	2,095.00	2,095.00	2,095.00	2,095.00	2,095.00
Wellborn SUD (ac-ft)	2,240.29	2,240.29	2,240.29	2,240.29	2,240.29	2,240.29
Total	4,335.29	4,335.29	4,335.29	4,335.29	4,335.29	4,335.29

Total System Demand (Avg Day)

Year	2020	2030	2040	2050	2060	2070
City of Bryan (ac-ft)	16,334.00	17,114.00	23,162.00	29,673.00	35,647.00	42,823.81
Wholesale Contracts (ac-ft)	2,167.65	2,167.65	2,167.65	2,167.65	2,167.65	2,167.65
Total	18,501.65	19,281.65	25,329.65	31,840.65	37,814.65	44,991.46

System Supply

Year	2020	2030	2040	2050	2060	2070
10 Simsboro Wells (ac-ft)	32,138.16	32,138.16	32,138.16	32,138.16	32,138.16	32,138.16
2 Sparta Wells (ac-ft)	1,401.70	1,401.70	1,401.70	1,401.70	1,401.70	1,401.70
Total (ac-ft)	33,539.86	33,539.86	33,539.86	33,539.86	33,539.86	33,539.86

Surplus/Deficit

Year	2020	2030	2040	2050	2060	2070
System Supply (ac-ft)	33,539.86	33,539.86	33,539.86	33,539.86	33,539.86	33,539.86
System Demand, Avg Day (ac-ft)	18,501.65	19,281.65	25,329.65	31,840.65	37,814.65	44,991.46
Delta (ac-ft)	15,038.22	14,258.22	8,210.22	1,699.22	-4,274.79	-11,451.60

Peak Day

Year	2020	2030	2040	2050	2060	2070
Population	88,434	102,632	144,167	188,879	229,906	279,845
Peak Per Capita Use (gallons)	321	290	280	273	269	265
Peaking Factor	1.94	1.94	1.94	1.94	1.94	1.94
Peak Day (MGD)	28.40	29.80	40.30	51.60	61.90	74.26

Peak Day Surplus/Deficit

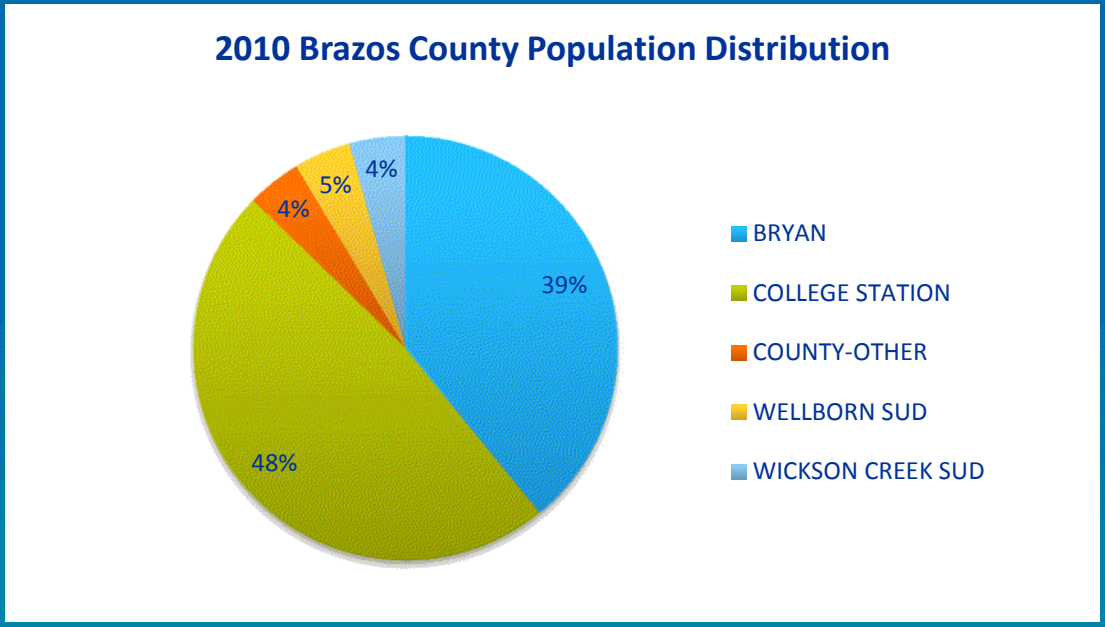
Year	2020	2030	2040	2050	2060	2070
Permit Peak (MGD)	43.06	43.06	43.06	43.06	43.06	43.06
Peak Day (MGD)	28.40	29.80	40.30	51.60	61.90	74.26
Delta (MGD)	14.66	13.26	2.76	-8.54	-18.84	-31.20

Ultimate Population Assessments

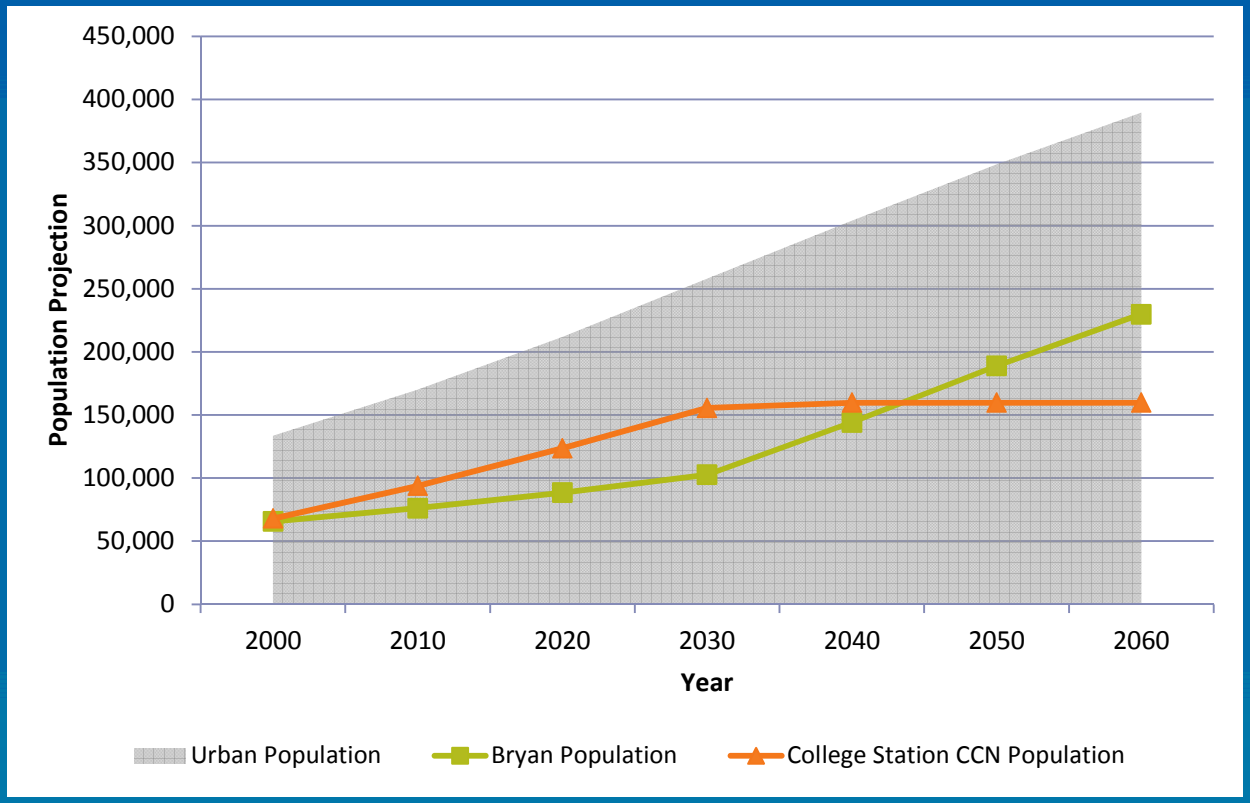
- Assume 5.8 people/gross acre
  - Approximately 2 households per acre
  - Typical of residential areas in Texas
  - Used by CDM for comparable systems
- City of Bryan
  - CCN is 46,612 acres
  - Ultimate population for CCN = 270,350
  - Projected 2060 population = 229,906

Population Projections Methodology

- Urban percent of Brazos County population calculated based on 2000 and 2010 US Census: 87%
- Assume urban population consists mostly of Bryan and College Station



Population Projections



This population projection for Bryan is referred to as the "CCN Assessment"

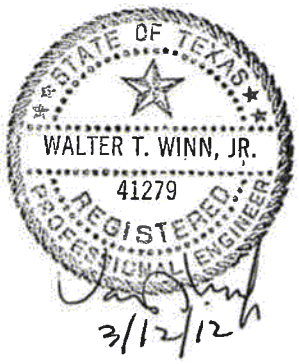
Exhibit 3

Wickson Creek SUD

WICKSON CREEK
SPECIAL UTILITY DISTRICT

MASTER PLAN

March, 2012



Prepared by:

Winn Professional Engineers & Constructors, LLC
Texas Registered Firm No. F-7846
505 Padon, Longview, Texas 75601
P.O. Box 2727, Longview, Texas 75606
903-553-0500
903-553-0555 FAX
www.winnpec.com

TABLE 7
BRAZOS SYSTEM PROJECTED GROWTH
WICKSON CREEK SPECIAL UTILITY DISTRICT

Historical Trend	
Year	Connections
2000	**2,152**
2001	**2,295**
2002	**2,496**
2003	**2,691**
2004	**3,001**
2005	**3,068**
2006	**3,135**
2007	**3,250**
2008	**3,397**
2009	**3,521**
2010	**3,668**
2011	**3,719**
2012	3,863
2013	4,007
2014	4,150
2015	4,294
2016	4,438
2017	4,582
2018	4,725
2019	4,869
2020	5,013
2021	5,157
2022	5,300
2023	5,444
2024	5,588
2025	5,732
2026	5,875
2027	6,019
2028	6,163
2029	6,307
2030	6,450
2031	6,594
2032	6,738
2033	6,882
2034	7,025
2035	7,169
2036	7,313
2037	7,457
2038	7,600
2039	7,744
2040	7,888

Texas Water Development Board		
Year	Population	Connections*
2000	5,743	2,152
2010	8,304	3,111
2020	10,978	4,113
2030	13,437	5,034
2040	15,336	5,746

Service Areas Breakdown (Connections)		
Plant 1	Plant 2	Plant 3
1,753	**368**	**1,598**
1,819	379	1,665
1,885	390	1,732
1,951	401	1,798
2,017	412	1,865
2,083	423	1,932
2,149	434	1,999
2,215	445	2,065
2,281	456	2,132
2,347	467	2,199
2,413	478	2,266
2,479	489	2,332
2,545	500	2,399
2,611	511	2,466
2,677	522	2,533
2,743	533	2,599
2,809	544	2,666
2,875	555	2,733
2,941	566	2,800
3,007	577	2,866
3,073	588	2,933
3,139	599	3,000
3,205	610	3,067
3,271	621	3,133
3,337	632	3,200
3,403	643	3,267
3,469	654	3,334
3,535	665	3,400
3,601	676	3,467
3,667	687	3,534

Items in bold are historical data provided by WCSUD
*Connections based on 2.7 x population
Trend Line Projected growth: **143.75** connections per year (Trend from 2000 to present)
TWDB Projected growth: **91.17** connections per year
Breakdown of Projected Growth into Service Areas:

Plant 1	66 conn./yr.
Plant 2	11 conn./yr.
Plant 3	67 conn./yr.

Figure 1
Brazos System Projected Growth
Wickson Creek SUD

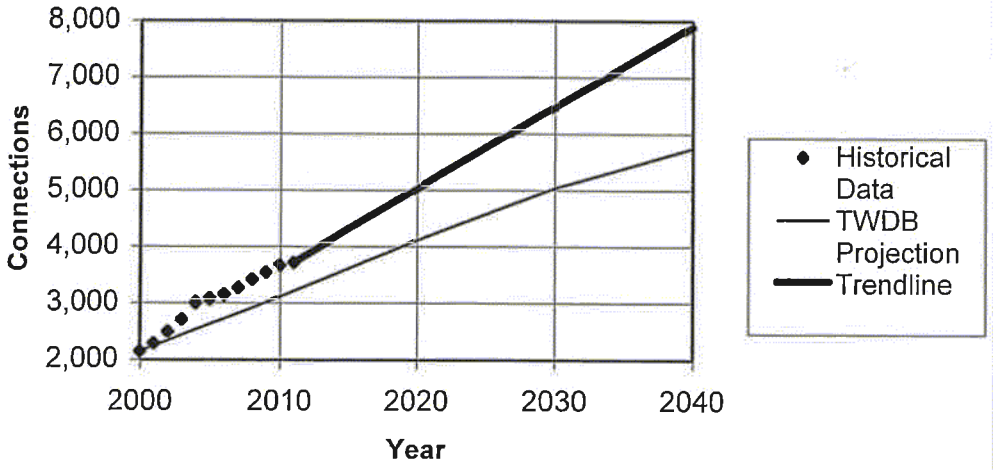


TABLE 8
GRIMES SYSTEM PROJECTED GROWTH
WICKSON CREEK SPECIAL UTILITY DISTRICT

Historical Trend

Year	Connections
2000	**880**
2001	**889**
2002	**915**
2003	**941**
2004	**971**
2005	**1,006**
2006	**1,051**
2007	**1,093**
2008	**1,131**
2009	**1,154**
2010	**1,201**
2011	**1,202**
2012	1,235
2013	1,268
2014	1,300
2015	1,333
2016	1,366
2017	1,399
2018	1,432
2019	1,464
2020	1,497
2021	1,530
2022	1,563
2023	1,596
2024	1,629
2025	1,661
2026	1,694
2027	1,727
2028	1,760
2029	1,793
2030	1,825
2031	1,858
2032	1,891
2033	1,924
2034	1,957
2035	1,989
2036	2,022
2037	2,055
2038	2,088
2039	2,121
2040	2,153

Texas Water Development Board

Year	Population	Connections*
2000	2,792	880
2010	4,614	1,454
2020	6,646	2,095
2030	8,249	2,600
2040	9,363	2,951

Items in bold are historical data provided by WCSUD
*Connections based on 3.2 x population
Trend Line Projected growth: **32.81** connections per year (Trend from 2000 to present)
TWDB Projected growth: **51.77** connections per year

Figure 2
Grimes System Projected Growth
Wickson Creek SUD

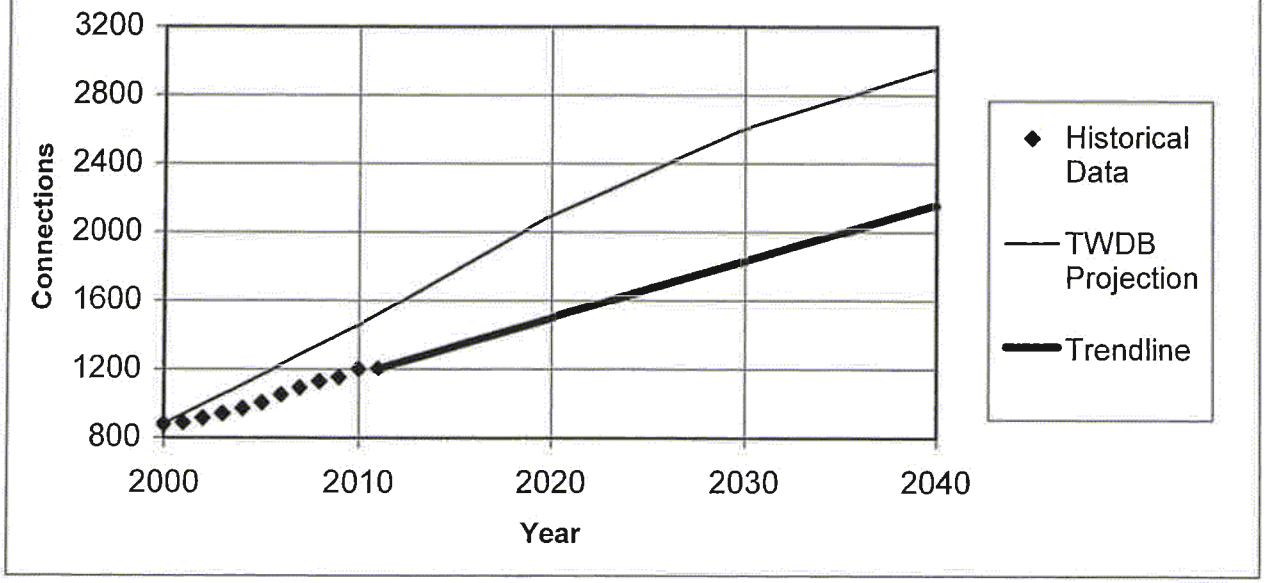


TABLE 9
WHEELOCK SYSTEM PROJECTED GROWTH
WICKSON CREEK SPECIAL UTILITY DISTRICT

Historical Trend	
Year	Connections
2000	**146**
2001	**151**
2002	**156**
2003	**159**
2004	**159**
2005	**160**
2006	**163**
2007	**165**
2008	**166**
2009	**163**
2010	**163**
2011	**163**
2012	164
2013	166
2014	167
2015	169
2016	170
2017	171
2018	173
2019	174
2020	176
2021	177
2022	178
2023	180
2024	181
2025	183
2026	184
2027	185
2028	187
2029	188
2030	190
2031	191
2032	192
2033	194
2034	195
2035	197
2036	198
2037	199
2038	201
2039	202
2040	204

Texas Water Development Board		
Year	Population	Connections*
2000	93	146
2010	151	237
2020	227	356
2030	275	432
2040	308	484

Items in bold are historical data provided by WCSUD
*Connections based on 0.64 x population
Trend Line Projected growth: **1.40** connections per year (Trend from 2000 to present)
TWDB Projected growth: **8.45** connections per year

Figure 3
Wheelock System Projected Growth
Wickson Creek SUD

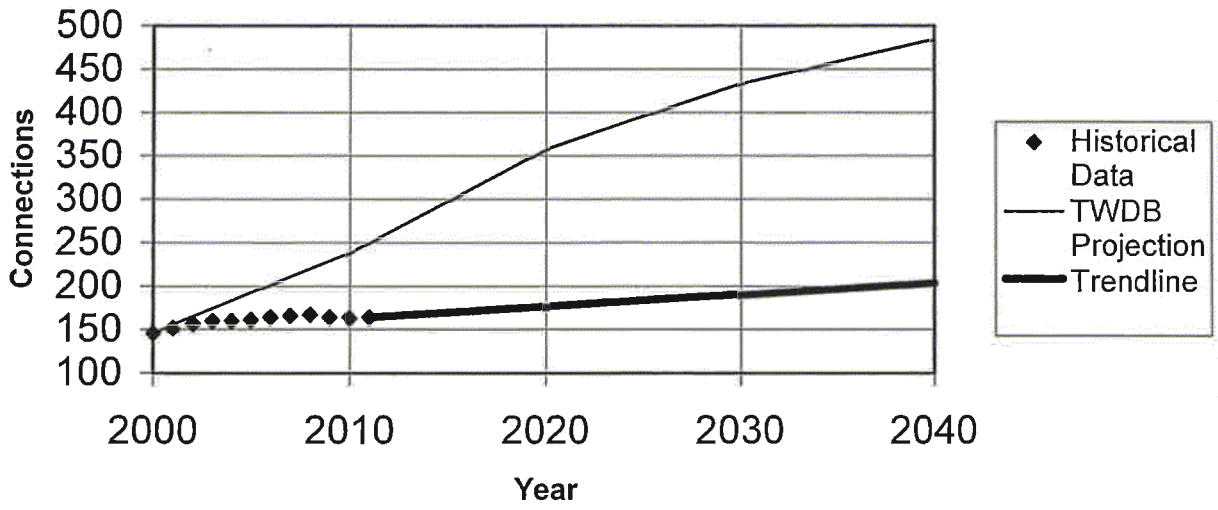


Exhibit 4

Acton MUD

ACTON MUNICIPAL UTILITY DISTRICT

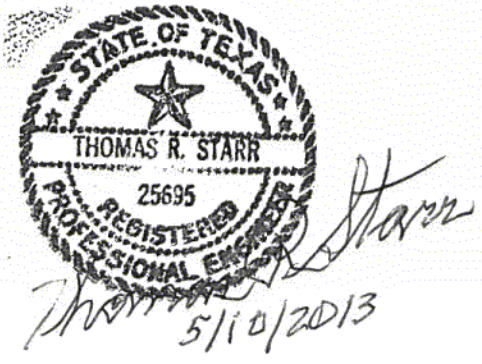
PROJECTED WATER DEMAND STUDY

FOR

WATER REQUIREMENTS FROM 2013 to 2070

MAY 2013

SUBMITTED BY: THOMAS R. STARR, P.E.
REGISTERED No. 25695
FIRM No. F -2918



PROJECTED WATER DEMAND

FOR

ACTON MUNICIPAL UTILITY DISTRICT

2013-2070

A. Scope and Purpose

The primary purpose of this report is to project the future water demands of Acton Municipal Utility District (AMUD) for the District growth to the year of 2070.

The scope of this report is to include:

The water demand plan needed to meet the anticipated needs of the AMUD for the period from 2013 to 2070.

A land use within the Acton Municipal Utility District.

The growth projection for the water connections of the District.

The water demand for AMUD to serve its customers until 2070.

B. Background

The Acton Municipal Utility District (District) was created by an order of the Texas Water Commission, dated July 21, 1982, under the terms and provisions of Article XVI, Section 59 of the Texas Constitution and Chapter 54, Texas Water Code, together with all amendments and additions thereto, and confirmed by an election held within the District on August 14, 1982. The District has all the rights, powers, privileges, authority, and functions conferred by and is subject to all duties imposed by the Texas Water Code, as amended, and the general laws relating to municipal utility districts. The District was created from an existing system, owned and operated by Tarrant Utilities Company, for the purpose of providing water and wastewater services to three major subdivisions and the Acton area.

The District is located in the southeast part of Hood County, surrounding the southern portion of Lake Granbury and the Brazos River, and in southwestern part of Johnson County on the west side of the Brazos River. At creation, the District covered 4,135.23 acres, with 110.46 acres in Pecan Plantation Subdivision in Johnson County. The District is composed of residential property in a number of subdivisions, scattered individual residences and a few small commercial businesses surrounding the southern portion of Lake Granbury.

C. Land Use:

The existing property in the District is primarily single family residential developments. The percent of commercial development in the District is less than two (2) percent of the total number of customers. The commercial customers are small retail stores, convenience stores, professional services and small restaurants. The number of multiple family unit is very small in the District. There are no industrial customers within the District. Future development in the

District is anticipated to continue to be primarily residential. The District has grown to 6,736,180 acres over 31 years.

The future development within the District will continue to be primary single-family residence with a possibility of an increase in muli-family units. There is no indication of any large commercial developments or any industrial developments.

D. Existing Water System

The existing water system serves 6,880 connections as of January 1, 2013

.

The existing water supply comes from twenty-four (24) water supply wells and surface water treated by the Brazos Regional Public Utility Agency's (PUA) Surface Water Treatment Plant (SWATS). The twenty-four (24) wells provide 2,161 gpm. Presently the water production capacity through the PUA's SWATS plant is 4.59 million gallons per day (mgd). AMUD will have increases of 0.5 mgd in 2014 and 0.72 mgd in 2017 for a total capacity of 5.81 mgd through the SWATS plant. This gives the District an existing water supply of 8.92 mgd (6,195.72 gpm) by the end of 2017.

The water supply from the PUA SWATS plant can be delivered to all areas of the District. The District has contracts to provide 9.1 million gallons per month (210.6 gpm) to wholesale customers.

E. Growth Projection

1. Hood County

Prior to 1960, the population of Hood County was fairly stable. In the late 1960s, the Brazos River Authority constructed a dam in the southeast part of Hood County to create Lake Granbury. After 1970, the influence of the lake and its attractiveness to persons wishing to build second homes and retirement homes have caused a dramatic increase in the population of Hood County during the 1980s. The increase in population has continued to the present time. In the mid-1990s, the District had additional growth from people moving from the Dallas-Fort Worth Metroplex to the Lake Granbury area.

TABLE 3
HOOD COUNTY, TEXAS
HISTORICAL POPULATION TREND

YEAR	POPULATION
1870	2,585
1880	6,125
1890	7,614
1900	9,146
1910	10,008
1920	8,759
1930	6,779
1940	6,674
1950	5,287
1960	5,443
1970	6,368
1980	17,714
1990	28,981

2000	41,100
2010	51,182

The growth over the last ten years in the County is 24.53%.

2. Acton Municipal Utility District's Number of Water Connections:

When the District was formed in 1982, there were approximately 1,800 water customers. The District uses the number of connections to determine the water demand needed, based on TCEQ rule of 0.6 gpm per connection.

Table 1 shows AMUD's growth rate from 1987 to 2013 and the projected growth rate to 2070.

The actual number of connections is the number as of January 1 of each year. The Table shows the actual percentage growth rate for each prior year in the last column to the right. The proposed percentage growth rate is also shown in this column.

The year of 2010 is the first and only year when there was a negative growth rate, due to the national economy turn-down. From 2000 to 2010, the average growth rate was 3.84%. It is anticipated that the District will recover from this turn-down and return to a 3.00% growth rate until 2030. From 2030, the District will decline in growth rate to 2039, due to occupying most of the adjoining land to be developed.

F. Future Water Demands:

Table 2 shows AMUD's future water demands from 2013 to 2070.

Column A is the year.

Column B shows the amount of ground water available to AMUD. This amount is to be sustained by new water supply wells and/or reworking existing wells.

Column C is the amount of surface water that AMUD attains for the Brazos Regional Public Utility Agency's Surface Water Treatment Plant. The known increases of 0.5 mgd and 0.72 mgd are shown in 2015 and 2018 respectively.

Column D is the total of ground water and surface water available to AMUD.

Column E is the amount of wholesale water that AMUD has contracts to deliver.

Column F is the total amount of water available for AMUD connections less wholesale water contracts.

Column G is the number of connections that can be served using TCEQ 0.6 rule.

Column H is the estimated number of connections from Table 1.

Column I is the difference between the number of connections that can served and the estimated number of connections A negative number indicates an inadequate s water supply.

Column J is the amount of water needed to meet the demand in acre-feet.

Column K is a projection of population for that year.

F. Summary:

In summary, the needed water demand and estimated population are shown in future 10-year increments.

YEAR	DEMAND IN AC-FT	POPULATION
2020	5411.73	20,107
2030	6532.06	32,427
2040	7652.19	40,538
2050	7652.19	44,779
2060	8772.33	49,464
2070	8772.33	54,639

TABLE 1

NUMBER OF WATER CUSTOMERS

	MONTH	YEAR	ACTUAL	PROJ.	% Growth
	January	1987	2,608		
	January	1988	2,878		10.35%
	January	1989	3,039		5.59%
	January	1990	3,114		2.47%
	January	1991	3,188		2.38%
	January	1992	3,321		4.17%
	January	1993	3,420		2.98%
	January	1994	3,571		4.42%
	January	1995	3,791		6.16%
A	January	1996	3,987		5.17%
C	January	1997	4,193		5.17%
T	January	1998	4,365		4.10%
U	January	1999	4,547		4.17%
A	January	2000	4,787		5.28%
L	January	2001	4,988		4.20%
	January	2002	5,213		4.51%
	January	2003	5,413		3.84%
	January	2004	5,609		3.62%
	January	2005	5,810		3.58%
	January	2006	6,009		3.43%
	January	2007	6,252		4.04%
	January	2008	6,440		3.01%
	January	2009	6,648		3.23%
	January	2010	6,625		-0.35%
	January	2011	6,733		1.63%
	January	2012	6,794		0.91%
	January	2013	6,880		1.27%
	January	2014		6,987	1.55%
	January	2015		7,109	1.75%
P	January	2016		7,251	2.00%
R	January	2017		7,414	2.25%
O	January	2018		7,600	2.50%
J	January	2019		7,809	2.75%
E	January	2020		8,043	3.00%
C	January	2021		8,284	3.00%
T	January	2022		8,533	3.00%
E	January	2023		8,789	3.00%
D	January	2024		9,052	3.00%
	January	2025		9,324	3.00%
	January	2026		9,604	3.00%
	January	2027		9,892	3.00%

1

MONTH	YEAR	ACTUAL	PROJ.	% Growth
January	2028		10,188	3.00%
January	2029		10,494	3.00%
January	2030		10,809	3.00%
January	2031		11,133	3.00%
January	2032		11,453	2.88%
January	2033		11,768	2.75%
January	2034		12,084	2.68%
January	2035		12,386	2.50%
January	2036		12,680	2.38%
January	2037		12,965	2.25%
January	2038		13,247	2.18%
January	2039		13,380	1.00%
January	2040		13,513	1.00%
January	2041		13,649	1.00%
January	2042		13,785	1.00%
January	2043		13,923	1.00%
January	2044		14,062	1.00%
January	2045		14,203	1.00%
January	2046		14,345	1.00%
January	2047		14,488	1.00%
January	2048		14,633	1.00%
January	2049		14,779	1.00%
January	2050		14,927	1.00%
January	2051		15,076	1.00%
January	2052		15,227	1.00%
January	2053		15,380	1.00%
January	2054		15,533	1.00%
January	2055		15,689	1.00%
January	2056		15,846	1.00%
January	2057		16,004	1.00%
January	2058		16,164	1.00%
January	2059		16,326	1.00%
January	2060		16,489	1.00%
January	2061		16,654	1.00%
January	2062		16,820	1.00%
January	2063		16,989	1.00%
January	2064		17,158	1.00%
January	2065		17,330	1.00%
January	2066		17,503	1.00%
January	2067		17,678	1.00%
January	2068		17,855	1.00%
January	2069		18,034	1.00%
January	2070		18,214	1.00%

TABLE 2 - FUTURE WATER DEMANDS

A	B	C	D	E	F	G	H	I	J	K
	WATER SUPPLY WELLS	SWATS PLANT in gpm	Subtotal in gpm	LESS WHOLESALE in gpm	TOTAL in gpm	Number of Connections Can Serve @ 0.6 gpm	EST. No. of CONN.	DIFF. in Conn.	DEMAND IN AC-FT	POPULATION
2012	2,161.0	3,187.3	5,348.3	210.6	5,137.7	8563	6,794	1769	4845.02	16,985
2013	2,161.0	3,187.3	5,348.3	210.6	5,137.7	8563	6,880	1683	4865.24	17,200
2014	2,161.0	3,187.3	5,348.3	210.6	5,137.7	8563	6,987	1576	4865.24	17,467
2015	2,161.0	3,534.3	5,695.3	210.6	5,484.7	9141	7,109	2032	5089.12	17,772
2016	2,161.0	3,534.3	5,695.3	210.6	5,484.7	9141	7,251	1890	5089.12	18,128
2017	2,161.0	3,534.3	5,695.3	210.6	5,484.7	9141	7,414	1727	5089.12	18,536
2018	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	7,600	2375	5411.73	18,999
2019	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	7,809	2166	5411.73	19,521
2020	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	8,043	1932	5411.73	20,107
2021	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	8,284	1690	5411.73	21,704
2022	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	8,533	1442	5411.73	22,782
2023	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	8,789	1186	5411.73	23,729
2024	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	9,052	922	5411.73	24,622
2025	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	9,324	651	5411.73	25,641
2026	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	9,604	371	5411.73	26,602
2027	2,161.0	4,034.3	6,195.3	210.6	5,984.7	9975	9,892	83	5411.73	27,895
2028	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	10,188	2680	6532.06	29,139
2029	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	10,494	2374	6532.06	30,118
2030	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	10,809	2060	6532.06	32,427
2031	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	11,133	1735	6532.06	33,399
2032	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	11,453	1415	6532.06	34,360
2033	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	11,768	1100	6532.06	35,305
2034	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	12,083	785	6532.06	36,249
2035	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	12,385	483	6532.06	37,155
2036	2,161.0	5,770.7	7,931.7	210.6	7,721.1	12869	12,679	189	6532.06	38,038
2037	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	12,965	2797	7652.19	38,894
2038	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	13,246	2516	7652.19	39,739
2039	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	13,379	2383	7652.19	40,137

AMUD FUTURE WATER DEMANDS

	WATER SUPPLY WELLS	SWATS PLANT in gpm	Subtotal in gpm	LESS WHOLESALE in gpm	TOTAL in gpm	Number of Connections Can Serve @ 0.6 gpm	EST. No. of CONN.	DIFF. in Conn.	DEMAND IN AC-FT	POPULATION
2040	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	13,513	2249	7652.19	40,538
2041	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	13,648	2114	7652.19	40,944
2042	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	13,784	1978	7652.19	41,353
2043	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	13,922	1840	7652.19	41,767
2044	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,061	1701	7652.19	42,184
2045	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,202	1560	7652.19	42,606
2046	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,344	1418	7652.19	43,032
2047	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,487	1275	7652.19	43,462
2048	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,632	1130	7652.19	43,897
2049	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,779	983	7652.19	44,336
2050	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	14,926	836	7652.19	44,779
2051	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	15,076	686	7652.19	45,227
2052	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	15,226	536	7652.19	45,679
2053	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	15,379	383	7652.19	46,136
2054	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	15,533	229	7652.19	46,598
2055	2,161.0	7,506.8	9,667.8	210.6	9,457.2	15762	15,688	74	7652.19	47,064
2056	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	15,845	2811	8772.33	47,534
2057	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,003	2652	8772.33	48,010
2058	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,163	2492	8772.33	48,490
2059	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,325	2331	8772.33	48,975
2060	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,488	2167	8772.33	49,464
2061	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,653	2003	8772.33	49,959
2062	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,820	1836	8772.33	50,459
2063	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	16,988	1668	8772.33	50,963
2064	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	17,158	1498	8772.33	51,473
2065	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	17,329	1326	8772.33	51,988
2066	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	17,502	1153	8772.33	52,507
2067	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	17,677	978	8772.33	53,032
2068	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	17,854	801	8772.33	53,563
2069	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	18,033	623	8772.33	54,098
2070	2,161.0	9,242.9	11,403.9	210.6	11,193.3	18656	18,213	442	8772.33	54,639

Exhibit 5

City of Cedar Park

Cedar Park Water Service Population

Year	Travis County Population	Williamson County Population	Total Population
2012	10,245	72,534	82,779
2013	10,317	74,325	84,642
2014	10,380	75,955	86,335
2015	10,433	77,197	87,630
2016	10,487	78,020	88,506
2017	10,541	78,850	89,391
2018	10,597	79,688	90,285
2019	10,653	80,083	90,737
2020	10,711	80,479	91,190
2021	10,770	80,876	91,646
2022	10,830	81,274	92,104
2023	10,891	81,674	92,565
2024	10,953	82,074	93,028
2025	11,017	82,476	93,493
2026	11,082	82,879	93,960
2027	11,147	83,283	94,430
2028	11,215	83,688	94,902
2029	11,283	84,094	95,377
2030	11,353	84,501	95,854
2031	11,424	84,909	96,333
2032	11,496	85,318	96,815
2033	11,570	85,729	97,299
2034	11,645	86,140	97,785
2035	11,722	86,552	98,274
2036	11,800	86,965	98,766
2037	11,880	87,380	99,259
2038	11,961	87,795	99,756
2039	12,044	88,211	100,254
2040	12,128	88,518	100,646

Exhibit 6

City of Leander

City of Leander, Texas

Mr. John Burke
Chairman, LCRA Regional Water Planning Group

June 3, 2013

C/O Ms. Jaime Burke, P.E. or Ms. Virginia Wilkinson
AECOM
400 W. 15th Street, Suite 500
Austin, TX 78701

Re: LCRA Regional Water Planning Area (Region K)
Draft Population and Water Demand Projections
for the 2016 Regional Water Plan

Mr. Burke,

As requested in your letter dated April 24, 2013, the following population and water demand projections in Table 1 (Columns 3 & 5 respectively) are submitted on behalf of the City of Leander. Please note that the Region K population and municipal water demand projections listed for Leander included only part of the City of Leander that lies within Travis County. As of January 1, 2013, approximately 735 of 10,047 active water accounts were in Travis County and the remaining 9,312 connections were in Williamson County. However, Leander's Interbasin Transfer Permit No. 5677B allows the transfer of up to 24,000 ac-ft per year from the Colorado River Basin for municipal use within the City of Leander (in both Travis and Williamson Counties).

The attached tables and graph depict projected growth and associated municipal water demands for the City of Leander through 2050. Leander's Water Master Plan, dated 01/31/2011 is the basis for the projected populations. The master plan population projections were adjusted according to 3 factors:

1. 2010 Census Population for Leander of 26,559
2. Total City-wide Water Consumption from 2008-2012
3. 138 Gallons per Capita per Day for 2012

The adjusted master plan water demand projections approximately follow actual water use from 2008-2012. Since January 1, 2010, the City of Leander has annexed 3,368 acres. The annexation table lists annexations through May 2013. These annexations amount to approximately 13,000 single family lots in various stages of development, from concept plan to homes under construction. The City issued 295 single family residential building permits in 2013 (Jan-May), 53 more than all of 2010. Despite a recent downturn in the economy that delayed new home construction; recent annexations and increased development activity in the City of Leander indicate growth rates and water demand projections similar to the 2011 Leander Water Master Plan, albeit 4-5 years later.

Should you have any questions regarding this letter, please contact me at pwomack@leandertx.gov or (512) 259-2640.

Sincerely,

Patrick A. Womack, P.E.
Public Works Director
City of Leander

xc: Kent Cagle
Wayne Watts

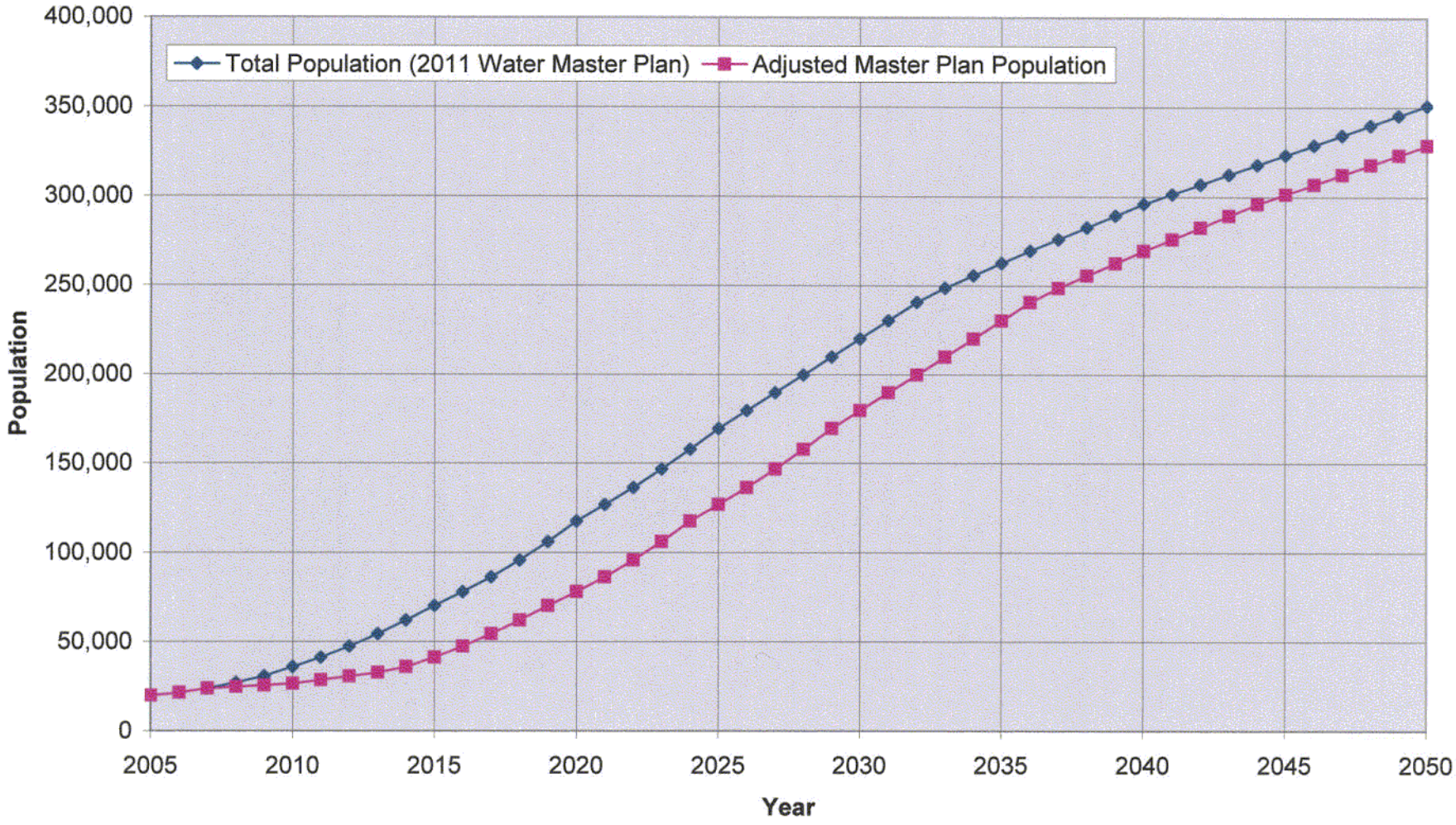
Attachments

1. Table 1: City of Leander Service Area Population and Municipal Water Demands
2. Graph 1: Total Leander Population with Adjusted Projections
3. Graph 2 Leander Municipal Water Demands
4. Table 2 Leander 2010-2013 Annexations
5. Table 3 Leander Single Family Residential New Building Permits
6. Leander Lot Inventory Map, dated 4/24/2013
7. Leander 2012 TWDB Report
8. Leander Water Master Plan, dated 01/31/2011
9. Leander 2010 Census Data
10. LCRA Region K Letter, dated 4/24/2013
11. Interbasin Transfer Permit No. 5677B

Table 1

1	2	3	4	5	6	7	8
Year	Water Master Plan Total Leander Population	Adjusted Population Projections	Adjusted Annual Growth Rate	Ac-Ft/Year at 138 GPCD	Actual Total Water Purchased (Gallons)	Actual Total Water Purchased 2008-2012 Ac-Ft/Year	% Difference Projected vs Actual
2005	19,846	19,846		3,068			
2006	21,509	21,509	8.4%	3,325			
2007	23,898	23,898	11.1%	3,694			
2008	27,088	24,785	3.7%	3,831	1,359,047,000	4,171	8.9%
2009	30,750	25,672	3.6%	3,968	1,164,765,000	3,575	-9.9%
2010	35,920	**26,559**	3.5%	4,105	1,354,000,000	4,155	1.2%
2011	41,341	28,624	7.8%	4,425	1,536,000,000	4,714	6.5%
2012	47,549	30,689	7.2%	4,744	1,468,920,000	4,508	-5.0%
2013	54,445	32,754	6.7%	5,063			
2014	62,121	35,920	9.7%	5,552			
2015	70,334	41,341	15.1%	6,391			
2016	78,191	47,549	15.0%	7,350			
2017	86,430	54,445	14.5%	8,416			
2018	95,824	62,121	14.1%	9,603			
2019	106,214	70,334	13.2%	10,872			
2020	117,684	78,191	11.2%	12,087			
2021	126,949	86,430	10.5%	13,360			
2022	136,452	95,824	10.9%	14,812			
2023	146,728	106,214	10.8%	16,419			
2024	157,844	117,684	10.8%	18,192			
2025	169,571	126,949	7.9%	19,624			
2026	179,690	136,452	7.5%	21,093			
2027	189,650	146,728	7.5%	22,681			
2028	199,719	157,844	7.6%	24,400			
2029	209,898	169,571	7.4%	26,212			
2030	220,048	179,690	6.0%	27,776			
2031	230,319	189,650	5.5%	29,316			
2032	240,686	199,719	5.3%	30,872			
2033	248,652	209,898	5.1%	32,446			
2034	255,719	220,048	4.8%	34,015			
2035	262,641	230,319	4.7%	35,603			
2036	269,562	240,686	4.5%	37,205			
2037	276,208	248,652	3.3%	38,437			
2038	282,855	255,719	2.8%	39,529			
2039	289,501	262,641	2.7%	40,599			
2040	296,147	269,562	2.6%	41,669			
2041	301,615	276,208	2.5%	42,696			
2042	307,083	282,855	2.4%	43,724			
2043	312,552	289,501	2.3%	44,751			
2044	318,020	296,147	2.3%	45,778			
2045	323,488	301,615	1.8%	46,624			
2046	328,956	307,083	1.8%	47,469			
2047	334,424	312,552	1.8%	48,314			
2048	339,892	318,020	1.7%	49,159			
2049	345,360	323,488	1.7%	50,005			
2050	350,828	328,956	1.7%	50,850			

Graph 1:Total Leander Population



Graph 2: Leander Municipal Water Demands

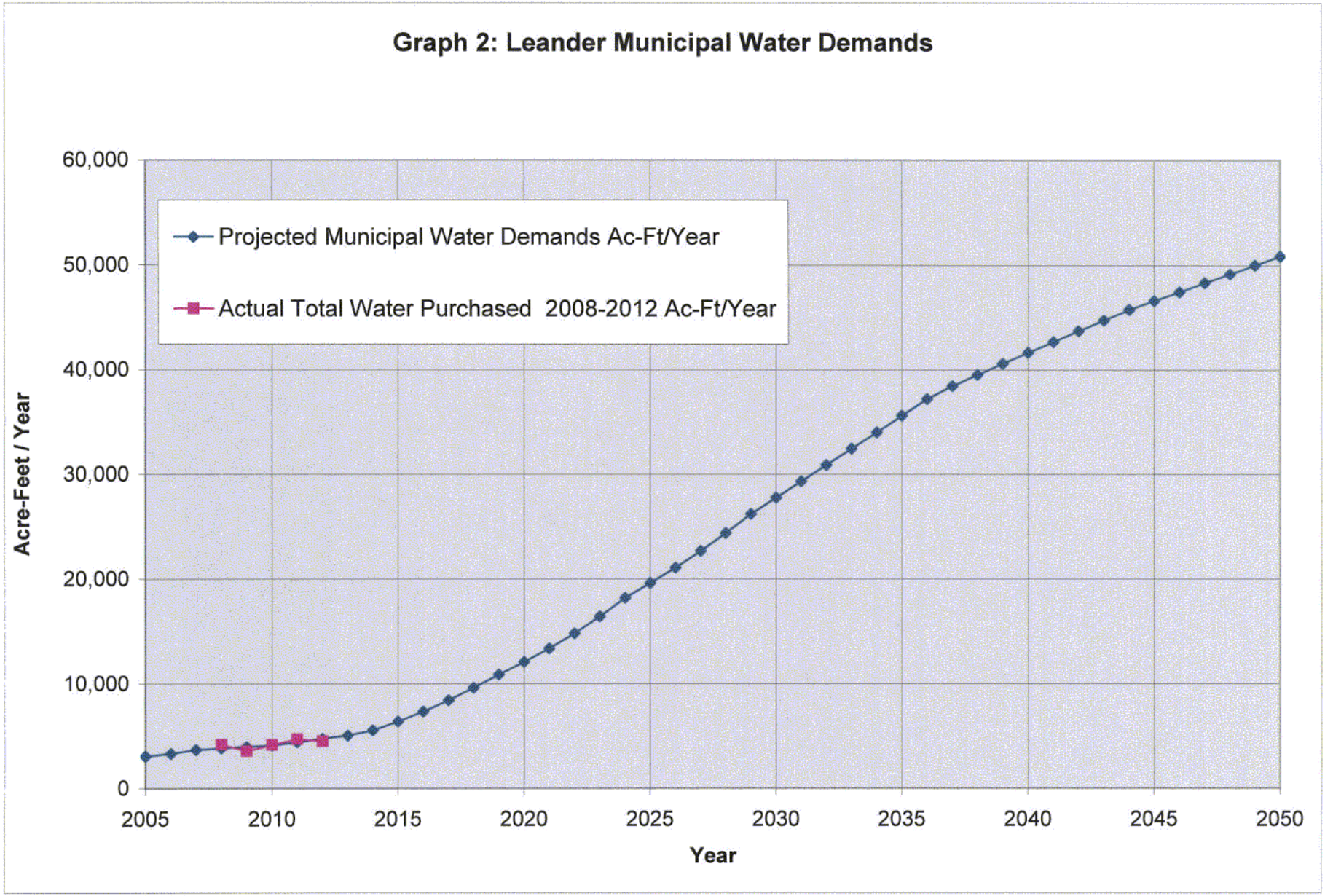


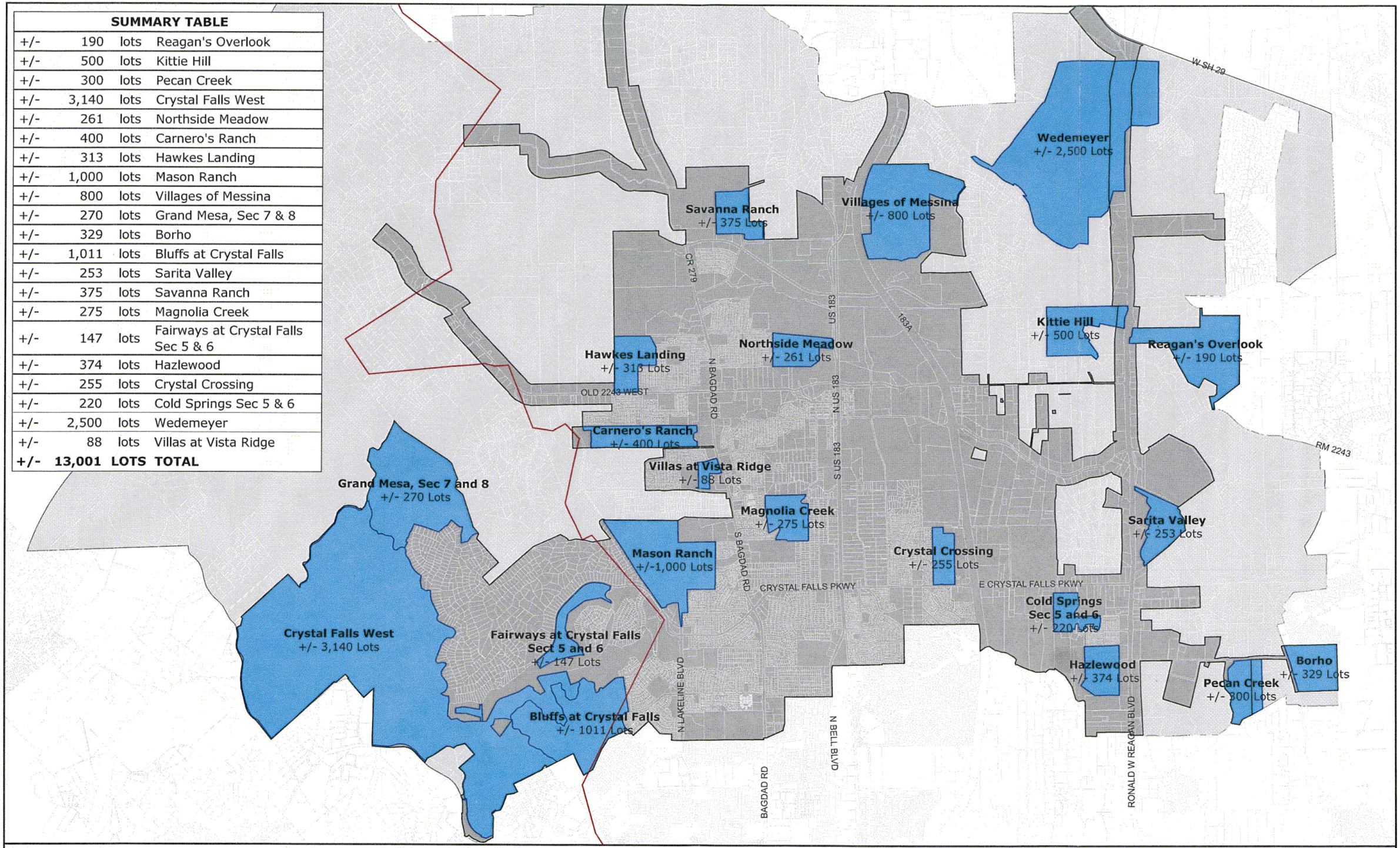
Table 2: City of Leander Annexations 2010-2013

Date Annexed	Property Name	Annexation Ordinance	Area (Acres)	City Limits (Acres)	City Limits (Sq. Miles)	Annual % Increase
2010	**Leander City Limits on 1/1/2010**			**14,446**	**22.6**	
04/15/2010	LISD Burleson	10-006-00	26.13	14,472	22.6	
10/07/2010	Joseph Tract	10-025-00	68.26	14,540	22.7	
10/21/2010	CR 269	10-026-00	65.83	14,606	22.8	
		2010 Subtotal:	160.22			
2011	**Leander City Limits on 1/1/2011**			**14,606**	**22.8**	**1.1%**
	(No annexations in CY 2011)					
2012	**Leander City Limits on 1/1/2012**			**14,606**	**22.8**	**0.0%**
05/03/2012	Crystal Falls West	12-020-00	1,933.40	16,539	25.8	
07/05/2012	Meihaus Tract	12-030-00	51.69	16,591	25.9	
09/20/2012	Burleson Strip	12-046-00	4.71	16,596	25.9	
09/20/2012	CHWS - Crystal Falls Multi-Family	12-047-00	9.32	16,605	25.9	
09/20/2012	Katusak	12-051-00	76.71	16,682	26.1	
10/18/2012	Reagan's Overlook	12-054-00	248.94	16,931	26.5	
12/20/2012	SWC 2243 and Reagan Blvd - Beasley	12-061-00	2.07	16,933	26.5	
12/20/2012	SWC 2243 and Reagan Blvd - Wilco	12-062-00	1.28	16,934	26.5	
		2012 Subtotal:	2,328.11			
2013	**Leander City Limits on 1/1/2013**			**16,934**	**26.5**	**15.9%**
01/17/2013	Unilateral Area A	13-001-00	10.01	16,944	26.5	
01/17/2013	Unilateral Area B	13-002-00	126.43	17,071	26.7	
01/17/2013	Unilateral Area C	13-003-00	257.75	17,328	27.1	
01/17/2013	Unilateral Area D	13-004-00	212.40	17,541	27.4	
01/17/2013	Unilateral Area E	13-005-00	0.07	17,541	27.4	
01/17/2013	Unilateral Area F	13-006-00	22.07	17,563	27.4	
01/17/2013	Unilateral Area G	13-007-00	97.94	17,661	27.6	
01/17/2013	Unilateral Area H	13-008-00	0.97	17,662	27.6	
02/21/2013	Simpson	13-012-00	0.80	17,663	27.6	
02/21/2013	Borho	13-013-00	121.10	17,784	27.8	
05/02/2013	Leander Farm	13-030-00	0.71	17,784	27.8	
05/02/2013	Ramaker	13-031-00	29.31	17,814	27.8	
		2013 Subtotal:	879.55			
May 2013	**Leander City Limits on 5/2/2013**			**17,814**	**27.8**	**5.2%**

Table 3: City of Leander Single Family Residential New Building Permits 2010-May 2013

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2010	16	27	38	34	19	13	11	19	12	15	28	10	242
2011	19	21	34	41	37	33	24	35	25	18	25	13	325
2012	20	42	51	32	43	43	34	55	25	35	15	23	418
2013	36	48	41	81	89								295

SUMMARY TABLE			
+/-	190	lots	Reagan's Overlook
+/-	500	lots	Kittie Hill
+/-	300	lots	Pecan Creek
+/-	3,140	lots	Crystal Falls West
+/-	261	lots	Northside Meadow
+/-	400	lots	Carnero's Ranch
+/-	313	lots	Hawkes Landing
+/-	1,000	lots	Mason Ranch
+/-	800	lots	Villages of Messina
+/-	270	lots	Grand Mesa, Sec 7 & 8
+/-	329	lots	Borho
+/-	1,011	lots	Bluffs at Crystal Falls
+/-	253	lots	Sarita Valley
+/-	375	lots	Savanna Ranch
+/-	275	lots	Magnolia Creek
+/-	147	lots	Fairways at Crystal Falls Sec 5 & 6
+/-	374	lots	Hazlewood
+/-	255	lots	Crystal Crossing
+/-	220	lots	Cold Springs Sec 5 & 6
+/-	2,500	lots	Wedemeyer
+/-	88	lots	Villas at Vista Ridge
+/-	**13,001**	**LOTS**	**TOTAL**



CITY OF LEANDER, TEXAS

Lot Inventory Map
Updated April 24, 2013

2,000 0 2,000 4,000 6,000 Feet

Active Subdivisions
City Limits
ETJ

Lot counts shown are from preliminary data. Final lot counts may differ upon final plat of the property.

Exhibit 7

Wells Branch MUD

Dunn, David

From: Newell, Peter
Sent: Friday, June 28, 2013 11:51 AM
To: Dunn, David; Shockley, Cory
Subject: Fw: Wells Branch MUD
Attachments: 20130529 Wells Branch MUD - Williamson Co adj.xlsx

Fyi
Notice his comment that Williamson C-O will adjust slightly

From: Kevin Kluge <Kevin.Kluge@twdb.texas.gov>
Date: Jun 28, 2013 11:26 AM
Subject: Wells Branch MUD
To: Burke, Jaime (Jaime.Burke@aecom.com) <Jaime.Burke@aecom.com>; Newell, Peter <Peter.Newell@hdrinc.com>
CC: Wilkinson, Virginia (Virginia.Wilkinson@aecom.com) <Virginia.Wilkinson@aecom.com>; David Meesey <David.Meesey@twdb.texas.gov>; Yun Cho <Yun.Cho@twdb.texas.gov>

Dear Jaime and Peter,

Last month, the Region G consultants asked to look at Wells Branch MUD's 2010 population estimate and the 2011 population estimate used in the GPCD calculation.

Soon afterward, it was determined that we had erroneously place part of the MUD in the Region G portion of Williamson County rather than the Region K portion.

This email will attempt to describe:
1) the correct placement of the WUG, and
2) potential revision to the MUD's population

Please contact myself or Yun regarding questions.

1) Well Branch MUD Placement
Utilizing the draft projections, the placement of the district's projections should be place in Region K Travis and Williamson counties.

Region	County_Name	CityID_Num	DB17_Name	P2000	P2010	P2020	P2030	P2040	P2050	P2060	P2070	GPC
K	WILLIAMSON	4378	WELLS BRANCH MUD	168	702	1073	1348	1691	2060	2479	2911	
K	TRAVIS	4378	WELLS BRANCH MUD	8211	10488	10488	10488	10488	10488	10488	10488	

			TOTAL	**8379**	**11190**	**11561**	**11836**	**12179**	**12548**	**12967**	**13399**	

To correct the error of placing Wells Branch in Region G Williamson county requires small shifts in Williamson County-Other for the two regions. Attached is an excel sheet which illustrates the corrected County-Other figures for each county.

2) 2010 Population Estimate

WELLS BRANCH MUD

2011 WUS Population = 7,964
2010 Census Population = 11,190
The population estimation for the MUD has proven to be a challenge due to the number of multi-family units.

- **2011 WUS (18,000)** - The population-served reported in the 2011 WUS was 18,000. Margaret Wingrove of Crossroads Utility Services calculated the estimate by multiplying the number of single-family residences served (2,764) by 3.5 for a 9,674 population and the number of apartment units (4,015) by 2 for a 8,030 population. The total was 17,704, rounded up to 18,000.
- **2011 GPCD Detail Report (7,964)** In the District's 2011 survey, a population-served was reported as 18,000 with total connections equal to 2,896. Because the calculated people-per-connection is > than 4.71, then the coding calculated the pop-served as 2,896 connections time 2.75 (2010 state average people-per-household), or 7,964.
- **2010 Census Population (11,190)** – The 2010 Census estimate for the MUD (not the CDP) was calculated based upon GIS analysis of 2010 Census blocks and the district boundary, including blocks whose centroid is within the service area.

Based upon the account/unit information received from Ms. Wingrove and Donna Howe of Wells Branch MUD, staff suggests that if the district and region desires to change to the projections of the district that one of two new 2010 population estimates be considered:

1. **Revised GIS Analysis (13,364):** The GIS analysis was done again but included a number of blocks that were not included in the initial estimate because the centroid of the census block was not within the district boundary. Upon further analysis, it was determine that the block's population is quite likely within the district regardless of the geographical centroid. Or,
2. **Connection Estimate (14,122):** Based upon the number of single family (2,764) and multi-family (4,015) connections, the average household size for the overlapping Census tracts (2.52 for owner-occupied and 1.95 for renter-occupied), and the average vacancy rates in the tracts (1.03% for owner-occupied and 7.68% for renter-occupied), the population is estimated as 6,894 for the apartments and 14,122 total.

Any population/demand revision should include any feedback received from the district, particularly regarding build-out.

The base GPCD (189) will be altered by the decision on any population revisions. For instance, if the 2010 population estimate is increased to 13,364, the base GPCD will decrease to approximately 113. Staff are happy to discuss further.

Thank you.

Kevin

Kevin Kluge, AICP
Manager, Water Uses & Projections
512-936-0829

Memo

Date:	Tuesday, July 15, 2014
Project:	Brazos G 2016 Regional Water Plan
To:	Texas Water Development Board
From:	Peter Newell and Cory Shockley, HDR
Subject:	Draft Cedar Park Population and GPCD Revisions

The City of Cedar Park is requesting revisions to the current TWDB population projections and demand projections. The adjustment to the City's population projections for the Williamson County portion is shown in Table 1. The City is expected to be built out around the year 2030. Official population planning estimates for the City of Cedar Park are included in Exhibit 1. The difference in population would be added to Williamson County-Other.

Table 1. Population Projections for Cedar Park

County	WUG	Source	2020	2030	2040	2050	2060	2070
WILLIAMSON	CEDAR PARK	TWDB	81,639	85,666	89,688	89,688	89,688	89,688
		revised	71,518	79,329	79,329	79,329	79,329	79,329
Difference			(10,121)	(6,337)	(10,359)	(10,359)	(10,359)	(10,359)
TRAVIS	CEDAR PARK	TWDB	9,551	10,188	10,958	10,958	10,958	10,958
		revised	9,551	10,188	10,958	10,958	10,958	10,958
Difference			0	0	0	0	0	0

Williamson-Travis Co MUD #1, Blockhouse MUD

Cedar Park sells wholesale supplies to Blockhouse MUD and Williamson-Travis County MUD#1. These two MUDs have projections that extend past their build-out and should be revised as indicated in Table 2. Population will be shifted to Williamson County Other. Documentation from the utility is provided in Exhibit 2.

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P 512.912.5100

Table 2. Blockhouse MUD and Williamson-Travis County MUD#1 Population Projections

County	WUG	Source	2020	2030	2040	2050	2060	2070
WILLIAMSON	BLOCKHOUSE MUD	TWDB	8,326	9,918	11,900	14,035	16,456	18,959
		revised	6,417	6,417	6,417	6,417	6,417	6,417
Difference			(1,909)	(3,501)	(5,483)	(7,618)	(10,039)	(12,542)
WILLIAMSON	WILLIAMSON-TRAVIS COUNTY MUD #1	TWDB	7,062	8,872	11,125	13,552	16,304	19,150
		revised	4,353	4,134	3,927	3,696	3,491	3,301
Difference			(2,709)	(4,738)	(7,198)	(9,856)	(12,813)	(15,849)
TRAVIS	WILLIAMSON-TRAVIS COUNTY MUD #1	TWDB	1,416	1,635	1,842	2,073	2,278	2,468
		revised	1,416	1,635	1,842	2,073	2,278	2,468
Difference			0	0	0	0	0	0

Adjustments to 2011 Water Use Survey (WUS) for revised GPCD

Table 3 below compares what Cedar Park Water Utilities submitted for their 2011 Annual Water Use Survey, how the TWDB used that information and the City's requested revisions to the survey. TWDB assumed a percent of the population in the city limits was not being served by the City since the current CCN coverage was not over part of the city. However this population is being served by the City and there is no non-system water. TWDB calculated 10% of supplies were used outside city limits; however, the total retail population in the ETJ is estimated at 11,334. This represents about 18% of 62,875 of the City's total service population. As a result of these adjustments the calculated gpcd is 196.7.

Proposed revisions to the 2011 WUS for Cedar Park include the following:

- Remove non-system supply (346 million gallons)
- Use estimate of 18% of supplies used outside of City limits in ETJ

Table 3. Cedar Park WUS and Revisions

Item	CPWU	TWDB	Revision
Population in City Limits		51,541	51,541
Non-system population[1]		8,247	0
Utility population outside CL[2]		5,277	11,334
Utility population served	68,000	56,818	62,875
	Volumes in millions of gallons		
Surface Water Supply	5,551	5,551	5,551
Surface Water less Outside CL[2]	0	4,996	4,550
Non Sys Water[3]	0	346	0
Total Sales	703	1,037	1,037
Sales less Outside CL[2]	0	933	850
Total Net Use	4,848	4,861	4,514
Total Net Use less Outside CL[2]	0	4,409	3,701
GPCD	**195.3**	**234.4**	**196.7**

1 – TWDB assumed 16% of City's population is not in CPWU CCN; however, the total City population is being served by CPWU

2 - TWDB assumed 10% of demand associated with Travis County-Other; actual amount closer to 18%

3 – TWDB assumed self-supplied groundwater using non-system population and 110 gpcd

Exhibit 1

The City of Cedar Park Population Projections for City Limits and Extra Territorial Jurisdiction

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P 512.912.5100

City of Cedar Park
Population Estimates & Forecasts

Year	City Population	City % Growth	ETJ Population	ETJ % Growth	Total Service Area Population	Total Service Area % Growth
1970 Census	687					
1980 Census	3,474					
1989					11,081	
1990 Census	5,161					
1990	5,387		6,147		11,534	
1991	5,620	4.33%	6,651		12,271	6.39%
1992	6,941	23.51%	6,381	-4.06%	13,322	8.56%
1993	8,228	18.54%	7,387	15.77%	15,615	17.21%
1994	10,181	23.74%	7,418	0.42%	17,599	12.71%
1995	14,832	45.68%	5,079	-31.53%	19,911	13.14%
1996	16,962	14.36%	6,061	19.33%	23,023	15.63%
1997	19,055	12.34%	8,392	38.46%	27,447	19.22%
1998	21,669	13.72%	9,753	16.22%	31,422	14.48%
1999	25,285	16.69%	11,193	14.76%	36,478	16.09%
City Estimates for 4/1/00**	26,060	~~	11,589	~~	37,649	~~
2000 Census**	26,049	~~	~~	~~	~~	~~
2000	28,675	13.41%	12,590	12.48%	41,265	13.12%
2001	29,808	3.95%	14,301	13.59%	44,109	6.89%
2002	32,692	9.68%	15,886	11.08%	48,578	10.13%
2003	35,176	7.60%	17,314	8.99%	52,490	8.05%
2004	37,524	6.68%	18,686	7.92%	56,210	7.09%
2005	42,618	13.58%	19,855	6.26%	62,473	11.14%
2006	45,306	6.31%	20,619	3.85%	65,925	5.53%
2007	50,220	10.85%	22,595	9.58%	72,815	10.45%
2008	51,856	3.26%	23,358	3.38%	75,214	3.30%
2009	54,015	4.16%	23,638	1.20%	77,653	3.24%
City Estimates for 4/1/10***	54,279	~~	23,689	~~	77,969	~~
2010 Census	48,932	~~	~~	~~	~~	~~
2010	50,864	-5.83%	20,929	-11.46%	71,793	-7.55%
2011	55,928	9.96%	20,650	-1.33%	76,578	7%
2012	58,705	4.97%	20,654	0.02%	79,359	4%
2013	**60,446**	**2.97%**	**20,873**	**1.06%**	**81,319**	**2%**
2014	61,957	2.50%	21,082	1.00%	83,039	2.11%
2015	63,506	2.50%	21,293	1.00%	84,799	2.12%
2016	65,094	2.50%	21,463	0.80%	86,557	2.07%
2017	66,721	2.50%	21,592	0.60%	88,313	2.03%
2018	68,389	2.50%	21,678	0.40%	90,067	1.99%
2019	70,099	2.50%	21,732	0.25%	91,831	1.96%
2020	71,501	2.00%	21,754	0.10%	93,255	1.55%
2021	72,931	2.00%	21,776	0.10%	94,707	1.56%
2022	74,389	2.00%	21,797	0.10%	96,187	1.56%
2023	75,133	1.00%	21,819	0.10%	96,953	0.80%
2024	75,885	1.00%	21,841	0.10%	97,726	0.80%
2025	76,644	1.00%	21,863	0.10%	98,506	0.80%
2026	77,410	1.00%	21,885	0.10%	99,295	0.80%
2027	78,184	1.00%	21,894	0.04%	100,078	0.79%
2028	78,966	1.00%	21,902	0.04%	100,868	0.79%
2029	79,756	1.00%	21,911	0.04%	101,667	0.79%
2030	80,553	1.00%	21,920	0.04%	102,473	0.79%

**Actual totals were determined at the end of each year, except where Census years are identified.*

Census numbers are April 1st of the year identified.

** Census 2000 total is a final count. City estimate for 4/1/2000 was 26,060.

**** The City believes that the 2010 Census undercounted dwelling units by approximately 2,000 dwelling units.*

Prepared by Cedar Park Planning Department

1/24/2014

Total Acres in City	**15,402.0712**
Sq. Miles	**24.0657**
Total Acres in ETJ	**5,981.0898**
Sq. Miles	**9.3455**
Total Acres in City and ETJ	**21,383.1610**
Sq. Miles	**33.4112**

City of Cedar Park Service Area
within Travis County (not including WTC MUD No. 1)
Population Estimates & Projections

Year	City Population	City % Growth	ETJ Population	ETJ % Growth	Total Service Area Population	Total Service Area % Growth
2010	2,208		6,740		8,948	
2011	2,274		6,743		9,017	
2012	2,342		6,746		9,088	
2013	2,412	3.0%	6,747	0.02%	9,160	0.79%
2014	2,473	2.5%	6,750	0.04%	9,223	0.69%
2015	**2,522**	**2.0%**	**6,753**	**0.04%**	**9,275**	**0.57%**
2016	2,572	2.0%	6,755	0.04%	9,328	0.57%
2017	2,624	2.0%	6,758	0.04%	9,382	0.58%
2018	2,676	2.0%	6,761	0.04%	9,437	0.59%
2019	2,730	2.0%	6,764	0.04%	9,493	0.60%
2020	**2,785**	**2.0%**	**6,766**	**0.04%**	**9,551**	**0.60%**
2021	2,840	2.0%	6,769	0.04%	9,609	0.61%
2022	2,897	2.0%	6,772	0.04%	9,669	0.62%
2023	2,955	2.0%	6,774	0.04%	9,729	0.63%
2024	3,014	2.0%	6,777	0.04%	9,791	0.64%
2025	**3,074**	**2.0%**	**6,780**	**0.04%**	**9,854**	**0.64%**
2026	3,136	2.0%	6,783	0.04%	9,918	0.65%
2027	3,199	2.0%	6,785	0.04%	9,984	0.66%
2028	3,262	2.0%	6,788	0.04%	10,050	0.67%
2029	3,328	2.0%	6,791	0.04%	10,118	0.68%
2030	**3,394**	**2.0%**	**6,793**	**0.04%**	**10,188**	**0.68%**
2031	3,462	2.0%	6,796	0.04%	10,258	0.69%
2032	3,531	2.0%	6,799	0.04%	10,330	0.70%
2033	3,602	2.0%	6,802	0.04%	10,404	0.71%
2034	3,674	2.0%	6,804	0.04%	10,478	0.72%
2035	**3,748**	**2.0%**	**6,807**	**0.04%**	**10,555**	**0.73%**
2036	3,823	2.0%	6,810	0.04%	10,632	0.74%
2037	3,899	2.0%	6,812	0.04%	10,711	0.74%
2038	3,977	2.0%	6,815	0.04%	10,792	0.75%
2039	4,057	2.0%	6,818	0.04%	10,874	0.76%
2040	**4,138**	**2.0%**	**6,821**	**0.04%**	**10,958**	**0.77%**

NOTE: Future annexations would change population projections.

CEDAR PARK

Single Family Lot Inventory & Population Estimates

	Total SF Lots Final Platted	Williamson County - SF Lots	Travis County - SF Lots	Williamson County Projected Population	Travis County Projected Population	Total Projected Population
Retail Service Areas in ETJ						
Bella Vista	304		304		912	**912**
Cross Creek	190		190		570	**570**
Cypress Canyon	377		377		1,131	**1,131**
Reserve at Twin Creeks	247		247		741	**741**
Twin Creeks Country Club	651		651		1,953	**1,953**
Ranch at Cypress Creek	982	861	121	2,583	363	**2,946**
Ranch at Deer Creek (ETJ)	189		189		567	**567**
Ranch at Deer Creek (City)	431		431		1,293	**1,293**
Shenandoah	407	407		1,221		**1,221**
TOTALS:	**3,778**	**1,268**	**2,510**	**3,804**	**7,530**	**11,334**
Wholesale Service Areas						
WTC MUD #1						
Anderson Mill West	1,347	923	424	2,769	1,272	**4,041**
Hunter's Glenn	176	176		528		**528**
Lakeline Oaks	400	400		1,200		**1,200**
WTC MUD #1 TOTALS:	**1,923**	**1,499**	**424**	**4,497**	**1,272**	**5,769**
Block House MUD	2,139	2,139		6,417		**6,417**
Indian Springs MUD	54		54		162	**162**
TOTALS:	**4,116**	**3,638**	**478**	**10,914**	**1,434**	**12,348**
COMBINED TOTALS:	**7,894**	**4,906**	**2,988**	**14,718**	**8,964**	**23,682**

City of Cedar Park

Cedar Park City Limit and Water Service Boundaries

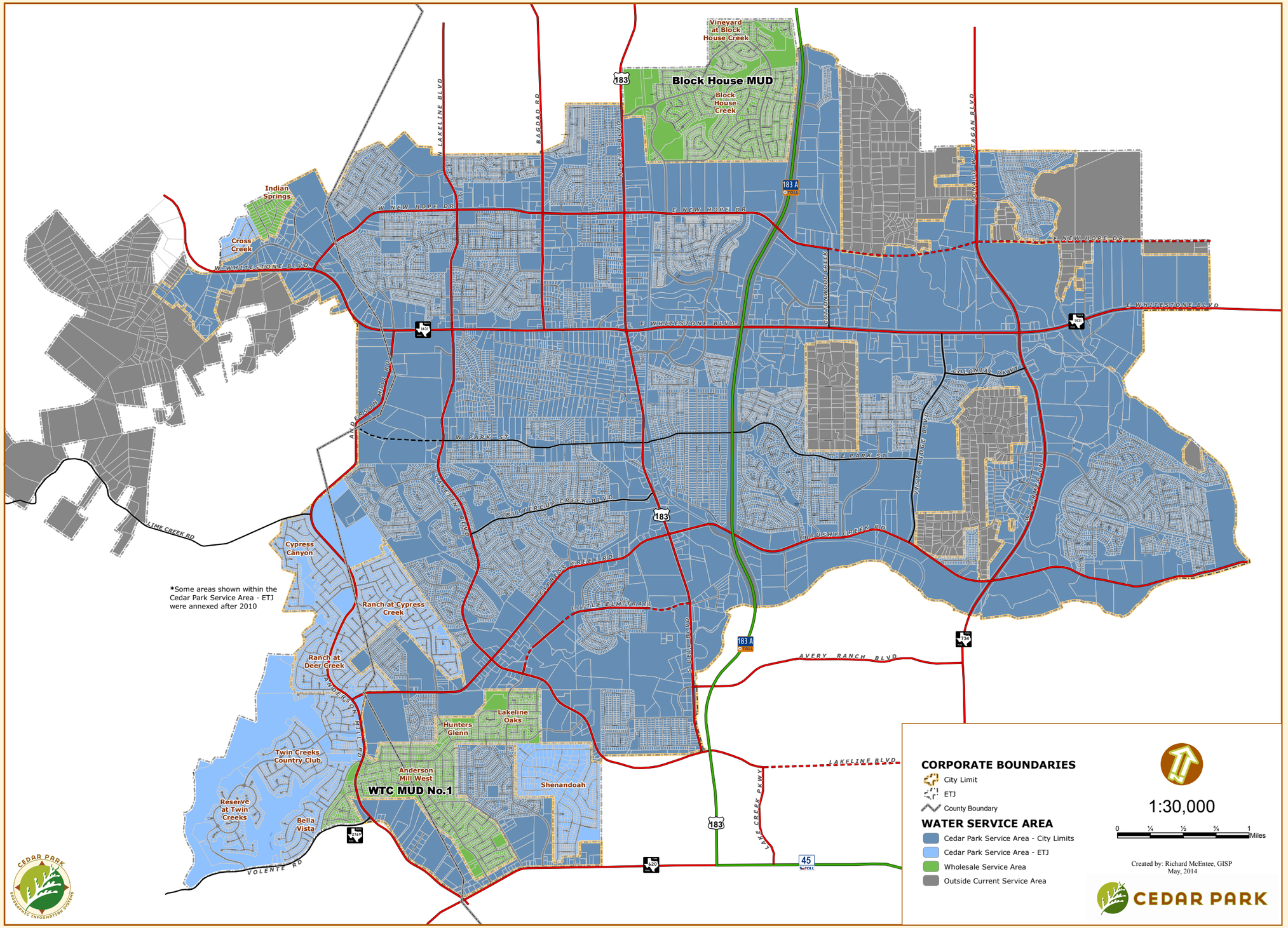

Exhibit 2

Documentation from Williamson-Travis County MUD#1 and Blockhouse MUD for Build-out Conditions

4401 West Gate Blvd., Suite 400, Austin, TX 78745-1469 **hdrinc.com**
P 512.912.5100

From: Kenneth Wheeler <Kenneth.Wheeler@cedarparktexas.gov>
Sent: Wednesday, July 16, 2014 10:27 AM
To: Newell, Peter
Subject: FW: Region G Water Population - WTC MUD No. 1

Peter,

Below is correspondence from Kristi Hester, the General Manager for WTC MUD No. 1, regarding the build out status for the MUD. Let me know if this is sufficient for the TWDB memo.

I am still waiting to hear back from Block House.

Kenneth Wheeler, P.E.
Assistant Director of Utilities
City of Cedar Park
2401 Brushy Creek Loop
Cedar Park, TX 78613
512-401-5584

From: Hester, Kristi [mailto:Kristi.Hester@STServices.com]
Sent: Wednesday, July 16, 2014 10:11 AM
To: Kenneth Wheeler
Cc: Stathos, Becky
Subject: RE: Region G Water Population - WTC MUD No. 1

Kenneth,

WTCMUD 1 is fully built out with a total of 1914 residential connections and 25 commercial connections. I'm assuming that the population calculation is based on 3.5 per household if so WTCMUD1 total population of 6699. Please let me know if you need any additional information to complete this request.

Thanks

Kristi Hester
Sr. Area Manager

Kristi.Hester@STServices.com
(Please note my new e-mail address)

Severn Trent Services
14050 Summit Drive, Suite 113-A
Austin, TX 78728
M: 512-844-1041
O: 512-246-0498

www.severntrentservices.com

From: Kenneth Wheeler <Kenneth.Wheeler@cedarparktexas.gov>
Sent: Wednesday, July 16, 2014 11:31 AM
To: Newell, Peter
Subject: FW: Region G Water Population - Block House MUD

Peter,

Here's the correspondence from Gary Spoonts, the General Manager for Block House.

Kenneth Wheeler, P.E.
Assistant Director of Utilities
City of Cedar Park
2401 Brushy Creek Loop
Cedar Park, TX 78613
512-401-5584

From: Gary Spoonts [mailto:GSpoonts@crossroadsus.com]
Sent: Wednesday, July 16, 2014 11:28 AM
To: Kenneth Wheeler
Subject: RE: Region G Water Population - Block House MUD

Kenneth, Block House MUd has one or two lots left . For purposes of this report the district is fully built out . There is a commercial tract at the entrance that has remained dormant for 25 years so nothing is assumed there .

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Appendix K
Water Management Strategies from Other Regions for Brazos G

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Region C

Table K-1 Summary of out of region strategies adapted from IPP Table 5.D149, 5D.355, 5C.10, & 5C.11 in 2016 Region C Water Plan

Water User Group	Strategy	1st Year	Quantity** (acft/Yr)	Capital Costs	Unit Costs ($/1000 gal)		Table for Detail
					With Debt Service	After Debt Service	
Bethesda WSC *	Conservation	2020	117	$139,100	$3.21	$1.00	Q-10
	Additional Fort Worth	2020	3,496	$0	$1.96	$1.96	None
	Supply from Arlington	2020	2,614	$0	$2.50	$2.50	None
	Connection to Arlington	*2020*	*2,614*	$18,698,000	$2.16	$0.32	Q-184
Burleson*	Conservation	2020	55	$37,638	$0.88	$0.00	Q-10
	Additional Fort Worth (TRWD)	2020	10,244	$0	$1.96	$1.96	None
	Increase delivery infrastructure from Fort Worth	*2040*	*5,541*	$21,780,000	$1.23	$0.22	Q-186
Crowley	Conservation	2020	113	$342,055	$4.39	$0.00	Q-10
	Additional Fort Worth (TRWD)	2020	3,588	$0	$1.96	$1.96	None
	Increase delivery infrastructure from Fort Worth	*2030*	*3,028*	$11,558,000	$1.21	$1.21	Q-187
Johnson County SUD	Conservation	2020	10	$4,470	$0.57	$0.00	Q-10
	Additional Mansfield (TRWD)	2020	6,229	$0	$2.50	$2.50	None
	Supply from Grand Prairie	2020	6,726	$0	$2.50	$2.50	None
	Connect to Grand Prairie	*2020*	*6,726*	$86,140,000	$3.83	$0.60	Q-188
Venus	Conservation	2020	2	$740	$1.13	$0.00	Q-10
	Additional Midlothian	2020	602	$0	$2.50	$2.50	None
Fort Worth	Conservation (Retail)	2020	16,721	$80,176,073	$4.11	$0.48	Q-10
	Alliance Direct Reuse	2020	2,800	$16,083,000	$0.49	$0.06	Q-68
	Future Direct Reuse	2020	2,688	$129,976,000	$4.18	$0.82	Q-67
	Purchase from TRWD	2030	216,971	$0	$0.97	$0.97	None
Files Valley WSC	Conservation	2020	7	$2,010	$0.52	$0.00	Q-10
	Connect to Waxahachie (TRWD through TRA)	2030	72	See Waxahachie in Section 5.2			

Notes: Water User Groups marked with an * extend into more than one county.

** Quantities listed are for the WUG only. They do not include the WUG's customers.

Bethesda Water Supply Corporation (Region C RWP)

Bethesda WSC serves an estimated 29,000 people in southern Tarrant County and northern Johnson County. (Johnson County is in the Brazos G water planning region.)

Water management strategies for Bethesda WSC include:

- Conservation implemented or enhanced by 2020 with a maximum savings of 117 acft/yr at a unit cost of $3.21/1,000 gallons.
- Additional water from Fort Worth beginning in 2020 utilizing existing infrastructure with a unit cost of $1.96/1,000 gallons for water purchase. Increased contractual amounts vary over the planning period up to 3,496 acft/yr.
- Connection to and purchase of water from the City of Arlington (which gets raw water from TRWD). Increased contractual amounts vary over the planning period up to 2,614 acft/yr at a unit cost of water $2.50/1,000 gallons. The connection to Arlington will involve a capital cost of $18,698,000 adding $2.16/1,000 gallons to the unit cost of water from Arlington.

Burleson (Region C RWP)

Burleson is a city of about 40,000 people located in southern Tarrant County and northern Johnson County. (Johnson County is in the Brazos G water planning region.)

Water management strategies for Burleson Include:

- Conservation implemented or enhanced by 2020 with a maximum savings of 55 acft/yr at a unit cost of $.88/1,000 gallons.
- Increased delivery Infrastructure and purchase of water from the City of Fort Worth. Increased contractual amounts vary over the planning period up to 10,244 acft/yr at a unit cost of water $1.96/1,000 gallons. The infrastructure expansion to Fort Worth will involve a capital cost of $21,780,000 adding $1.23/1,000 gallons to the unit cost of water from Fort Worth.

Crowley (Region C RWP)

Crowley is a city of about 14,000 people located in southern Tarrant County.

Water management strategies for Crowley Include:

- Conservation implemented or enhanced by 2020 with a maximum savings of 113 acft/yr at a unit cost of $4.39/1,000 gallons.
- Increased delivery Infrastructure and purchase of water from the City of Fort Worth. Increased contractual amounts vary over the planning period up to 3,588 acft/yr at a unit cost of water $1.96/1,000 gallons. The infrastructure expansion to Fort Worth will involve a capital cost of $11,558,000 adding $1.21/1,000 gallons to the unit cost of water from Fort Worth.

Venus (Region C RWP)

Venus is a city of about 2,960 people in eastern Johnson County and western Ellis County. Most of the population is in Johnson County which is in Region G.

Water management strategies for Venus include:

- Conservation implemented or enhanced by 2020 with a maximum savings of 2 acft/yr at a unit cost of $1.13/1,000 gallons.
- Additional water from Midlothian beginning in 2020 utilizing existing infrastructure with a unit cost of $2.50/1,000 gallons for water purchase. Increased contractual amounts vary over the planning period up to 602 acft/yr.

City of Fort Worth (Region C RWP)

The City of Fort Worth obtains raw water from the Tarrant Regional Water District (TRWD) and treats and distributes treated water to about 30 other water user groups in Tarrant County and surrounding counties.

Water management strategies for the City of Fort Worth include:

- Conservation implemented or enhanced by 2020 with a maximum savings of 16,721 acft/yr at a unit cost of $4.11/1,000 gallons.
- Alliance Corridor Direct Reuse: This project would involve a partnership between the City of Fort Worth, Trinity River Authority and Hillwood Corporation to serve developments in the Alliance Airport area. It would use effluent supplied from the Trinity River Authority's Denton Creek Regional Wastewater System. The project is projected to provide up to 2,688 acft/yr of supply at a unit cost of $0.49/1,000 gallons.
- Fort Worth Future Direct Reuse: Fort Worth plans to further expand its direct reuse system by constructing additional conveyance and/or treatment facilities in other areas of the City. This project would provide up to 2,688 acft/yr at a unit cost of $4.18/1,000 gallons
- Additional water from TRWD beginning in 2030 utilizing existing infrastructure with a unit cost of $0.97/1,000 gallons for water purchase. Increased contractual amounts vary over the planning period up to 216,971 acft/yr.

Files Valley Water Supply Corporation (Region C RWP)

Files Valley WSC serves about 3,000 people in western Ellis and eastern Hill Counties. Files Valley provides water to residents in its service area as well as residents of Milford.

Water management strategies for Files Valley WSC include:

- Conservation implemented or enhanced by 2020 with a maximum savings of 7 acft/yr at a unit cost of $0.52/1,000 gallons.
- Water purchase from Waxahachie will be made possible by 2030 as part of the Ellis County Water Supply project. The Ellis County Water Supply Corporation will include a joint delivery system to multiple wholesale customers in Southern Ellis County. Files Valley expects to receive up to 72 acft of supply from the project by 2070.

Region F

Lake Coleman and Oak Creek Reservoir Subordination (\ Region F RWP)

5C.1 Subordination of Downstream Senior Water Rights

The TWDB requires the use of the TCEQ Water Availability Models (WAM) for regional water planning. Most of the water rights in Region F are in the Colorado River Basin. Chapter 3 discusses the use of the WAM models for water supply estimates and the impacts to the available supplies in the upper Colorado River Basin. The Colorado WAM assumes that senior lower basin water rights would continuously make priority calls on Region F water rights. That assumption is not consistent with the historical operation of the Colorado River Basin and likely underestimates the amount surface water supplies available in Region F.

Although the Colorado WAM does not give an accurate assessment of water supplies based on the way the basin has historically been operated, TWDB requires the regional water planning groups to use the WAM to determine supplies. Using WAM supplies causes several sources in Region F have no supply by definition, even though in practice their supply may be greater than indicated by the WAM. According to the WAM, the cities of Ballinger, Brady, Coleman, Junction, and Winters and their customers have no water supply. The Morgan Creek power plant has no supply to generate power. The cities of Big Spring, Bronte, Coahoma, Midland, Miles, Odessa, Robert Lee, San Angelo, Snyder and Stanton do not have sufficient water to meet current demands. Overall, the Colorado WAM supplies show shortages that are the result of modeling assumptions and regional water planning rules and are inconsistent with the historical operation of the Colorado Basin. This would indicate Region F needs to immediately spend significant funds on new water supplies, when in reality the magnitude of the indicated water shortages are not justified. Conversely, the WAM model shows more water in Region K (Lower Colorado Basin) than may actually be available.

One way for the planning process to reserve water supplies for these communities and their customers is to assume that downstream senior water rights holders subordinate their priority rights to major Region F municipal water rights, a strategy referred to as subordination in this plan. This assumption has been implanted to evaluate water supplies in previous water plans.

Because the subordination strategy impacts water supplies outside of Region F, coordination with the Lower Colorado Regional Water Planning Group (Region K) was conducted. For the development of the 2006 regional water plans, a joint modeling effort was conducted with Region K and an agreement was reached for planning purposes. In subsequent planning cycles, Region K developed its own version of this subordination strategy, called the “cutoff model” that modified the priority dates for all water rights above Lakes Ivie and Brownwood. Region F has adopted the premise of the Region K’s cutoff model with only minor variations for purposes of the subordination strategy in this plan. The Region F model makes two major assumptions 1) senior water rights in the lower Colorado basin (Region K) do not make priority calls on the upper basin, and 2) these upper basin water rights do not make calls on each other. **Error! Reference source not found.** shows the divide between the upper and lower basin and depict which reservoirs were included in the subordination modeling. For this Regional Water Plan, the hydrology developed by TCEQ through December 2013 was used for the subordination modeling.

The Region F model differs from the Region K model by including the City of Junction’s run-of-river rights in the upper basin. Other refinements to the subordination modeling include modifications for the

Pecan Bayou. As discussed above, the assumption that upper basin water rights do not make calls on each other is consistent with general operations in the basin, but it may not be appropriate for determining water supplies during drought in the Pecan Bayou watershed. To better reflect reality, an assumption was made that the upstream reservoirs hold inflows that would have been passed to Lake Brownwood under strict priority analysis if Lake Brownwood is above 50 percent of the conservation capacity. This scenario provides additional supplies in the upper watershed while allowing Lake Brownwood to make priority calls at certain times during drought (i.e. when Lake Brownwood is below 50 percent of the conservation pool).

Two reservoirs providing water to the Brazos G planning region were included in the subordination analysis. Lake Clyde is located in Callahan County and provides water to the City of Clyde. Oak Creek Reservoir is located in Region F and supplies a small amount of water to water user groups within Regions F and G. Oak Creek Reservoir is owned and operated by the City of Sweetwater, which is in the Brazos G Region. Both Clyde and Sweetwater have other sources of water in addition to the supplies in the Colorado Basin.

The subordination strategy modeling was conducted for regional water planning purposes only. By adopting this strategy, the Region F RWPG does not imply that the water rights holders have agreed to relinquish the ability to make priority calls on junior water rights. The Region F RWPG does not have the authority to create or enforce subordination agreements. Such agreements must be developed by the water rights holders themselves. Region F recommends and supports ongoing discussions on water rights issues in the Colorado Basin that may eventually lead to formal agreements that reserve water for Region F water rights.

Over 56,000 acre-feet of additional supply is available through the subordination strategy in 2020 and over 52,000 acre-feet in 2070. **Table 5C- 1** compares the 2020 and 2070 Region F water supply sources with and without subordination.

Table 5C- 1
Region F Surface Water Supplies with and without Subordination

Reservoir	2020 Supply WAM Run 3	2020 Supply Subordination	2070 Supply WAM Run 3	2070 Supply Subordination
Lake Colorado City	0	2,240	0	1,940
Champion Creek Reservoir	0	1,480	0	1,380
Colorado City/Champion System	*0*	*3,720*	*0*	*3,320*
Oak Creek Reservoir	0	1,493	0	960
Lake Ballinger	0	779	0	750
Lake Winters	0	191	0	170
Twin Buttes Reservoir/Lake Nasworthy	0	2,797	0	2,342
O.C. Fisher Reservoir	0	1,538	0	1,030
San Angelo System	*0*	*4,335*	*0*	*3,372*
Hords Creek Reservoir	0	358	0	300
Lake Coleman	0	2,915	0	2,740
Coleman System	*0*	*3,273*	*0*	*3,040*
Lake Clyde	0	150		150
Brady Creek Reservoir	0	1,892	0	1,700
Lake Thomas	0	4,864	0	4,779
Spence Reservoir (CRMWD system)	0	23,116	0	22,982
Spence Reservoir (Non-system)	0	1,475	0	1,467
Spence Reservoir Total	*0*	*24,591*	*0*	*24,449*
Ivie Reservoir (CRMWD system)	18,152	17,242	15,583	14,681
Ivie Reservoir (Non-system)	17,878	16,981	15,347	14,459
Ivie Reservoir Total	*36,030*	*34,223*	*30,930*	*29,140*
CRMWD Total (Thomas, Spence & Ivie)	*36,030*	*63,678*	*30,930*	*58,368*
CRMWD Diverted Water System(Brackish)	*0*	*5,760*	*0*	*5,760*
Lake Brownwood	18,760	25,741	*18,060*	23,600
City of Junction	0	412	0	412
Mountain Creek	0	80	0	80
TOTAL	***54,790***	***111,092***	***48,990***	***101,270***
Increase with Subordination	***56,302***		***52,280***	

A list of the water user groups that could potentially benefit from subordination and the amount assumed for planning are shown in **Table 5C- 2**. The reduction in supplies shown for Midland is associated with a reduced safe yield of Lake Ivie with the subordination assumptions. These reductions also impact the subordination supplies to San Angelo. The contracts for water for both of these cities is based on a percentage of the safe yield of Lake Ivie.

Table 5C- 2
Subordination Supplies by WUG

WUG Name	Additional Supplies Made Available through the Subordination Strategy					
	2020	2030	2040	2050	2060	2070
Bronte	176	176	176	176	176	176
Robert Lee	224	224	224	224	224	224
Coke County Mining	38	36	34	32	30	28
Coleman	2,102	2,061	2,024	1,985	1,938	1,891
Coleman County SUD	214	211	206	202	202	203
Coleman County Irrigation	743	743	743	743	743	743
Odessa	11,671	7,523	10,146	13,053	16,214	19,491
Ector County Irrigation	189	110	134	157	179	196
Big Spring	3,677	2,190	2,682	3,115	3,523	3,885
Howard County Mining	1,000	1,000	1,000	982	320	43
Junction	412	412	412	412	412	412
Stanton	253	160	202	248	291	331
Brady	1,892	1,854	1,816	1,778	1,740	1,700
Millersview-Doole WSC	782	665	701	236	267	294
Midland	8,527	(299)	(298)	(297)	(297)	(296)
Mitchell County Steam Electric Power	1,480	1,460	1,440	1,420	1,400	1,380
Ballinger	752	675	693	563	558	554
Miles	112	124	121	119	119	119
Winters	186	182	178	174	170	165
Runnels County Manufacturing	11	10	10	11	11	11
Snyder	1,268	807	1,030	1,280	1,544	1,812
San Angelo	4,036	3,843	3,651	3,459	3,266	3,076
Tom Green County Manufacturing (Sales from San Angelo)	467	445	438	420	403	386
BCWID (non-allocated)	6,981	6,693	6,405	6,117	5,829	5,540
CRMWD (non-allocated)	4,949	20,257	16,740	12,987	9,647	5,865
Oak Creek (non-allocated)	104	104	104	104	104	104

[1]Due to assumptions concerning the priority date of Lake Ivie in the TCEQ WAM and the subordination model, Lake Ivie has less yield under subordination since it must pass water to other Region F water right holders. Thus, in certain cases, the yield from the subordination strategy is negative.

The reliability of this strategy is considered to be medium based on the uncertainty of implementing this strategy. The subordination strategy defined for the Region F Water Plan is for planning purposes. If an entity chooses to enter into a subordination agreement with a senior downstream water right holder, the details of the agreement (including costs, if any) will be between the participating parties. Therefore strategy costs will not be determined for the subordination strategy. For planning purposes, capital and annual costs for the subordination strategy are assumed to be $0.

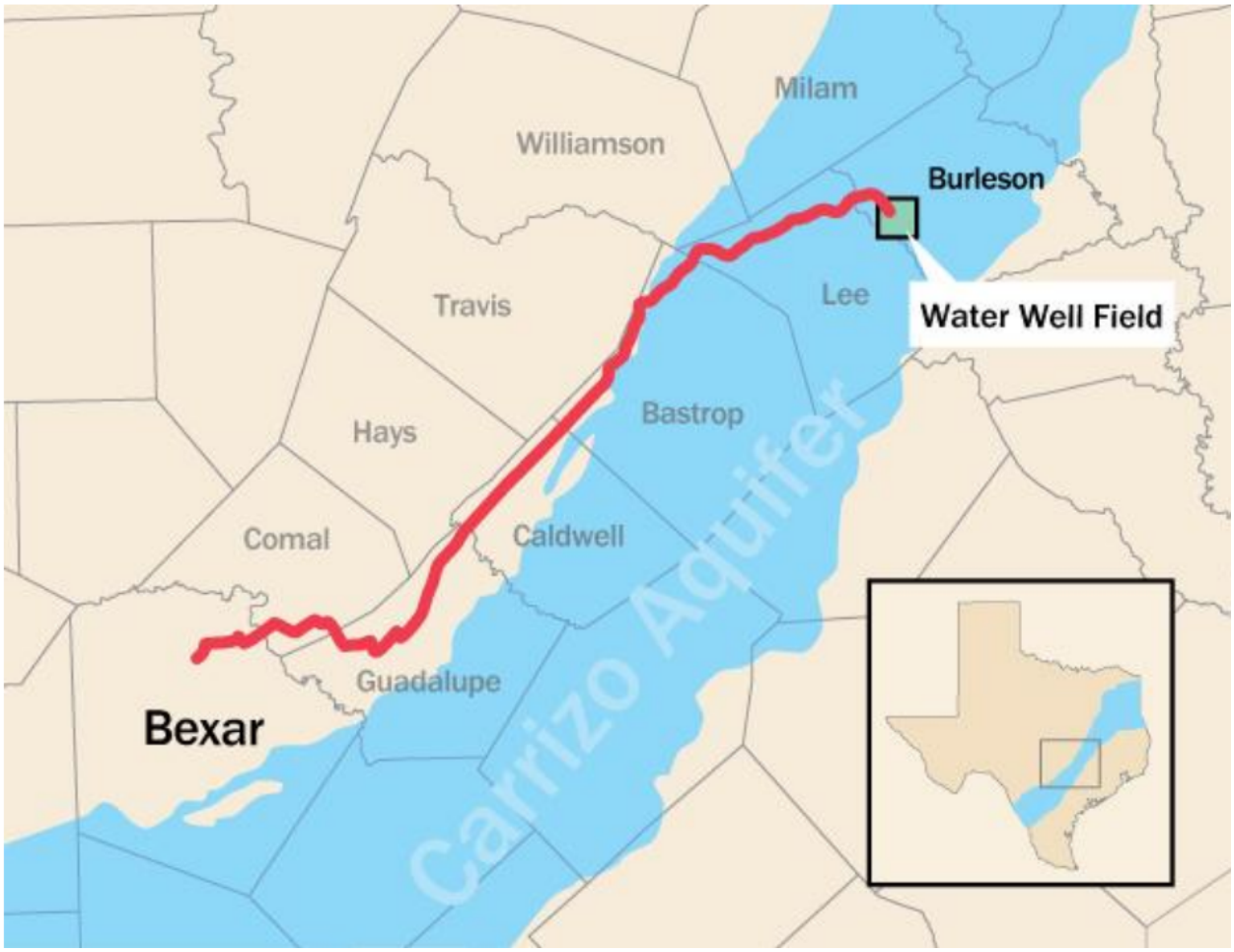
Region L

SAWS Vista Ridge Project (Region L RWP)

DESCRIPTION OF WATER MANAGEMENT STRATEGY

The San Antonio Water System (SAWS) has contracted with Vista Ridge Consortium for up to 50,000 acft/yr of groundwater supply from Burleson County, Texas. Vista Ridge holds permits from the Post Oak Savannah Groundwater Conservation District (GCD) for up to 70,000 acft/yr in the Carrizo–Wilcox Aquifer in Burleson County. The project includes a well field, collection system, treatment, and 143 miles of 54-inch and 60-inch transmission facilities, and will deliver water to northern Bexar County for eventual delivery the SAWS distribution system. The table below shows the well field location and the proposed pipeline route. In addition, SAWS will be upgrading their integration facilities to accommodate the new water. Costs associated with this integration is not included in this water management strategy, but information can be found in Facilities Expansions.

VISTA RIDGE PROJECT LOCATION



SAWS VISTA RIDGE PROJECT COST ESTIMATE – MAG-LIMITED

Item	*Estimated Costs for Facilities*
Intake Pump Stations (32.8 MGD)	$7,242,000
Transmission Pipeline (48 in dia., 143 miles)	$264,379,000
Transmission Pump Station(s) & Storage Tank(s)	$23,328,000
Well Fields (Wells, Pumps, and Piping)	$34,838,000
Water Treatment Plant (32.8 MGD)	$49,308,000
Integration, Relocations, & Other	$10,468,000
TOTAL COST OF FACILITIES	**$389,563,000**
Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes & 35% for all other facilities)	$123,128,000
Environmental & Archaeology Studies and Mitigation	$3,990,000
Land Acquisition and Surveying (1772 acres)	$9,257,000
Interest During Construction (4% for 2.5 years with a 1% ROI)	$46,020,000
TOTAL COST OF PROJECT	**$571,958,000**
ANNUAL COST	
Debt Service (5.5 percent, 20 years)	$47,861,000
Operation and Maintenance	
Intake, Pipeline, Pump Station (1% of Cost of Facilities)	$3,686,000
Water Treatment Plant (2.5% of Cost of Facilities)	$9,862,000
Pumping Energy Costs (110000740 kW-hr @ 0.09 $/kW-hr)	$9,900,000
Purchase of Water (34894 acft/yr @ 125 $/acft)	$4,658,000
TOTAL ANNUAL COST	**$75,967,000**
Available Project Yield (acft/yr), based on a Peaking Factor of 1	34,894
Annual Cost of Water ($ per acft)	$2,177
Annual Cost of Water ($ per 1,000 gallons)	$6.68

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Appendix L
TWDB Required Reports from DB17

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List of Tables included:

Number	Table 2 Guidelines Name	Summary of Report Content	Included in Hard Copy Appendix
1	Population Projections*	population projections by WUG, county, and river basin.	X
2	Water Demands*	population and water demand projections by WWP and WUG, county, and river basin to include separate information on water supply commitments to other entities.	X
2	Population Projection and Water Demand – Summary*	population and water demand projections by WUG category.	
3	Water Availability*	water availability by source and location.	X
4	Existing Water Supplies*	existing water supplies by WUG, county, and river basin.	X
5	Existing Water Supplies – Summary*	existing water supplies by WUG category by decade.	
6	Categories of water use for WWPs considering counties and basins*	WWP water demands by county and basin.	
7	Identified Water Needs/Surpluses*	identified water needs and or surpluses by WUG and WWP, county, and river basin.	X
8	Identified Water Need – Summary*	identified water needs by WUG category by decade.	
9	Second-Tier Identified Water Need	identified water needs by: WWP; and WUG, county, and river basin after implementation of conservation and direct reuse strategies.	X
10	Second-Tier Identified Water Need - Summary	identified water needs by WUG category and decade after implementation of conservation and direct reuse strategies.	X
11	Source Water Balance report	presenting total water use from each source. Must show no over allocation of source availability (except for those sources that are thereby revealed in IPPs as potentially overallocated and thereby creating potential interregional conflicts).	X
12	Unmet Needs	report presenting all unmet needs by WUG.	X
13	Unmet Needs-Summary	presenting all unmet needs by category and decade including a list enumerating each municipal WUG, if any, with unmet needs.	X

14	Recommended Water Management Strategy WUG	presenting a table with all recommended water management strategies for each WUG; including the strategy names, total yield of the WMS for all decades and total capital costs.	X
15	Recommended Water Management Strategy WWP	presenting a table with all recommended water management strategies to be implemented by each WWP; including the strategy names, total yield of the WMS for all decades and total capital costs.	
16	Recommended Water Management Strategy - Roll-Up Summary	presenting a rolled-up table with all recommended water management strategies for each WUG; including the strategy names, total yield of the WMS for all decades and total capital costs; Similar to Appx A.2 of the 2012 State Water Plan.	
17	Recommended Water Management Strategy User Summary	presenting project type, water source, Seller, and WUG users for each recommended WMS.	
18	Alternative Water Management Strategy - Summary	presenting a table with all included alternative water management strategies presenting the same data as in the recommended water management strategy summary report.	X
19	Management Supply Factor	for each WUG and WWP as described in Section 5.2 of this document.	X
20	Recommended Water Management Strategy – Project Water Association (WMS-tier analysis)	WMS-tier analysis) report presenting how WMSs relate to each other.	
21	Potentially Impacted Population	presenting populations that could benefit from each recommended WMS.	
22	Summary of WMS Users by WMS	presenting the WMS Projects and the associated Sources and WUGs;	
23	Summary of WMS Users by Source	presenting Sources used by WMSs and associated WUGs by source.	
24	Summary of WMSs Implementation	based on data collected by RWPGs.	

Water User Group (WUG) Category Summary

REGION G	2020	2030	2040	2050	2060	2070
MUNICIPAL						
POPULATION	2,052,854	2,373,753	2,713,083	3,093,516	3,468,428	3,856,114
DEMANDS (acre-feet per year)	362,711	407,517	455,417	511,562	569,831	630,472
EXISTING SUPPLIES (acre-feet per year)	475,109	473,037	469,939	462,157	459,100	456,266
NEEDS (acre-feet per year)*	(23,116)	(50,914)	(87,636)	(134,096)	(181,183)	(232,185)
COUNTY-OTHER						
POPULATION	318,210	346,943	383,924	401,028	449,769	494,928
DEMANDS (acre-feet per year)	40,383	43,281	47,866	49,815	56,767	63,357
EXISTING SUPPLIES (acre-feet per year)	40,169	40,031	40,057	40,170	40,676	40,914
NEEDS (acre-feet per year)*	(9,198)	(10,862)	(14,496)	(15,548)	(21,313)	(27,217)
MANUFACTURING						
DEMANDS (acre-feet per year)	21,848	24,554	27,270	29,687	32,223	34,977
EXISTING SUPPLIES (acre-feet per year)	26,247	28,795	30,077	31,270	32,494	33,940
NEEDS (acre-feet per year)*	(7,179)	(7,263)	(8,620)	(9,771)	(11,040)	(12,319)
MINING						
DEMANDS (acre-feet per year)	61,586	70,381	68,875	70,949	75,038	81,409
EXISTING SUPPLIES (acre-feet per year)	21,165	21,133	21,099	21,067	21,033	21,001
NEEDS (acre-feet per year)*	(41,731)	(50,127)	(50,494)	(53,675)	(57,802)	(64,121)
STEAM ELECTRIC POWER						
DEMANDS (acre-feet per year)	239,299	272,711	288,696	322,702	341,364	362,386
EXISTING SUPPLIES (acre-feet per year)	279,241	280,555	279,298	280,080	279,340	275,170
NEEDS (acre-feet per year)*	(70,834)	(88,264)	(99,300)	(128,694)	(144,204)	(162,658)
LIVESTOCK						
DEMANDS (acre-feet per year)	49,650	49,650	49,650	49,650	49,650	49,650
EXISTING SUPPLIES (acre-feet per year)	49,650	49,650	49,650	49,650	49,650	49,650
NEEDS (acre-feet per year)*	0	0	0	0	0	0
IRRIGATION						
DEMANDS (acre-feet per year)	292,091	284,321	276,847	268,840	262,305	256,044
EXISTING SUPPLIES (acre-feet per year)	215,562	209,152	202,681	202,413	205,381	204,856
NEEDS (acre-feet per year)*	(83,218)	(83,258)	(83,455)	(77,447)	(70,261)	(67,066)
REGION TOTALS						
POPULATION	2,371,064	2,720,696	3,097,007	3,494,544	3,918,197	4,351,042
DEMANDS (acre-feet per year)	1,067,568	1,152,415	1,214,621	1,303,205	1,387,178	1,478,295
EXISTING SUPPLIES (acre-feet per year)	1,107,143	1,102,353	1,092,801	1,086,807	1,087,674	1,081,797
NEEDS (acre-feet per year)*	(235,276)	(290,688)	(344,001)	(419,231)	(485,803)	(565,566)

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

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
BELL COUNTY						
BRAZOS BASIN						
439 WSC	7,584	8,435	9,318	10,292	11,369	12,559
ARMSTRONG WSC	2,283	2,416	2,561	2,710	2,856	3,000
BARTLETT	828	958	1,101	1,247	1,390	1,531
BELL-MILAM FALLS WSC	2,301	2,442	2,596	2,754	2,909	3,061
BELTON	21,841	25,287	29,041	32,897	36,680	40,404
CHISHOLM TRAIL SUD	2,971	3,440	3,951	4,476	4,990	5,497
DOG RIDGE WSC	3,145	3,642	4,182	4,737	5,282	5,818
EAST BELL WSC	3,641	4,240	4,893	5,563	6,221	6,868
ELM CREEK WSC	2,376	2,784	3,229	3,686	4,134	4,575
FORT HOOD	17,282	17,282	17,282	17,282	17,282	17,282
HARKER HEIGHTS	32,012	37,064	42,566	48,218	53,763	59,222
HOLLAND	1,138	1,154	1,171	1,189	1,206	1,223
JARRELL-SCHWERTNER WSC	1,369	1,584	1,820	2,061	2,298	2,531
KEMPNER WSC	2,004	2,320	2,664	3,018	3,365	3,707
KILLEEN	153,371	177,572	203,934	231,012	257,581	283,732
LITTLE RIVER-ACADEMY	2,231	2,488	2,768	3,056	3,338	3,616
MOFFAT WSC	4,101	4,263	4,440	4,621	4,799	4,974
MORGAN'S POINT RESORT	5,179	6,139	7,184	8,258	9,312	10,349
NOLANVILLE	6,061	7,774	9,640	11,557	13,438	15,289
PENDLETON WSC	2,075	2,174	2,283	2,395	2,504	2,612
ROGERS	1,305	1,388	1,478	1,570	1,661	1,750
SALADO WSC	5,453	5,950	6,491	7,047	7,592	8,129
TEMPLE	79,253	91,759	105,381	119,374	133,103	146,616
TROY	1,874	2,091	2,328	2,571	2,810	3,045
WEST BELL COUNTY WSC	5,112	5,456	5,456	5,456	5,456	5,456
COUNTY-OTHER	5,166	10,545	16,824	23,205	29,347	35,261
BRAZOS BASIN TOTAL POPULATION	**371,956**	**430,647**	**494,582**	**560,252**	**624,686**	**688,107**
BELL COUNTY TOTAL POPULATION	**371,956**	**430,647**	**494,582**	**560,252**	**624,686**	**688,107**
BOSQUE COUNTY						
BRAZOS BASIN						
CHILDRESS CREEK WSC	2,656	2,901	3,027	3,105	3,155	3,186
CLIFTON	3,838	4,192	4,374	4,488	4,560	4,604
CROSS COUNTRY WSC	736	803	838	860	874	882
MERIDIAN	1,664	1,818	1,897	1,946	1,978	1,997
VALLEY MILLS	1,327	1,449	1,512	1,551	1,576	1,591
WALNUT SPRINGS	922	1,007	1,051	1,078	1,095	1,106
COUNTY-OTHER	9,167	10,014	10,448	10,719	10,891	10,996
BRAZOS BASIN TOTAL POPULATION	**20,310**	**22,184**	**23,147**	**23,747**	**24,129**	**24,362**
BOSQUE COUNTY TOTAL POPULATION	**20,310**	**22,184**	**23,147**	**23,747**	**24,129**	**24,362**

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
BRAZOS COUNTY						
BRAZOS BASIN						
BRYAN	88,434	93,544	119,410	138,980	159,588	181,797
COLLEGE STATION	102,140	132,690	141,952	164,492	188,719	215,545
TEXAS A & M UNIVERSITY	11,851	12,000	12,000	12,000	12,000	12,000
WELLBORN SUD	9,309	10,667	12,073	13,793	15,636	17,668
WICKSON CREEK SUD	9,752	11,724	13,767	16,266	18,943	21,895
COUNTY-OTHER	6,168	4,040	3,795	4,363	5,249	6,624
BRAZOS BASIN TOTAL POPULATION	**227,654**	**264,665**	**302,997**	**349,894**	**400,135**	**455,529**
BRAZOS COUNTY TOTAL POPULATION	**227,654**	**264,665**	**302,997**	**349,894**	**400,135**	**455,529**
BURLESON COUNTY						
BRAZOS BASIN						
CALDWELL	4,896	5,060	5,275	5,312	5,412	5,498
DEANVILLE WSC	3,598	3,663	3,816	3,790	3,840	3,885
MILANO WSC	1,867	2,008	2,098	2,188	2,259	2,318
SNOOK	552	594	620	647	668	685
SOMERVILLE	1,485	1,597	1,669	1,741	1,797	1,844
SOUTHWEST MILAM WSC	800	860	899	938	968	993
COUNTY-OTHER	5,341	6,164	6,461	7,119	7,498	7,799
BRAZOS BASIN TOTAL POPULATION	**18,539**	**19,946**	**20,838**	**21,735**	**22,442**	**23,022**
BURLESON COUNTY TOTAL POPULATION	**18,539**	**19,946**	**20,838**	**21,735**	**22,442**	**23,022**
CALLAHAN COUNTY						
BRAZOS BASIN						
BAIRD	1,496	1,496	1,496	1,496	1,496	1,496
CLYDE	3,101	3,320	3,440	3,501	3,547	3,576
POTOSI WSC	75	81	84	85	86	87
COUNTY-OTHER	4,368	4,781	5,006	5,125	5,211	5,266
BRAZOS BASIN TOTAL POPULATION	**9,040**	**9,678**	**10,026**	**10,207**	**10,340**	**10,425**
COLORADO BASIN						
CLYDE	870	931	964	982	994	1,003
COLEMAN COUNTY SUD	161	172	178	182	184	185
CROSS PLAINS	1,051	1,125	1,165	1,186	1,201	1,211
COUNTY-OTHER	3,360	3,598	3,728	3,794	3,845	3,876
COLORADO BASIN TOTAL POPULATION	**5,442**	**5,826**	**6,035**	**6,144**	**6,224**	**6,275**
CALLAHAN COUNTY TOTAL POPULATION	**14,482**	**15,504**	**16,061**	**16,351**	**16,564**	**16,700**
COMANCHE COUNTY						
BRAZOS BASIN						
COMANCHE	4,499	4,678	4,799	4,956	5,090	5,217
DE LEON	2,331	2,424	2,486	2,568	2,637	2,703
COUNTY-OTHER	7,577	7,877	8,081	8,346	8,572	8,784
BRAZOS BASIN TOTAL POPULATION	**14,407**	**14,979**	**15,366**	**15,870**	**16,299**	**16,704**

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
COMANCHE COUNTY						
COLORADO BASIN						
COUNTY-OTHER	95	99	101	104	107	110
COLORADO BASIN TOTAL POPULATION	**95**	**99**	**101**	**104**	**107**	**110**
COMANCHE COUNTY TOTAL POPULATION	**14,502**	**15,078**	**15,467**	**15,974**	**16,406**	**16,814**
CORYELL COUNTY						
BRAZOS BASIN						
COPPERAS COVE	35,928	40,796	46,213	50,948	55,996	61,021
CORYELL CITY WATER SUPPLY DISTRICT	4,950	5,620	6,367	7,019	7,715	8,407
ELM CREEK WSC	408	464	525	579	637	694
FORT HOOD	16,051	16,429	16,429	16,429	16,429	16,429
GATESVILLE	17,990	20,427	23,139	25,510	28,038	30,554
KEMPNER WSC	3,097	3,517	3,984	4,392	4,827	5,260
MULTI-COUNTY WSC	2,874	3,264	3,697	4,076	4,480	4,882
COUNTY-OTHER	4,807	7,254	10,398	13,148	16,077	18,993
BRAZOS BASIN TOTAL POPULATION	**86,105**	**97,771**	**110,752**	**122,101**	**134,199**	**146,240**
CORYELL COUNTY TOTAL POPULATION	**86,105**	**97,771**	**110,752**	**122,101**	**134,199**	**146,240**
EASTLAND COUNTY						
BRAZOS BASIN						
CISCO	4,048	4,136	4,140	4,141	4,141	4,141
EASTLAND	4,111	4,201	4,205	4,205	4,205	4,205
GORMAN	1,125	1,149	1,150	1,150	1,150	1,150
RANGER	2,562	2,618	2,621	2,621	2,621	2,621
RISING STAR	867	886	887	887	887	887
STEPHENS REGIONAL SUD	126	129	129	129	129	129
COUNTY-OTHER	6,138	6,274	6,279	6,280	6,280	6,280
BRAZOS BASIN TOTAL POPULATION	**18,977**	**19,393**	**19,411**	**19,413**	**19,413**	**19,413**
COLORADO BASIN						
COUNTY-OTHER	312	319	319	319	319	319
COLORADO BASIN TOTAL POPULATION	**312**	**319**	**319**	**319**	**319**	**319**
EASTLAND COUNTY TOTAL POPULATION	**19,289**	**19,712**	**19,730**	**19,732**	**19,732**	**19,732**
ERATH COUNTY						
BRAZOS BASIN						
DUBLIN	4,063	4,525	4,915	5,287	5,639	5,964
STEPHENVILLE	19,041	21,205	23,033	24,777	26,425	27,948
COUNTY-OTHER	19,031	21,193	23,020	24,763	26,410	27,932
BRAZOS BASIN TOTAL POPULATION	**42,135**	**46,923**	**50,968**	**54,827**	**58,474**	**61,844**
ERATH COUNTY TOTAL POPULATION	**42,135**	**46,923**	**50,968**	**54,827**	**58,474**	**61,844**
FALLS COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	1,302	1,368	1,383	1,350	1,391	1,433

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
FALLS COUNTY						
BRAZOS BASIN						
BRUCEVILLE-EDDY	4	4	4	4	4	4
EAST BELL WSC	325	342	346	337	348	358
GOLINDA	448	471	476	465	479	493
LOTT	824	866	875	855	880	907
MARLIN	6,483	6,812	6,883	6,721	6,925	7,135
ROSEBUD	1,534	1,612	1,628	1,590	1,638	1,688
TRI-COUNTY SUD	2,856	3,001	3,032	2,961	3,051	3,143
WEST BRAZOS WSC	1,484	1,559	1,575	1,538	1,585	1,633
COUNTY-OTHER	4,153	4,362	4,408	4,305	4,435	4,570
BRAZOS BASIN TOTAL POPULATION	**19,413**	**20,397**	**20,610**	**20,126**	**20,736**	**21,364**
FALLS COUNTY TOTAL POPULATION	**19,413**	**20,397**	**20,610**	**20,126**	**20,736**	**21,364**
FISHER COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	845	845	845	845	845	845
ROBY	648	648	648	648	648	648
ROTAN	1,519	1,519	1,519	1,519	1,519	1,519
COUNTY-OTHER	989	989	989	989	989	989
BRAZOS BASIN TOTAL POPULATION	**4,001**	**4,001**	**4,001**	**4,001**	**4,001**	**4,001**
FISHER COUNTY TOTAL POPULATION	**4,001**	**4,001**	**4,001**	**4,001**	**4,001**	**4,001**
GRIMES COUNTY						
BRAZOS BASIN						
DOBBIN-PLANTERSVILLE WSC	560	648	716	787	846	897
G & W WSC	3,322	4,447	5,301	6,203	6,951	7,604
NAVASOTA	7,291	7,525	7,703	7,891	8,047	8,183
WICKSON CREEK SUD	2,965	3,201	3,379	3,568	3,725	3,862
COUNTY-OTHER	6,488	6,723	6,902	7,090	7,247	7,384
BRAZOS BASIN TOTAL POPULATION	**20,626**	**22,544**	**24,001**	**25,539**	**26,816**	**27,930**
SAN JACINTO BASIN						
DOBBIN-PLANTERSVILLE WSC	1,803	2,089	2,305	2,534	2,724	2,890
G & W WSC	438	586	698	817	916	1,002
COUNTY-OTHER	3,723	3,844	3,937	4,034	4,114	4,184
SAN JACINTO BASIN TOTAL POPULATION	**5,964**	**6,519**	**6,940**	**7,385**	**7,754**	**8,076**
TRINITY BASIN						
WICKSON CREEK SUD	403	435	460	486	507	526
COUNTY-OTHER	2,448	2,681	2,857	3,044	3,200	3,335
TRINITY BASIN TOTAL POPULATION	**2,851**	**3,116**	**3,317**	**3,530**	**3,707**	**3,861**
GRIMES COUNTY TOTAL POPULATION	**29,441**	**32,179**	**34,258**	**36,454**	**38,277**	**39,867**

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
HAMILTON COUNTY						
BRAZOS BASIN						
HAMILTON	3,114	3,172	3,172	3,172	3,172	3,172
HICO	1,385	1,404	1,404	1,404	1,404	1,404
MULTI-COUNTY WSC	676	696	696	696	696	696
COUNTY-OTHER	3,387	3,431	3,431	3,431	3,431	3,431
BRAZOS BASIN TOTAL POPULATION	**8,562**	**8,703**	**8,703**	**8,703**	**8,703**	**8,703**
HAMILTON COUNTY TOTAL POPULATION	**8,562**	**8,703**	**8,703**	**8,703**	**8,703**	**8,703**
HASKELL COUNTY						
BRAZOS BASIN						
HASKELL	3,330	3,364	3,382	3,415	3,466	3,540
RULE	638	644	648	654	664	678
STAMFORD	34	34	34	34	35	36
COUNTY-OTHER	1,911	1,931	1,940	1,961	1,988	2,031
BRAZOS BASIN TOTAL POPULATION	**5,913**	**5,973**	**6,004**	**6,064**	**6,153**	**6,285**
HASKELL COUNTY TOTAL POPULATION	**5,913**	**5,973**	**6,004**	**6,064**	**6,153**	**6,285**
HILL COUNTY						
BRAZOS BASIN						
BRANDON-IRENE WSC	416	443	461	480	495	506
FILES VALLEY WSC	784	835	869	905	932	953
HILL COUNTY WSC	3,141	3,344	3,482	3,624	3,731	3,818
HILLSBORO	9,117	9,707	10,106	10,518	10,830	11,083
ITASCA	1,654	1,762	1,833	1,908	1,965	2,011
JOHNSON COUNTY SUD	179	191	199	207	213	218
PARKER WSC	247	262	273	285	293	300
WHITE BLUFF COMMUNITY WS	2,022	2,153	2,241	2,333	2,402	2,458
WHITNEY	2,250	2,396	2,495	2,596	2,673	2,736
WOODROW-OSCEOLA WSC	4,205	4,477	4,661	4,851	4,995	5,112
COUNTY-OTHER	7,727	8,227	8,569	8,915	9,179	9,396
BRAZOS BASIN TOTAL POPULATION	**31,742**	**33,797**	**35,189**	**36,622**	**37,708**	**38,591**
TRINITY BASIN						
BRANDON-IRENE WSC	1,521	1,619	1,686	1,754	1,806	1,848
FILES VALLEY WSC	1,857	1,977	2,058	2,142	2,205	2,257
HUBBARD	1,535	1,634	1,701	1,770	1,823	1,866
ITASCA	119	126	132	137	141	144
JOHNSON COUNTY SUD	39	41	43	45	46	47
PARKER WSC	50	54	56	58	60	61
COUNTY-OTHER	965	1,029	1,070	1,115	1,148	1,175
TRINITY BASIN TOTAL POPULATION	**6,086**	**6,480**	**6,746**	**7,021**	**7,229**	**7,398**
HILL COUNTY TOTAL POPULATION	**37,828**	**40,277**	**41,935**	**43,643**	**44,937**	**45,989**

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
HOOD COUNTY						
BRAZOS BASIN						
ACTON MUD	19,725	31,885	39,831	43,891	48,381	53,347
CRESSON	282	389	465	530	580	619
GRANBURY	10,249	12,441	14,012	15,365	16,404	17,200
OAK TRAIL SHORES SUBDIVISION	3,113	3,175	3,219	3,257	3,286	3,308
TOLAR	858	1,029	1,152	1,257	1,338	1,400
COUNTY-OTHER	26,979	21,998	19,242	19,647	18,554	16,209
BRAZOS BASIN TOTAL POPULATION	**61,206**	**70,917**	**77,921**	**83,947**	**88,543**	**92,083**
TRINITY BASIN						
CRESSON	90	123	147	168	184	196
COUNTY-OTHER	20	59	43	32	58	60
TRINITY BASIN TOTAL POPULATION	**110**	**182**	**190**	**200**	**242**	**256**
HOOD COUNTY TOTAL POPULATION	**61,316**	**71,099**	**78,111**	**84,147**	**88,785**	**92,339**
JOHNSON COUNTY						
BRAZOS BASIN						
ACTON MUD	382	542	707	888	1,083	1,292
BETHESDA WSC	730	843	959	1,086	1,223	1,370
BURLESON	35	43	50	54	60	68
CLEBURNE	32,501	36,195	40,006	44,185	48,693	53,517
CRESSON	50	68	86	106	127	150
GODLEY	1,133	1,278	1,427	1,591	1,767	1,956
JOHNSON COUNTY SUD	9,931	11,458	13,034	14,762	16,627	18,622
JOSHUA	4,384	5,314	6,273	7,326	8,461	9,676
KEENE	994	1,164	1,340	1,532	1,740	1,962
PARKER WSC	2,422	3,031	3,659	4,347	5,090	5,884
RIO VISTA	1,080	1,321	1,570	1,843	2,137	2,452
COUNTY-OTHER	7,812	9,649	11,547	11,634	11,882	12,286
BRAZOS BASIN TOTAL POPULATION	**61,454**	**70,906**	**80,658**	**89,354**	**98,890**	**109,235**
TRINITY BASIN						
ALVARADO	4,257	4,808	5,377	6,001	6,674	7,394
BETHANY WSC	3,909	4,426	4,959	5,544	6,175	6,850
BETHESDA WSC	14,811	17,088	19,438	22,016	24,796	27,771
BURLESON	35,132	42,802	49,972	54,581	60,651	68,102
CRESSON	104	140	177	218	262	309
CROWLEY	61	96	132	171	213	258
FORT WORTH	0	0	0	5,000	8,000	10,000
GRANDVIEW	1,754	1,980	2,213	2,468	2,743	3,037
JOHNSON COUNTY SUD	27,403	31,618	35,967	40,736	45,880	51,384
JOSHUA	2,838	3,440	4,062	4,743	5,478	6,264
KEENE	6,160	7,213	8,299	9,491	10,776	12,151
MANSFIELD	2,630	3,772	4,950	6,242	7,636	9,128
MOUNTAIN PEAK SUD	1,951	2,378	2,819	3,302	3,823	4,381

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
JOHNSON COUNTY						
TRINITY BASIN						
PARKER WSC	717	897	1,083	1,287	1,506	1,742
VENUS	3,335	3,848	4,377	4,957	5,583	6,253
COUNTY-OTHER	7,319	5,161	3,677	2,303	1,961	1,708
TRINITY BASIN TOTAL POPULATION	**112,381**	**129,667**	**147,502**	**169,060**	**192,157**	**216,732**
JOHNSON COUNTY TOTAL POPULATION	**173,835**	**200,573**	**228,160**	**258,414**	**291,047**	**325,967**
JONES COUNTY						
BRAZOS BASIN						
ABILENE	5,457	5,776	6,000	6,192	6,351	6,481
ANSON	2,577	2,728	2,834	2,925	3,000	3,061
HAMLIN	2,253	2,385	2,477	2,557	2,622	2,676
HAWLEY	673	712	740	763	783	799
HAWLEY WSC	4,966	5,256	5,460	5,635	5,780	5,898
STAMFORD	3,278	3,470	3,605	3,720	3,816	3,894
COUNTY-OTHER	2,220	2,349	2,442	2,520	2,585	2,637
BRAZOS BASIN TOTAL POPULATION	**21,424**	**22,676**	**23,558**	**24,312**	**24,937**	**25,446**
JONES COUNTY TOTAL POPULATION	**21,424**	**22,676**	**23,558**	**24,312**	**24,937**	**25,446**
KENT COUNTY						
BRAZOS BASIN						
JAYTON	528	540	540	540	540	540
COUNTY-OTHER	270	276	276	276	276	276
BRAZOS BASIN TOTAL POPULATION	**798**	**816**	**816**	**816**	**816**	**816**
KENT COUNTY TOTAL POPULATION	**798**	**816**	**816**	**816**	**816**	**816**
KNOX COUNTY						
BRAZOS BASIN						
KNOX CITY	1,169	1,217	1,242	1,271	1,295	1,315
MUNDAY	1,345	1,400	1,429	1,463	1,490	1,512
COUNTY-OTHER	1,197	1,244	1,270	1,301	1,324	1,345
BRAZOS BASIN TOTAL POPULATION	**3,711**	**3,861**	**3,941**	**4,035**	**4,109**	**4,172**
RED BASIN						
COUNTY-OTHER	136	142	145	148	151	153
RED BASIN TOTAL POPULATION	**136**	**142**	**145**	**148**	**151**	**153**
KNOX COUNTY TOTAL POPULATION	**3,847**	**4,003**	**4,086**	**4,183**	**4,260**	**4,325**
LAMPASAS COUNTY						
BRAZOS BASIN						
COPPERAS COVE	1,061	1,588	1,994	2,410	2,778	3,109
KEMPNER	1,207	1,334	1,432	1,533	1,622	1,702
KEMPNER WSC	8,817	9,747	10,465	11,199	11,849	12,433
LAMPASAS	7,402	8,183	8,786	9,402	9,947	10,438
LOMETA	318	351	377	404	427	448

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
LAMPASAS COUNTY						
BRAZOS BASIN						
COUNTY-OTHER	1,876	1,660	1,492	1,320	1,169	1,033
BRAZOS BASIN TOTAL POPULATION	**20,681**	**22,863**	**24,546**	**26,268**	**27,792**	**29,163**
COLORADO BASIN						
LOMETA	631	698	749	801	848	890
COUNTY-OTHER	488	539	579	620	656	688
COLORADO BASIN TOTAL POPULATION	**1,119**	**1,237**	**1,328**	**1,421**	**1,504**	**1,578**
LAMPASAS COUNTY TOTAL POPULATION	**21,800**	**24,100**	**25,874**	**27,689**	**29,296**	**30,741**
LEE COUNTY						
BRAZOS BASIN						
AQUA WSC	2,833	3,185	3,387	3,461	3,510	3,537
GIDDINGS	2,726	3,065	3,260	3,331	3,379	3,404
LEE COUNTY WSC	5,157	5,798	6,167	6,301	6,391	6,439
LEXINGTON	1,355	1,524	1,620	1,656	1,679	1,692
SOUTHWEST MILAM WSC	297	334	355	363	368	371
COUNTY-OTHER	959	1,079	1,148	1,171	1,189	1,199
BRAZOS BASIN TOTAL POPULATION	**13,327**	**14,985**	**15,937**	**16,283**	**16,516**	**16,642**
COLORADO BASIN						
GIDDINGS	2,895	3,255	3,461	3,537	3,587	3,615
LEE COUNTY WSC	1,998	2,247	2,389	2,441	2,476	2,495
COUNTY-OTHER	911	1,024	1,090	1,114	1,130	1,137
COLORADO BASIN TOTAL POPULATION	**5,804**	**6,526**	**6,940**	**7,092**	**7,193**	**7,247**
LEE COUNTY TOTAL POPULATION	**19,131**	**21,511**	**22,877**	**23,375**	**23,709**	**23,889**
LIMESTONE COUNTY						
BRAZOS BASIN						
COOLIDGE	623	690	745	805	855	898
GROESBECK	4,377	4,419	4,453	4,490	4,520	4,547
MART	5	8	10	12	14	16
MEXIA	4,992	5,567	6,034	6,546	6,963	7,330
THORNTON	529	532	534	536	538	540
TRI-COUNTY SUD	1,108	1,132	1,151	1,172	1,189	1,204
COUNTY-OTHER	8,668	9,149	9,540	9,970	10,218	10,526
BRAZOS BASIN TOTAL POPULATION	**20,302**	**21,497**	**22,467**	**23,531**	**24,297**	**25,061**
TRINITY BASIN						
COOLIDGE	473	525	567	613	650	683
MEXIA	3,645	4,065	4,406	4,780	5,084	5,353
COUNTY-OTHER	716	528	377	210	175	55
TRINITY BASIN TOTAL POPULATION	**4,834**	**5,118**	**5,350**	**5,603**	**5,909**	**6,091**
LIMESTONE COUNTY TOTAL POPULATION	**25,136**	**26,615**	**27,817**	**29,134**	**30,206**	**31,152**

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
MCLENNAN COUNTY						
BRAZOS BASIN						
BELLMEAD	10,457	11,100	11,668	12,239	12,808	13,367
BEVERLY HILLS	2,142	2,312	2,462	2,613	2,764	2,911
BRUCEVILLE-EDDY	1,580	1,705	1,816	1,927	2,038	2,147
CHALK BLUFF WSC	2,646	2,646	2,646	2,646	2,646	2,646
CORYELL CITY WATER SUPPLY DISTRICT	763	915	1,049	1,184	1,319	1,451
CRAWFORD	727	739	749	759	769	779
CROSS COUNTRY WSC	2,439	2,474	2,505	2,536	2,567	2,598
ELM CREEK WSC	1,865	2,135	2,373	2,613	2,852	3,087
GHOLSON	1,174	1,305	1,420	1,536	1,652	1,765
GOLINDA	194	250	299	349	398	446
HALLSBURG	545	588	626	665	703	740
HEWITT	15,543	17,848	19,884	21,932	23,973	25,976
LACY-LAKEVIEW	7,076	7,755	8,354	8,957	9,558	10,148
LORENA	1,900	2,142	2,356	2,571	2,785	2,995
MART	2,370	2,558	2,724	2,891	3,057	3,221
MCGREGOR	5,198	5,442	5,657	5,874	6,090	6,302
MOODY	1,472	1,589	1,692	1,796	1,899	2,001
NORTH BOSQUE WSC	2,436	2,998	3,494	3,993	4,490	4,978
RIESEL	1,035	1,067	1,096	1,125	1,154	1,182
ROBINSON	12,665	15,157	17,358	19,572	21,779	23,945
TRI-COUNTY SUD	165	193	217	242	267	291
VALLEY MILLS	22	32	41	50	59	68
WACO	133,769	144,132	153,286	162,493	171,668	180,673
WEST	2,901	3,009	3,105	3,201	3,297	3,391
WEST BRAZOS WSC	1,297	1,400	1,491	1,583	1,674	1,763
WESTERN HILLS WS	3,142	3,348	3,530	3,713	3,896	4,075
WOODWAY	9,075	9,795	10,431	11,070	11,708	12,333
COUNTY-OTHER	27,613	27,582	27,558	27,531	27,503	27,478
BRAZOS BASIN TOTAL POPULATION	**252,211**	**272,216**	**289,887**	**307,661**	**325,373**	**342,757**
MCLENNAN COUNTY TOTAL POPULATION	**252,211**	**272,216**	**289,887**	**307,661**	**325,373**	**342,757**
MILAM COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	1,707	1,808	1,880	1,971	2,049	2,122
BUCKHOLTS	546	579	602	631	656	679
CAMERON	5,884	6,233	6,481	6,796	7,065	7,318
MILANO WSC	1,938	2,053	2,134	2,238	2,326	2,410
ROCKDALE	5,929	6,282	6,531	6,848	7,120	7,375
SOUTHWEST MILAM WSC	6,378	6,756	7,025	7,366	7,658	7,932
THORNDALE	1,414	1,498	1,558	1,633	1,698	1,759

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
MILAM COUNTY						
BRAZOS BASIN						
COUNTY-OTHER	2,438	2,584	2,685	2,817	2,929	3,034
BRAZOS BASIN TOTAL POPULATION	**26,234**	**27,793**	**28,896**	**30,300**	**31,501**	**32,629**
MILAM COUNTY TOTAL POPULATION	**26,234**	**27,793**	**28,896**	**30,300**	**31,501**	**32,629**
NOLAN COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	1,220	1,288	1,335	1,385	1,426	1,461
ROSCOE	1,402	1,481	1,535	1,593	1,639	1,679
SWEETWATER	11,564	12,213	12,656	13,135	13,520	13,852
COUNTY-OTHER	1,112	1,174	1,216	1,263	1,301	1,332
BRAZOS BASIN TOTAL POPULATION	**15,298**	**16,156**	**16,742**	**17,376**	**17,886**	**18,324**
COLORADO BASIN						
COUNTY-OTHER	836	883	915	949	977	1,001
COLORADO BASIN TOTAL POPULATION	**836**	**883**	**915**	**949**	**977**	**1,001**
NOLAN COUNTY TOTAL POPULATION	**16,134**	**17,039**	**17,657**	**18,325**	**18,863**	**19,325**
PALO PINTO COUNTY						
BRAZOS BASIN						
GRAFORD	635	681	713	742	764	781
MINERAL WELLS	15,907	17,072	17,858	18,585	19,139	19,577
POSSUM KINGDOM WSC	1,812	1,945	2,035	2,117	2,180	2,230
STEPHENS REGIONAL SUD	39	41	43	45	46	47
STRAWN	710	762	797	829	854	873
COUNTY-OTHER	11,432	12,270	12,834	13,357	13,756	14,071
BRAZOS BASIN TOTAL POPULATION	**30,535**	**32,771**	**34,280**	**35,675**	**36,739**	**37,579**
PALO PINTO COUNTY TOTAL POPULATION	**30,535**	**32,771**	**34,280**	**35,675**	**36,739**	**37,579**
ROBERTSON COUNTY						
BRAZOS BASIN						
BREMOND	1,027	1,127	1,219	1,315	1,407	1,497
CALVERT	1,192	1,192	1,192	1,192	1,192	1,192
FRANKLIN	1,728	1,896	2,052	2,214	2,369	2,519
HEARNE	4,459	4,459	4,459	4,459	4,459	4,459
ROBERTSON COUNTY WSC	3,049	3,346	3,620	3,907	4,181	4,446
TRI-COUNTY SUD	934	1,025	1,109	1,196	1,280	1,361
WELLBORN SUD	1,804	2,067	2,340	2,673	3,031	3,425
WICKSON CREEK SUD	275	297	319	341	363	385
COUNTY-OTHER	3,890	4,741	5,491	6,228	6,892	7,487
BRAZOS BASIN TOTAL POPULATION	**18,358**	**20,150**	**21,801**	**23,525**	**25,174**	**26,771**
ROBERTSON COUNTY TOTAL POPULATION	**18,358**	**20,150**	**21,801**	**23,525**	**25,174**	**26,771**

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
SHACKELFORD COUNTY						
BRAZOS BASIN						
ALBANY	2,302	2,463	2,450	2,465	2,466	2,466
STEPHENS REGIONAL SUD	14	14	14	14	14	14
COUNTY-OTHER	1,242	1,189	1,193	1,188	1,187	1,187
BRAZOS BASIN TOTAL POPULATION	**3,558**	**3,666**	**3,657**	**3,667**	**3,667**	**3,667**
SHACKELFORD COUNTY TOTAL POPULATION	**3,558**	**3,666**	**3,657**	**3,667**	**3,667**	**3,667**
SOMERVELL COUNTY						
BRAZOS BASIN						
GLEN ROSE	2,730	3,050	3,281	3,459	3,610	3,731
COUNTY-OTHER	6,752	7,544	8,114	8,554	8,929	9,227
BRAZOS BASIN TOTAL POPULATION	**9,482**	**10,594**	**11,395**	**12,013**	**12,539**	**12,958**
SOMERVELL COUNTY TOTAL POPULATION	**9,482**	**10,594**	**11,395**	**12,013**	**12,539**	**12,958**
STEPHENS COUNTY						
BRAZOS BASIN						
BRECKENRIDGE	5,959	6,178	6,276	6,340	6,387	6,419
FORT BELKNAPP WSC	50	52	53	53	54	54
POSSUM KINGDOM WSC	76	79	80	81	81	82
STEPHENS REGIONAL SUD	2,395	2,483	2,523	2,549	2,567	2,580
COUNTY-OTHER	1,447	1,501	1,523	1,540	1,552	1,558
BRAZOS BASIN TOTAL POPULATION	**9,927**	**10,293**	**10,455**	**10,563**	**10,641**	**10,693**
STEPHENS COUNTY TOTAL POPULATION	**9,927**	**10,293**	**10,455**	**10,563**	**10,641**	**10,693**
STONEWALL COUNTY						
BRAZOS BASIN						
ASPERMONT	926	928	928	928	928	928
COUNTY-OTHER	575	576	576	576	576	576
BRAZOS BASIN TOTAL POPULATION	**1,501**	**1,504**	**1,504**	**1,504**	**1,504**	**1,504**
STONEWALL COUNTY TOTAL POPULATION	**1,501**	**1,504**	**1,504**	**1,504**	**1,504**	**1,504**
TAYLOR COUNTY						
BRAZOS BASIN						
ABILENE	119,722	125,260	129,837	133,464	136,172	138,230
HAWLEY WSC	518	542	562	578	589	598
MERKEL	2,771	2,899	3,005	3,089	3,152	3,199
POTOSI WSC	4,927	5,154	5,343	5,492	5,603	5,688
STEAMBOAT MOUNTAIN WSC	3,825	4,002	4,148	4,264	4,350	4,416
TUSCOLA	484	507	525	540	551	559
TYE	1,329	1,391	1,441	1,482	1,512	1,534
COUNTY-OTHER	4,930	5,159	5,348	5,496	5,608	5,695
BRAZOS BASIN TOTAL POPULATION	**138,506**	**144,914**	**150,209**	**154,405**	**157,537**	**159,919**
COLORADO BASIN						

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
TAYLOR COUNTY						
COLORADO BASIN						
COLEMAN COUNTY SUD	102	107	111	114	116	118
STEAMBOAT MOUNTAIN WSC	973	1,018	1,056	1,085	1,107	1,124
TUSCOLA	310	324	336	345	352	358
COUNTY-OTHER	784	820	849	873	892	904
COLORADO BASIN TOTAL POPULATION	**2,169**	**2,269**	**2,352**	**2,417**	**2,467**	**2,504**
TAYLOR COUNTY TOTAL POPULATION	**140,675**	**147,183**	**152,561**	**156,822**	**160,004**	**162,423**
THROCKMORTON COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	180	180	180	180	180	180
STEPHENS REGIONAL SUD	139	139	139	139	139	139
THROCKMORTON	831	831	831	831	831	831
COUNTY-OTHER	496	496	496	496	496	496
BRAZOS BASIN TOTAL POPULATION	**1,646**	**1,646**	**1,646**	**1,646**	**1,646**	**1,646**
THROCKMORTON COUNTY TOTAL POPULATION	**1,646**	**1,646**	**1,646**	**1,646**	**1,646**	**1,646**
WASHINGTON COUNTY						
BRAZOS BASIN						
BRENHAM	17,355	18,886	19,929	20,966	21,772	22,430
COUNTY-OTHER	18,795	19,578	20,111	20,641	21,054	21,390
BRAZOS BASIN TOTAL POPULATION	**36,150**	**38,464**	**40,040**	**41,607**	**42,826**	**43,820**
COLORADO BASIN						
COUNTY-OTHER	49	52	55	57	58	60
COLORADO BASIN TOTAL POPULATION	**49**	**52**	**55**	**57**	**58**	**60**
WASHINGTON COUNTY TOTAL POPULATION	**36,199**	**38,516**	**40,095**	**41,664**	**42,884**	**43,880**
WILLIAMSON COUNTY						
BRAZOS BASIN						
BARTLETT	1,027	1,097	1,184	1,278	1,384	1,494
BELL-MILAM FALLS WSC	327	411	515	628	755	887
BLOCK HOUSE MUD	6,417	6,417	6,417	6,417	6,417	6,417
BRUSHY CREEK MUD	17,636	19,198	19,198	19,198	19,198	19,198
CEDAR PARK	71,518	79,329	79,329	79,329	79,329	79,329
CHISHOLM TRAIL SUD	23,739	29,821	37,396	45,554	54,804	64,369
FERN BLUFF MUD	5,932	5,932	5,932	5,932	5,932	5,932
FLORENCE	1,238	1,313	1,407	1,508	1,623	1,742
GEORGETOWN	72,507	91,085	114,220	139,136	167,390	196,604
GRANGER	1,568	1,678	1,816	1,964	2,132	2,306
HUTTO	31,492	43,919	59,394	76,060	94,959	114,500
JARRELL	1,446	1,787	2,212	2,670	3,189	3,726
JARRELL-SCHWERTNER WSC	3,389	4,258	5,339	6,504	7,825	9,191
JONAH WATER SUD	12,985	16,312	20,456	24,918	29,978	35,210
LEANDER	41,071	69,551	115,635	188,502	238,648	293,630

Water User Group (WUG) Population

REGION G	WUG POPULATION					
	2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY						
BRAZOS BASIN						
LIBERTY HILL	1,479	1,858	2,330	2,838	3,414	4,010
MANVILLE WSC	9,320	11,708	14,682	17,885	21,517	25,272
PFLUGERVILLE	458	576	722	880	1,059	1,244
ROUND ROCK	150,712	189,329	237,417	289,207	347,936	408,660
SOUTHWEST MILAM WSC	1,850	2,325	2,915	3,551	4,273	5,018
TAYLOR	17,209	18,702	20,561	22,563	24,834	27,182
THORNDALE	3	3	4	5	7	8
THRALL	1,000	1,119	1,267	1,426	1,607	1,794
WILLIAMSON COUNTY MUD #10	4,660	5,855	7,342	8,944	10,760	12,638
WILLIAMSON COUNTY MUD #11	2,863	3,597	4,510	5,495	6,610	7,764
WILLIAMSON COUNTY MUD #9	4,143	5,205	6,527	7,951	9,566	11,236
WILLIAMSON-TRAVIS COUNTY MUD #1	4,596	4,596	4,596	4,596	4,596	4,596
COUNTY-OTHER	53,182	66,113	83,270	78,513	105,600	130,474
BRAZOS BASIN TOTAL POPULATION	**543,767**	**683,094**	**856,593**	**1,043,452**	**1,255,342**	**1,474,431**
COLORADO BASIN						
COUNTY-OTHER	17,988	22,597	28,336	34,518	41,527	48,775
COLORADO BASIN TOTAL POPULATION	**17,988**	**22,597**	**28,336**	**34,518**	**41,527**	**48,775**
WILLIAMSON COUNTY TOTAL POPULATION	**561,755**	**705,691**	**884,929**	**1,077,970**	**1,296,869**	**1,523,206**
YOUNG COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	3,665	3,868	4,012	4,165	4,314	4,458
GRAHAM	9,281	9,792	10,159	10,546	10,924	11,289
NEWCASTLE	610	644	668	693	718	742
COUNTY-OTHER	1,458	1,536	1,596	1,656	1,715	1,773
BRAZOS BASIN TOTAL POPULATION	**15,014**	**15,840**	**16,435**	**17,060**	**17,671**	**18,262**
TRINITY BASIN						
FORT BELKNAPP WSC	119	125	130	135	140	145
COUNTY-OTHER	299	316	327	340	352	363
TRINITY BASIN TOTAL POPULATION	**418**	**441**	**457**	**475**	**492**	**508**
YOUNG COUNTY TOTAL POPULATION	**15,432**	**16,281**	**16,892**	**17,535**	**18,163**	**18,770**
REGION G TOTAL POPULATION	**2,371,064**	**2,720,696**	**3,097,007**	**3,494,544**	**3,918,197**	**4,351,042**

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BELL COUNTY						
BRAZOS BASIN						
439 WSC	1,044	1,134	1,233	1,351	1,489	1,644
ARMSTRONG WSC	406	418	434	454	478	502
BARTLETT	159	179	202	226	252	277
BELL-MILAM FALLS WSC	344	356	371	390	411	432
BELTON	3,807	4,306	4,872	5,480	6,099	6,715
CHISHOLM TRAIL SUD	553	632	721	814	906	998
DOG RIDGE WSC	438	488	547	613	682	751
EAST BELL WSC	442	497	560	630	702	775
ELM CREEK WSC	254	288	327	370	413	457
FORT HOOD	3,954	3,870	3,815	3,810	3,804	3,804
HARKER HEIGHTS	6,224	7,079	8,042	9,061	10,087	11,106
HOLLAND	112	108	106	105	106	107
JARRELL-SCHWERTNER WSC	186	209	235	264	294	324
KEMPNER WSC	350	398	451	507	565	622
KILLEEN	19,467	21,902	24,713	27,748	30,864	33,969
LITTLE RIVER-ACADEMY	377	409	447	490	534	578
MOFFAT WSC	479	481	487	500	517	536
MORGAN'S POINT RESORT	595	684	787	897	1,009	1,121
NOLANVILLE	1,382	1,749	2,154	2,575	2,991	3,401
PENDLETON WSC	245	246	255	266	277	289
ROGERS	172	177	183	192	202	213
SALADO WSC	1,726	1,863	2,017	2,182	2,348	2,514
TEMPLE	19,485	22,186	25,212	28,415	31,644	34,842
TROY	169	180	193	209	228	247
WEST BELL COUNTY WSC	789	816	800	798	797	797
COUNTY-OTHER	870	1,716	2,711	3,733	4,719	5,668
MANUFACTURING	1,370	1,490	1,607	1,711	1,847	1,994
MINING	3,242	3,980	4,599	5,349	6,105	6,968
STEAM ELECTRIC POWER	4,220	4,934	5,804	6,865	8,157	9,693
LIVESTOCK	1,009	1,009	1,009	1,009	1,009	1,009
IRRIGATION	2,205	2,174	2,147	2,117	2,086	2,058
BRAZOS BASIN TOTAL DEMAND	**76,075**	**85,958**	**97,041**	**109,131**	**121,622**	**134,411**
BELL COUNTY TOTAL DEMAND	**76,075**	**85,958**	**97,041**	**109,131**	**121,622**	**134,411**
BOSQUE COUNTY						
BRAZOS BASIN						
CHILDRESS CREEK WSC	410	436	446	453	459	464
CLIFTON	700	745	763	775	786	793
CROSS COUNTRY WSC	124	132	135	138	139	141
MERIDIAN	222	234	238	241	244	246
VALLEY MILLS	259	276	284	288	293	295
WALNUT SPRINGS	97	101	102	103	105	106
COUNTY-OTHER	1,271	1,357	1,395	1,420	1,440	1,453
MANUFACTURING	2,739	3,058	3,372	3,643	3,959	4,302
MINING	1,972	2,071	1,892	1,872	1,833	1,821
STEAM ELECTRIC POWER	6,188	7,235	8,510	10,065	11,961	14,214
LIVESTOCK	989	989	989	989	989	989

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BOSQUE COUNTY						
BRAZOS BASIN						
IRRIGATION	2,128	2,094	2,060	2,029	1,998	1,968
BRAZOS BASIN TOTAL DEMAND	**17,099**	**18,728**	**20,186**	**22,016**	**24,206**	**26,792**
BOSQUE COUNTY TOTAL DEMAND	**17,099**	**18,728**	**20,186**	**22,016**	**24,206**	**26,792**
BRAZOS COUNTY						
BRAZOS BASIN						
BRYAN	15,696	16,243	20,342	23,492	26,926	30,652
COLLEGE STATION	19,178	24,320	25,726	29,619	33,927	38,728
TEXAS A & M UNIVERSITY	6,322	6,350	6,309	6,292	6,289	6,288
WELLBORN SUD	1,837	2,070	2,318	2,634	2,982	3,368
WICKSON CREEK SUD	991	1,155	1,332	1,558	1,809	2,088
COUNTY-OTHER	904	590	551	629	752	947
MANUFACTURING	2,456	2,779	3,109	3,405	3,694	4,008
MINING	1,088	1,610	1,433	1,144	923	814
STEAM ELECTRIC POWER	503	406	460	312	405	384
LIVESTOCK	1,322	1,322	1,322	1,322	1,322	1,322
IRRIGATION	26,050	24,791	23,594	22,459	21,374	20,438
BRAZOS BASIN TOTAL DEMAND	**76,347**	**81,636**	**86,496**	**92,866**	**100,403**	**109,037**
BRAZOS COUNTY TOTAL DEMAND	**76,347**	**81,636**	**86,496**	**92,866**	**100,403**	**109,037**
BURLESON COUNTY						
BRAZOS BASIN						
CALDWELL	1,027	1,043	1,073	1,073	1,091	1,108
DEANVILLE WSC	465	471	490	487	493	499
MILANO WSC	212	220	224	231	237	243
SNOOK	184	195	201	209	216	221
SOMERVILLE	266	277	285	296	305	313
SOUTHWEST MILAM WSC	129	135	138	143	147	151
COUNTY-OTHER	615	673	703	771	809	841
MANUFACTURING	139	161	183	203	221	241
MINING	995	1,923	1,512	1,100	686	428
LIVESTOCK	1,508	1,508	1,508	1,508	1,508	1,508
IRRIGATION	22,855	21,904	21,057	20,115	19,216	18,469
BRAZOS BASIN TOTAL DEMAND	**28,395**	**28,510**	**27,374**	**26,136**	**24,929**	**24,022**
BURLESON COUNTY TOTAL DEMAND	**28,395**	**28,510**	**27,374**	**26,136**	**24,929**	**24,022**
CALLAHAN COUNTY						
BRAZOS BASIN						
BAIRD	241	233	227	226	226	226
CLYDE	253	256	254	252	254	257
POTOSI WSC	12	13	13	13	13	13
COUNTY-OTHER	346	357	360	360	365	368
MINING	119	118	111	105	99	94
LIVESTOCK	368	368	368	368	368	368
IRRIGATION	125	123	121	119	117	116
BRAZOS BASIN TOTAL DEMAND	**1,464**	**1,468**	**1,454**	**1,443**	**1,442**	**1,442**
COLORADO BASIN						
CLYDE	71	71	71	71	72	72

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
CALLAHAN COUNTY						
COLORADO BASIN						
COLEMAN COUNTY SUD	20	21	21	21	21	22
CROSS PLAINS	179	186	188	191	193	194
COUNTY-OTHER	267	270	268	267	269	271
MINING	109	109	103	96	91	86
LIVESTOCK	552	552	552	552	552	552
IRRIGATION	448	441	434	427	420	413
COLORADO BASIN TOTAL DEMAND	**1,646**	**1,650**	**1,637**	**1,625**	**1,618**	**1,610**
CALLAHAN COUNTY TOTAL DEMAND	**3,110**	**3,118**	**3,091**	**3,068**	**3,060**	**3,052**
COMANCHE COUNTY						
BRAZOS BASIN						
COMANCHE	521	519	515	522	535	548
DE LEON	223	220	216	219	224	230
COUNTY-OTHER	795	790	781	790	808	828
MANUFACTURING	36	39	41	43	46	49
MINING	444	525	363	276	188	128
LIVESTOCK	3,774	3,774	3,774	3,774	3,774	3,774
IRRIGATION	27,458	27,175	26,894	26,617	26,342	26,076
BRAZOS BASIN TOTAL DEMAND	**33,251**	**33,042**	**32,584**	**32,241**	**31,917**	**31,633**
COLORADO BASIN						
COUNTY-OTHER	10	10	10	10	11	11
LIVESTOCK	121	121	121	121	121	121
COLORADO BASIN TOTAL DEMAND	**131**	**131**	**131**	**131**	**132**	**132**
COMANCHE COUNTY TOTAL DEMAND	**33,382**	**33,173**	**32,715**	**32,372**	**32,049**	**31,765**
CORYELL COUNTY						
BRAZOS BASIN						
COPPERAS COVE	4,266	4,655	5,133	5,586	6,122	6,666
CORYELL CITY WATER SUPPLY DISTRICT	809	899	1,006	1,101	1,208	1,316
ELM CREEK WSC	44	48	54	58	64	70
FORT HOOD	3,672	3,679	3,627	3,622	3,617	3,616
GATESVILLE	4,424	4,939	5,532	6,066	6,658	7,253
KEMPNER WSC	541	602	674	738	810	882
MULTI-COUNTY WSC	278	302	333	362	396	431
COUNTY-OTHER	564	838	1,195	1,507	1,840	2,172
MANUFACTURING	10	11	12	13	14	15
MINING	1,510	1,072	491	363	398	437
LIVESTOCK	1,471	1,471	1,471	1,471	1,471	1,471
IRRIGATION	214	214	214	214	214	214
BRAZOS BASIN TOTAL DEMAND	**17,803**	**18,730**	**19,742**	**21,101**	**22,812**	**24,543**
CORYELL COUNTY TOTAL DEMAND	**17,803**	**18,730**	**19,742**	**21,101**	**22,812**	**24,543**
EASTLAND COUNTY						
BRAZOS BASIN						
CISCO	719	716	701	693	691	691
EASTLAND	648	643	629	621	619	619
GORMAN	99	95	91	90	90	90
RANGER	463	460	450	448	447	447
RISING STAR	100	98	95	93	93	93

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
EASTLAND COUNTY						
BRAZOS BASIN						
STEPHENS REGIONAL SUD	14	14	14	13	13	13
COUNTY-OTHER	555	538	516	503	501	501
MANUFACTURING	72	77	82	85	91	97
MINING	1,123	1,132	896	689	500	417
LIVESTOCK	1,088	1,088	1,088	1,088	1,088	1,088
IRRIGATION	6,343	6,352	6,360	6,362	6,365	6,372
BRAZOS BASIN TOTAL DEMAND	**11,224**	**11,213**	**10,922**	**10,685**	**10,498**	**10,428**
COLORADO BASIN						
COUNTY-OTHER	28	27	26	26	26	26
MINING	41	41	33	25	18	15
LIVESTOCK	39	39	39	39	39	39
IRRIGATION	476	477	477	478	478	478
COLORADO BASIN TOTAL DEMAND	**584**	**584**	**575**	**568**	**561**	**558**
EASTLAND COUNTY TOTAL DEMAND	**11,808**	**11,797**	**11,497**	**11,253**	**11,059**	**10,986**
ERATH COUNTY						
BRAZOS BASIN						
DUBLIN	382	403	421	444	472	499
STEPHENVILLE	2,659	2,867	3,047	3,241	3,448	3,645
COUNTY-OTHER	2,665	2,880	3,066	3,264	3,472	3,671
MANUFACTURING	80	88	96	103	112	122
MINING	505	536	376	304	232	177
LIVESTOCK	6,702	6,702	6,702	6,702	6,702	6,702
IRRIGATION	6,383	6,290	6,198	6,107	6,018	5,933
BRAZOS BASIN TOTAL DEMAND	**19,376**	**19,766**	**19,906**	**20,165**	**20,456**	**20,749**
ERATH COUNTY TOTAL DEMAND	**19,376**	**19,766**	**19,906**	**20,165**	**20,456**	**20,749**
FALLS COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	195	200	198	191	197	203
BRUCEVILLE-EDDY	1	1	1	1	1	1
EAST BELL WSC	40	41	40	39	40	41
GOLINDA	44	44	44	42	43	45
LOTT	75	75	73	70	71	73
MARLIN	1,771	1,827	1,820	1,772	1,823	1,878
ROSEBUD	173	174	170	165	170	175
TRI-COUNTY SUD	350	355	348	335	344	354
WEST BRAZOS WSC	213	215	212	206	212	218
COUNTY-OTHER	526	531	520	504	518	533
MANUFACTURING	1	1	1	1	1	1
MINING	225	246	259	286	307	331
LIVESTOCK	1,878	1,878	1,878	1,878	1,878	1,878
IRRIGATION	4,301	4,163	4,027	3,898	3,772	3,658
BRAZOS BASIN TOTAL DEMAND	**9,793**	**9,751**	**9,591**	**9,388**	**9,377**	**9,389**
FALLS COUNTY TOTAL DEMAND	**9,793**	**9,751**	**9,591**	**9,388**	**9,377**	**9,389**
FISHER COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	112	108	104	104	104	104
ROBY	121	118	116	115	114	114

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
FISHER COUNTY						
BRAZOS BASIN						
ROTAN	178	170	165	164	163	163
COUNTY-OTHER	115	110	106	106	105	105
MANUFACTURING	225	255	284	310	336	364
MINING	407	402	359	313	273	238
LIVESTOCK	634	634	634	634	634	634
IRRIGATION	4,488	4,354	4,224	4,098	3,974	3,862
BRAZOS BASIN TOTAL DEMAND	**6,280**	**6,151**	**5,992**	**5,844**	**5,703**	**5,584**
FISHER COUNTY TOTAL DEMAND	**6,280**	**6,151**	**5,992**	**5,844**	**5,703**	**5,584**
GRIMES COUNTY						
BRAZOS BASIN						
DOBBIN-PLANTERSVILLE WSC	44	49	53	58	62	66
G & W WSC	385	501	591	688	769	841
NAVASOTA	1,428	1,439	1,446	1,466	1,493	1,518
WICKSON CREEK SUD	302	316	327	342	356	368
COUNTY-OTHER	917	915	912	933	951	968
MANUFACTURING	361	408	455	497	539	585
MINING	210	391	306	221	136	83
STEAM ELECTRIC POWER	22,232	23,212	24,262	25,662	27,762	30,034
LIVESTOCK	873	873	873	873	873	873
BRAZOS BASIN TOTAL DEMAND	**26,752**	**28,104**	**29,225**	**30,740**	**32,941**	**35,336**
SAN JACINTO BASIN						
DOBBIN-PLANTERSVILLE WSC	138	156	170	185	198	210
G & W WSC	51	67	78	91	102	111
COUNTY-OTHER	526	524	520	531	540	549
MINING	94	175	137	99	61	37
STEAM ELECTRIC POWER	9,528	9,948	10,398	10,998	11,898	12,871
LIVESTOCK	370	370	370	370	370	370
SAN JACINTO BASIN TOTAL DEMAND	**10,707**	**11,240**	**11,673**	**12,274**	**13,169**	**14,148**
TRINITY BASIN						
WICKSON CREEK SUD	41	43	45	47	49	51
COUNTY-OTHER	346	365	378	401	420	438
MINING	19	36	28	20	12	8
LIVESTOCK	260	260	260	260	260	260
TRINITY BASIN TOTAL DEMAND	**666**	**704**	**711**	**728**	**741**	**757**
GRIMES COUNTY TOTAL DEMAND	**38,125**	**40,048**	**41,609**	**43,742**	**46,851**	**50,241**
HAMILTON COUNTY						
BRAZOS BASIN						
HAMILTON	534	529	517	511	510	510
HICO	180	176	171	168	167	167
MULTI-COUNTY WSC	66	65	63	62	62	62
COUNTY-OTHER	423	411	397	395	394	394
MANUFACTURING	5	6	7	8	9	10
MINING	393	236	101	0	0	0
LIVESTOCK	1,677	1,677	1,677	1,677	1,677	1,677
IRRIGATION	507	504	495	471	448	436

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
HAMILTON COUNTY						
BRAZOS BASIN TOTAL DEMAND	**3,785**	**3,604**	**3,428**	**3,292**	**3,267**	**3,256**
HAMILTON COUNTY TOTAL DEMAND	**3,785**	**3,604**	**3,428**	**3,292**	**3,267**	**3,256**
HASKELL COUNTY						
BRAZOS BASIN						
HASKELL	519	509	498	496	502	513
RULE	89	86	84	85	86	88
STAMFORD	9	9	9	9	9	9
COUNTY-OTHER	255	247	243	245	248	253
MINING	93	92	83	74	66	59
STEAM ELECTRIC POWER	336	393	462	547	650	720
LIVESTOCK	676	676	676	676	676	676
IRRIGATION	47,844	46,422	45,040	43,072	42,405	41,207
BRAZOS BASIN TOTAL DEMAND	**49,821**	**48,434**	**47,095**	**45,204**	**44,642**	**43,525**
HASKELL COUNTY TOTAL DEMAND	**49,821**	**48,434**	**47,095**	**45,204**	**44,642**	**43,525**
HILL COUNTY						
BRAZOS BASIN						
BRANDON-IRENE WSC	55	57	57	59	61	62
FILES VALLEY WSC	121	125	127	131	135	138
HILL COUNTY WSC	425	444	457	473	486	497
HILLSBORO	1,945	2,027	2,077	2,144	2,204	2,255
ITASCA	145	147	147	150	154	156
JOHNSON COUNTY SUD	24	24	25	26	26	27
PARKER WSC	27	27	27	28	29	30
WHITE BLUFF COMMUNITY WS	434	458	474	491	505	517
WHITNEY	431	449	461	475	488	500
WOODROW-OSCEOLA WSC	384	385	388	402	412	421
COUNTY-OTHER	860	898	926	957	982	1,005
MANUFACTURING	45	50	55	60	65	70
MINING	1,307	952	620	322	349	378
LIVESTOCK	944	944	944	944	944	944
IRRIGATION	392	392	392	392	382	379
BRAZOS BASIN TOTAL DEMAND	**7,539**	**7,379**	**7,177**	**7,054**	**7,222**	**7,379**
TRINITY BASIN						
BRANDON-IRENE WSC	201	205	208	214	220	225
FILES VALLEY WSC	284	294	301	310	318	325
HUBBARD	151	153	152	158	162	166
ITASCA	11	11	11	11	11	12
JOHNSON COUNTY SUD	5	5	5	5	6	6
PARKER WSC	5	6	6	6	6	6
COUNTY-OTHER	108	113	116	120	123	126
MINING	327	238	155	81	87	94
LIVESTOCK	240	240	240	240	240	240
IRRIGATION	190	190	190	190	186	184
TRINITY BASIN TOTAL DEMAND	**1,522**	**1,455**	**1,384**	**1,335**	**1,359**	**1,384**
HILL COUNTY TOTAL DEMAND	**9,061**	**8,834**	**8,561**	**8,389**	**8,581**	**8,763**

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
HOOD COUNTY						
BRAZOS BASIN						
ACTON MUD	2,862	4,460	5,497	6,024	6,631	7,308
CRESSON	42	57	67	76	84	89
GRANBURY	1,216	1,432	1,586	1,725	1,837	1,925
OAK TRAIL SHORES SUBDIVISION	357	351	345	344	345	348
TOLAR	120	139	153	166	176	184
COUNTY-OTHER	2,820	2,179	1,898	1,930	1,814	1,582
MANUFACTURING	25	27	29	31	34	37
MINING	2,061	2,417	2,204	2,116	2,027	2,041
STEAM ELECTRIC POWER	5,814	6,796	7,995	9,456	11,238	13,354
LIVESTOCK	520	520	520	520	520	520
IRRIGATION	7,205	7,071	6,939	6,807	6,680	6,560
BRAZOS BASIN TOTAL DEMAND	**23,042**	**25,449**	**27,233**	**29,195**	**31,386**	**33,948**
TRINITY BASIN						
CRESSON	14	19	22	25	27	29
COUNTY-OTHER	3	5	5	3	5	6
MINING	17	19	18	17	16	16
LIVESTOCK	2	2	2	2	2	2
TRINITY BASIN TOTAL DEMAND	**36**	**45**	**47**	**47**	**50**	**53**
HOOD COUNTY TOTAL DEMAND	**23,078**	**25,494**	**27,280**	**29,242**	**31,436**	**34,001**
JOHNSON COUNTY						
BRAZOS BASIN						
ACTON MUD	56	76	98	122	149	177
BETHESDA WSC	154	173	194	219	246	275
BURLESON	6	7	8	8	9	10
CLEBURNE	5,927	6,446	7,010	7,678	8,445	9,276
CRESSON	8	10	13	16	19	22
GODLEY	115	125	137	151	167	184
JOHNSON COUNTY SUD	1,279	1,431	1,596	1,790	2,011	2,250
JOSHUA	577	676	784	906	1,045	1,194
KEENE	68	79	91	103	117	132
PARKER WSC	256	310	366	431	503	580
RIO VISTA	150	178	207	241	279	320
COUNTY-OTHER	833	996	1,163	1,161	1,182	1,221
MANUFACTURING	2,499	2,883	3,272	3,620	3,966	4,344
MINING	2,075	1,402	762	510	584	672
STEAM ELECTRIC POWER	7,000	7,000	7,000	7,000	7,000	7,000
LIVESTOCK	1,290	1,290	1,290	1,290	1,290	1,290
IRRIGATION	71	71	71	71	71	71
BRAZOS BASIN TOTAL DEMAND	**22,364**	**23,153**	**24,062**	**25,317**	**27,083**	**29,018**
TRINITY BASIN						
ALVARADO	456	493	536	589	653	722
BETHANY WSC	367	396	430	472	524	581
BETHESDA WSC	3,105	3,506	3,932	4,422	4,972	5,566
BURLESON	5,309	6,326	7,290	7,912	8,773	9,845
CRESSON	16	21	26	31	38	45
CROWLEY	10	14	19	25	31	37
FORT WORTH	0	0	0	951	1,520	1,899

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
JOHNSON COUNTY						
TRINITY BASIN						
GRANDVIEW	182	197	214	234	260	287
JOHNSON COUNTY SUD	3,529	3,948	4,403	4,938	5,546	6,207
JOSHUA	374	439	508	588	677	774
KEENE	419	485	557	638	725	817
MANSFIELD	721	1,024	1,337	1,681	2,055	2,455
MOUNTAIN PEAK SUD	613	737	868	1,013	1,172	1,342
PARKER WSC	77	92	109	128	149	173
VENUS	624	710	801	904	1,016	1,137
COUNTY-OTHER	780	533	371	230	195	170
MANUFACTURING	18	20	23	26	28	31
MINING	2,051	1,386	753	503	577	664
LIVESTOCK	323	323	323	323	323	323
IRRIGATION	70	70	70	70	70	70
TRINITY BASIN TOTAL DEMAND	**19,044**	**20,720**	**22,570**	**25,678**	**29,304**	**33,145**
JOHNSON COUNTY TOTAL DEMAND	**41,408**	**43,873**	**46,632**	**50,995**	**56,387**	**62,163**
JONES COUNTY						
BRAZOS BASIN						
ABILENE	992	1,023	1,041	1,062	1,087	1,109
ANSON	367	375	378	388	397	405
HAMLIN	424	436	445	458	469	478
HAWLEY	75	76	76	77	79	81
HAWLEY WSC	383	383	381	383	391	399
STAMFORD	834	865	885	910	932	951
COUNTY-OTHER	279	289	296	303	310	316
MINING	239	234	218	199	183	169
STEAM ELECTRIC POWER	333	294	396	364	484	518
LIVESTOCK	853	853	853	853	853	853
IRRIGATION	2,870	2,784	2,701	2,620	2,542	2,471
BRAZOS BASIN TOTAL DEMAND	**7,649**	**7,612**	**7,670**	**7,617**	**7,727**	**7,750**
JONES COUNTY TOTAL DEMAND	**7,649**	**7,612**	**7,670**	**7,617**	**7,727**	**7,750**
KENT COUNTY						
BRAZOS BASIN						
JAYTON	92	91	89	89	88	88
COUNTY-OTHER	33	32	32	32	32	32
MINING	38	38	35	32	29	26
LIVESTOCK	320	320	320	320	320	320
IRRIGATION	1,235	1,198	1,166	1,134	1,102	1,073
BRAZOS BASIN TOTAL DEMAND	**1,718**	**1,679**	**1,642**	**1,607**	**1,571**	**1,539**
KENT COUNTY TOTAL DEMAND	**1,718**	**1,679**	**1,642**	**1,607**	**1,571**	**1,539**
KNOX COUNTY						
BRAZOS BASIN						
KNOX CITY	242	245	248	253	257	261
MUNDAY	256	259	260	266	270	274
COUNTY-OTHER	124	121	120	123	124	126
MINING	12	12	11	11	11	11
LIVESTOCK	790	790	790	790	790	790

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
KNOX COUNTY						
BRAZOS BASIN						
IRRIGATION	32,826	32,020	31,233	30,466	29,718	29,022
BRAZOS BASIN TOTAL DEMAND	**34,250**	**33,447**	**32,662**	**31,909**	**31,170**	**30,484**
RED BASIN						
COUNTY-OTHER	14	14	14	14	15	15
MINING	3	3	3	3	3	3
LIVESTOCK	197	197	197	197	197	197
IRRIGATION	8,207	8,005	7,808	7,616	7,429	7,256
RED BASIN TOTAL DEMAND	**8,421**	**8,219**	**8,022**	**7,830**	**7,644**	**7,471**
KNOX COUNTY TOTAL DEMAND	**42,671**	**41,666**	**40,684**	**39,739**	**38,814**	**37,955**
LAMPASAS COUNTY						
BRAZOS BASIN						
COPPERAS COVE	126	182	222	265	304	340
KEMPNER	202	219	231	246	259	272
KEMPNER WSC	1,539	1,669	1,770	1,882	1,987	2,084
LAMPASAS	1,193	1,278	1,343	1,421	1,500	1,573
LOMETA	60	65	68	73	77	80
COUNTY-OTHER	251	220	198	174	153	136
MANUFACTURING	185	199	213	226	243	261
MINING	148	166	181	196	214	235
LIVESTOCK	783	783	783	783	783	783
IRRIGATION	47	47	46	45	45	45
BRAZOS BASIN TOTAL DEMAND	**4,534**	**4,828**	**5,055**	**5,311**	**5,565**	**5,809**
COLORADO BASIN						
LOMETA	119	128	135	143	151	159
COUNTY-OTHER	66	72	77	82	87	91
MINING	50	55	60	65	72	78
LIVESTOCK	449	449	449	449	449	449
IRRIGATION	340	335	331	327	325	321
COLORADO BASIN TOTAL DEMAND	**1,024**	**1,039**	**1,052**	**1,066**	**1,084**	**1,098**
LAMPASAS COUNTY TOTAL DEMAND	**5,558**	**5,867**	**6,107**	**6,377**	**6,649**	**6,907**
LEE COUNTY						
BRAZOS BASIN						
AQUA WSC	466	511	536	544	551	555
GIDDINGS	544	597	626	634	643	647
LEE COUNTY WSC	654	714	746	755	764	769
LEXINGTON	242	265	277	281	284	286
SOUTHWEST MILAM WSC	48	53	55	56	56	57
COUNTY-OTHER	100	106	112	114	115	116
MINING	2,480	5,685	6,058	6,477	6,945	7,512
LIVESTOCK	1,623	1,623	1,623	1,623	1,623	1,623
IRRIGATION	449	436	424	412	400	389
BRAZOS BASIN TOTAL DEMAND	**6,606**	**9,990**	**10,457**	**10,896**	**11,381**	**11,954**
COLORADO BASIN						
GIDDINGS	576	634	663	673	681	687
LEE COUNTY WSC	254	277	289	293	296	298
COUNTY-OTHER	95	101	106	108	109	110
MANUFACTURING	13	14	15	16	17	18

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
LEE COUNTY						
COLORADO BASIN						
MINING	700	1,604	1,709	1,827	1,959	2,119
LIVESTOCK	312	312	312	312	312	312
IRRIGATION	10	10	10	9	9	9
COLORADO BASIN TOTAL DEMAND	**1,960**	**2,952**	**3,104**	**3,238**	**3,383**	**3,553**
LEE COUNTY TOTAL DEMAND	**8,566**	**12,942**	**13,561**	**14,134**	**14,764**	**15,507**
LIMESTONE COUNTY						
BRAZOS BASIN						
COOLIDGE	102	110	117	126	133	140
GROESBECK	688	677	668	665	668	672
MART	1	2	2	2	2	3
MEXIA	336	374	405	440	468	493
THORNTON	70	68	66	65	65	65
TRI-COUNTY SUD	136	134	133	133	134	136
COUNTY-OTHER	824	831	834	853	871	897
MANUFACTURING	23	26	28	30	32	34
MINING	9,492	9,131	9,076	9,512	9,941	10,511
STEAM ELECTRIC POWER	22,598	26,420	31,079	36,758	43,681	52,033
LIVESTOCK	1,522	1,522	1,522	1,522	1,522	1,522
BRAZOS BASIN TOTAL DEMAND	**35,792**	**39,295**	**43,930**	**50,106**	**57,517**	**66,506**
TRINITY BASIN						
COOLIDGE	78	85	90	96	102	107
MEXIA	245	274	297	322	342	360
COUNTY-OTHER	68	47	33	18	15	5
MANUFACTURING	70	76	83	88	95	103
MINING	825	794	789	827	864	914
LIVESTOCK	182	182	182	182	182	182
TRINITY BASIN TOTAL DEMAND	**1,468**	**1,458**	**1,474**	**1,533**	**1,600**	**1,671**
LIMESTONE COUNTY TOTAL DEMAND	**37,260**	**40,753**	**45,404**	**51,639**	**59,117**	**68,177**
MCLENNAN COUNTY						
BRAZOS BASIN						
BELLMEAD	1,241	1,269	1,296	1,339	1,397	1,457
BEVERLY HILLS	252	261	268	281	297	312
BRUCEVILLE-EDDY	292	307	322	338	357	376
CHALK BLUFF WSC	269	258	249	245	244	244
CORYELL CITY WATER SUPPLY DISTRICT	125	147	166	186	207	227
CRAWFORD	149	147	147	147	149	151
CROSS COUNTRY WSC	409	406	403	405	409	413
ELM CREEK WSC	200	221	241	262	285	308
GHOLSON	155	167	178	190	204	218
GOLINDA	19	24	28	32	36	40
HALLSBURG	81	84	87	92	97	102
HEWITT	2,711	3,036	3,329	3,643	3,975	4,305
LACY-LAKEVIEW	772	817	859	908	966	1,025
LORENA	309	339	367	396	429	461
MART	352	368	383	401	423	445
MCGREGOR	796	808	820	840	869	899

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MCLENNAN COUNTY						
BRAZOS BASIN						
MOODY	189	196	202	211	223	235
NORTH BOSQUE WSC	619	751	870	990	1,112	1,233
RIESEL	136	136	136	137	140	144
ROBINSON	2,437	2,855	3,229	3,618	4,020	4,418
TRI-COUNTY SUD	21	23	25	28	31	33
VALLEY MILLS	5	7	8	10	11	13
WACO	31,576	33,377	35,005	36,840	38,861	40,887
WEST	490	495	500	509	523	538
WEST BRAZOS WSC	186	193	201	212	224	236
WESTERN HILLS WS	212	226	238	250	262	274
WOODWAY	3,477	3,703	3,905	4,129	4,362	4,594
COUNTY-OTHER	3,533	3,409	3,306	3,249	3,236	3,233
MANUFACTURING	5,087	5,724	6,373	6,955	7,532	8,157
MINING	2,538	3,000	3,060	3,508	3,832	4,216
STEAM ELECTRIC POWER	6,990	8,914	9,683	11,155	11,929	12,756
LIVESTOCK	1,584	1,584	1,584	1,584	1,584	1,584
IRRIGATION	4,880	4,877	4,872	4,867	4,862	4,858
BRAZOS BASIN TOTAL DEMAND	**72,092**	**78,129**	**82,340**	**87,957**	**93,088**	**98,392**
MCLENNAN COUNTY TOTAL DEMAND	**72,092**	**78,129**	**82,340**	**87,957**	**93,088**	**98,392**
MILAM COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	255	264	269	279	290	300
BUCKHOLTS	68	70	71	73	76	79
CAMERON	1,359	1,409	1,441	1,500	1,556	1,612
MILANO WSC	220	225	228	236	244	253
ROCKDALE	1,159	1,198	1,222	1,269	1,317	1,364
SOUTHWEST MILAM WSC	1,021	1,055	1,078	1,121	1,163	1,204
THORNDALE	184	188	190	197	204	211
COUNTY-OTHER	300	313	324	339	351	364
MANUFACTURING	12	12	12	14	14	14
MINING	14	14	14	14	14	14
STEAM ELECTRIC POWER	32,023	32,023	32,023	40,989	40,989	40,989
LIVESTOCK	1,822	1,822	1,822	1,822	1,822	1,822
IRRIGATION	5,081	5,040	4,995	4,956	4,915	4,875
BRAZOS BASIN TOTAL DEMAND	**43,518**	**43,633**	**43,689**	**52,809**	**52,955**	**53,101**
MILAM COUNTY TOTAL DEMAND	**43,518**	**43,633**	**43,689**	**52,809**	**52,955**	**53,101**
NOLAN COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	162	164	165	170	175	179
ROSCOE	200	204	205	211	217	222
SWEETWATER	1,852	1,893	1,913	1,977	2,030	2,079
COUNTY-OTHER	130	132	132	135	139	142
MANUFACTURING	1,420	1,611	1,799	1,965	2,130	2,309
MINING	101	100	90	80	71	63
STEAM ELECTRIC POWER	13,526	23,916	23,916	23,916	23,916	23,916
LIVESTOCK	232	232	232	232	232	232

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
NOLAN COUNTY						
BRAZOS BASIN						
IRRIGATION	4,448	4,330	4,214	4,105	3,998	3,898
BRAZOS BASIN TOTAL DEMAND	**22,071**	**32,582**	**32,666**	**32,791**	**32,908**	**33,040**
COLORADO BASIN						
COUNTY-OTHER	98	99	100	102	104	107
MINING	124	122	110	98	87	78
LIVESTOCK	155	155	155	155	155	155
IRRIGATION	2,965	2,887	2,810	2,737	2,665	2,599
COLORADO BASIN TOTAL DEMAND	**3,342**	**3,263**	**3,175**	**3,092**	**3,011**	**2,939**
NOLAN COUNTY TOTAL DEMAND	**25,413**	**35,845**	**35,841**	**35,883**	**35,919**	**35,979**
PALO PINTO COUNTY						
BRAZOS BASIN						
GRAFORD	61	62	63	64	66	67
MINERAL WELLS	2,593	2,708	2,775	2,856	2,935	3,002
POSSUM KINGDOM WSC	777	826	858	889	915	936
STEPHENS REGIONAL SUD	5	5	5	5	5	5
STRAWN	137	144	147	152	156	159
COUNTY-OTHER	1,063	1,079	1,082	1,111	1,140	1,165
MANUFACTURING	49	53	57	61	67	74
MINING	656	847	625	480	336	235
STEAM ELECTRIC POWER	4,000	4,000	4,000	4,000	4,000	4,000
LIVESTOCK	915	915	915	915	915	915
IRRIGATION	3,138	3,097	3,063	3,022	2,981	2,944
BRAZOS BASIN TOTAL DEMAND	**13,394**	**13,736**	**13,590**	**13,555**	**13,516**	**13,502**
PALO PINTO COUNTY TOTAL DEMAND	**13,394**	**13,736**	**13,590**	**13,555**	**13,516**	**13,502**
ROBERTSON COUNTY						
BRAZOS BASIN						
BREMOND	189	201	213	229	244	260
CALVERT	190	183	180	180	179	179
FRANKLIN	256	272	288	307	328	348
HEARNE	757	734	715	713	711	711
ROBERTSON COUNTY WSC	246	256	267	282	300	319
TRI-COUNTY SUD	115	121	128	136	145	154
WELLBORN SUD	356	401	450	511	578	653
WICKSON CREEK SUD	28	30	31	33	35	37
COUNTY-OTHER	439	512	589	665	734	796
MANUFACTURING	133	154	176	197	214	232
MINING	9,913	11,753	13,768	16,222	19,217	22,940
STEAM ELECTRIC POWER	17,461	30,380	35,512	46,984	49,133	51,381
LIVESTOCK	1,612	1,612	1,612	1,612	1,612	1,612
IRRIGATION	63,420	61,607	59,841	58,127	56,460	55,124
BRAZOS BASIN TOTAL DEMAND	**95,115**	**108,216**	**113,770**	**126,198**	**129,890**	**134,746**
ROBERTSON COUNTY TOTAL DEMAND	**95,115**	**108,216**	**113,770**	**126,198**	**129,890**	**134,746**
SHACKELFORD COUNTY						
BRAZOS BASIN						
ALBANY	640	673	662	662	661	661
STEPHENS REGIONAL SUD	2	2	2	2	2	2
COUNTY-OTHER	125	113	108	107	107	107

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
SHACKELFORD COUNTY						
BRAZOS BASIN						
MINING	562	747	558	442	328	243
LIVESTOCK	840	840	840	840	840	840
BRAZOS BASIN TOTAL DEMAND	**2,169**	**2,375**	**2,170**	**2,053**	**1,938**	**1,853**
SHACKELFORD COUNTY TOTAL DEMAND	**2,169**	**2,375**	**2,170**	**2,053**	**1,938**	**1,853**
SOMERVELL COUNTY						
BRAZOS BASIN						
GLEN ROSE	583	638	677	709	738	763
COUNTY-OTHER	822	892	941	982	1,022	1,056
MANUFACTURING	8	9	10	11	12	13
MINING	1,112	1,279	1,146	1,060	998	971
STEAM ELECTRIC POWER	84,817	84,817	84,817	84,817	84,817	84,817
LIVESTOCK	158	158	158	158	158	158
IRRIGATION	83	82	82	81	80	79
BRAZOS BASIN TOTAL DEMAND	**87,583**	**87,875**	**87,831**	**87,818**	**87,825**	**87,857**
SOMERVELL COUNTY TOTAL DEMAND	**87,583**	**87,875**	**87,831**	**87,818**	**87,825**	**87,857**
STEPHENS COUNTY						
BRAZOS BASIN						
BRECKENRIDGE	1,012	1,020	1,013	1,011	1,017	1,022
FORT BELKNAPP WSC	6	6	6	6	6	6
POSSUM KINGDOM WSC	33	34	34	34	34	35
STEPHENS REGIONAL SUD	262	260	255	253	254	255
COUNTY-OTHER	156	155	152	151	152	152
MANUFACTURING	9	10	11	12	13	14
MINING	5,064	5,141	4,458	3,825	3,257	2,773
LIVESTOCK	486	486	486	486	486	486
IRRIGATION	116	115	113	112	111	110
BRAZOS BASIN TOTAL DEMAND	**7,144**	**7,227**	**6,528**	**5,890**	**5,330**	**4,853**
STEPHENS COUNTY TOTAL DEMAND	**7,144**	**7,227**	**6,528**	**5,890**	**5,330**	**4,853**
STONEWALL COUNTY						
BRAZOS BASIN						
ASPERMONT	250	245	242	242	241	241
COUNTY-OTHER	68	65	65	64	64	64
MINING	584	576	512	446	388	338
LIVESTOCK	458	458	458	458	458	458
IRRIGATION	165	160	155	150	146	142
BRAZOS BASIN TOTAL DEMAND	**1,525**	**1,504**	**1,432**	**1,360**	**1,297**	**1,243**
STONEWALL COUNTY TOTAL DEMAND	**1,525**	**1,504**	**1,432**	**1,360**	**1,297**	**1,243**
TAYLOR COUNTY						
BRAZOS BASIN						
ABILENE	21,750	22,165	22,507	22,884	23,303	23,652
HAWLEY WSC	40	40	40	40	40	41
MERKEL	343	345	347	350	357	362
POTOSI WSC	761	779	794	809	823	836
STEAMBOAT MOUNTAIN WSC	326	329	332	336	342	346
TUSCOLA	48	48	48	48	49	50
TYE	186	188	190	193	197	199

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
TAYLOR COUNTY						
BRAZOS BASIN						
COUNTY-OTHER	570	570	571	585	595	604
MANUFACTURING	1,653	1,800	1,942	2,063	2,236	2,424
MINING	293	293	274	259	247	236
LIVESTOCK	681	681	681	681	681	681
IRRIGATION	352	343	335	326	318	310
BRAZOS BASIN TOTAL DEMAND	**27,003**	**27,581**	**28,061**	**28,574**	**29,188**	**29,741**
COLORADO BASIN						
COLEMAN COUNTY SUD	13	13	13	13	14	14
STEAMBOAT MOUNTAIN WSC	84	84	85	86	87	89
TUSCOLA	31	31	31	31	32	32
COUNTY-OTHER	90	90	91	93	95	96
MINING	98	98	92	87	82	79
LIVESTOCK	282	282	282	282	282	282
IRRIGATION	1,205	1,176	1,146	1,118	1,088	1,063
COLORADO BASIN TOTAL DEMAND	**1,803**	**1,774**	**1,740**	**1,710**	**1,680**	**1,655**
TAYLOR COUNTY TOTAL DEMAND	**28,806**	**29,355**	**29,801**	**30,284**	**30,868**	**31,396**
THROCKMORTON COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	20	20	19	19	19	19
STEPHENS REGIONAL SUD	16	15	15	14	14	14
THROCKMORTON	182	178	175	175	174	174
COUNTY-OTHER	48	45	45	45	45	45
MINING	194	191	171	150	132	116
LIVESTOCK	672	672	672	672	672	672
BRAZOS BASIN TOTAL DEMAND	**1,132**	**1,121**	**1,097**	**1,075**	**1,056**	**1,040**
THROCKMORTON COUNTY TOTAL DEMAND	**1,132**	**1,121**	**1,097**	**1,075**	**1,056**	**1,040**
WASHINGTON COUNTY						
BRAZOS BASIN						
BRENHAM	4,079	4,359	4,542	4,747	4,922	5,070
COUNTY-OTHER	2,417	2,431	2,429	2,456	2,498	2,538
MANUFACTURING	692	757	822	879	951	1,029
MINING	569	866	703	538	373	264
LIVESTOCK	1,654	1,654	1,654	1,654	1,654	1,654
IRRIGATION	299	299	299	299	299	299
BRAZOS BASIN TOTAL DEMAND	**9,710**	**10,366**	**10,449**	**10,573**	**10,697**	**10,854**
COLORADO BASIN						
COUNTY-OTHER	7	7	7	7	7	7
LIVESTOCK	7	7	7	7	7	7
COLORADO BASIN TOTAL DEMAND	**14**	**14**	**14**	**14**	**14**	**14**
WASHINGTON COUNTY TOTAL DEMAND	**9,724**	**10,380**	**10,463**	**10,587**	**10,711**	**10,868**
WILLIAMSON COUNTY						
BRAZOS BASIN						
BARTLETT	197	205	217	232	251	270
BELL-MILAM FALLS WSC	49	60	74	89	107	126
BLOCK HOUSE MUD	845	828	819	814	812	811
BRUSHY CREEK MUD	4,366	4,693	4,659	4,639	4,635	4,634
CEDAR PARK	14,753	16,263	16,182	16,154	16,140	16,133

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY						
BRAZOS BASIN						
CHISHOLM TRAIL SUD	4,412	5,471	6,818	8,280	9,948	11,678
FERN BLUFF MUD	1,216	1,204	1,196	1,191	1,189	1,189
FLORENCE	119	121	125	132	141	152
GEORGETOWN	15,944	19,787	24,665	29,960	36,006	42,273
GRANGER	212	220	232	247	268	289
HUTTO	3,767	5,189	6,992	8,937	11,144	13,428
JARRELL	109	129	156	187	222	259
JARRELL-SCHWERTNER WSC	461	561	690	833	1,000	1,174
JONAH WATER SUD	1,830	2,239	2,768	3,350	4,023	4,722
LEANDER	4,905	8,145	13,470	21,914	27,724	34,098
LIBERTY HILL	158	192	237	286	343	402
MANVILLE WSC	1,452	1,789	2,220	2,691	3,233	3,794
PFLUGERVILLE	76	95	118	144	173	203
ROUND ROCK	24,148	29,808	37,049	44,943	53,991	63,377
SOUTHWEST MILAM WSC	297	363	448	541	649	762
TAYLOR	2,840	3,006	3,241	3,522	3,869	4,232
THORNDALE	1	1	1	1	1	1
THRALL	89	95	105	116	130	145
WILLIAMSON COUNTY MUD #10	996	1,243	1,556	1,892	2,274	2,670
WILLIAMSON COUNTY MUD #11	577	719	900	1,095	1,315	1,544
WILLIAMSON COUNTY MUD #9	834	1,034	1,290	1,566	1,882	2,210
WILLIAMSON-TRAVIS COUNTY MUD #1	599	584	576	572	571	570
COUNTY-OTHER	8,254	10,022	12,494	11,725	15,735	19,425
MANUFACTURING	2,354	2,692	3,032	3,339	3,626	3,938
MINING	5,163	6,247	7,364	8,555	9,782	11,186
LIVESTOCK	1,455	1,455	1,455	1,455	1,455	1,455
IRRIGATION	151	151	151	151	151	151
BRAZOS BASIN TOTAL DEMAND	**102,629**	**124,611**	**151,300**	**179,553**	**212,790**	**247,301**
COLORADO BASIN						
COUNTY-OTHER	2,793	3,426	4,252	5,155	6,189	7,263
COLORADO BASIN TOTAL DEMAND	**2,793**	**3,426**	**4,252**	**5,155**	**6,189**	**7,263**
WILLIAMSON COUNTY TOTAL DEMAND	**105,422**	**128,037**	**155,552**	**184,708**	**218,979**	**254,564**
YOUNG COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	406	415	421	431	445	460
GRAHAM	2,666	2,764	2,830	2,918	3,018	3,119
NEWCASTLE	60	61	61	61	63	65
COUNTY-OTHER	178	179	182	188	194	201
MANUFACTURING	59	64	69	72	79	87
MINING	163	240	171	131	91	64
STEAM ELECTRIC POWER	1,730	2,023	2,379	2,814	3,344	3,706
LIVESTOCK	839	839	839	839	839	839
IRRIGATION	51	50	48	47	45	44
BRAZOS BASIN TOTAL DEMAND	**6,152**	**6,635**	**7,000**	**7,501**	**8,118**	**8,585**
TRINITY BASIN						
FORT BELKNAPP WSC	14	14	14	14	15	15

Water User Group (WUG) Demand

REGION G	WUG DEMAND (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
YOUNG COUNTY						
TRINITY BASIN						
COUNTY-OTHER	36	36	37	39	40	41
MINING	24	36	25	20	14	9
LIVESTOCK	137	137	137	137	137	137
TRINITY BASIN TOTAL DEMAND	**211**	**223**	**213**	**210**	**206**	**202**
YOUNG COUNTY TOTAL DEMAND	**6,363**	**6,858**	**7,213**	**7,711**	**8,324**	**8,787**
REGION G TOTAL DEMAND	**1,067,568**	**1,152,415**	**1,214,621**	**1,303,205**	**1,387,178**	**1,478,295**

Source Availability

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
BLAINE AQUIFER	FISHER	BRAZOS	FRESH	5,062	5,062	5,062	5,062	5,062	5,062
BLAINE AQUIFER	KNOX	BRAZOS	FRESH	700	700	700	700	700	700
BLAINE AQUIFER	NOLAN	BRAZOS	FRESH	100	100	100	100	100	100
BLAINE AQUIFER	STONEWALL	BRAZOS	FRESH	8,700	8,700	8,700	8,700	8,700	8,700
BRAZOS RIVER ALLUVIUM AQUIFER	BOSQUE	BRAZOS	FRESH	830	830	830	830	830	830
BRAZOS RIVER ALLUVIUM AQUIFER	BRAZOS	BRAZOS	FRESH	12,500	12,500	12,500	12,500	12,500	12,500
BRAZOS RIVER ALLUVIUM AQUIFER	BURLESON	BRAZOS	FRESH	22,056	22,056	22,056	22,056	22,056	22,056
BRAZOS RIVER ALLUVIUM AQUIFER	FALLS	BRAZOS	FRESH	16,684	16,684	16,684	16,684	16,684	16,684
BRAZOS RIVER ALLUVIUM AQUIFER	GRIMES	BRAZOS	FRESH	5,112	5,112	5,112	5,112	5,112	5,112
BRAZOS RIVER ALLUVIUM AQUIFER	HILL	BRAZOS	FRESH	632	632	632	632	632	632
BRAZOS RIVER ALLUVIUM AQUIFER	MCLENNAN	BRAZOS	FRESH	15,023	15,023	15,023	15,023	15,023	15,023
BRAZOS RIVER ALLUVIUM AQUIFER	MILAM	BRAZOS	FRESH	3,082	3,082	3,082	3,082	3,082	3,082
BRAZOS RIVER ALLUVIUM AQUIFER	ROBERTSON	BRAZOS	FRESH	6,300	6,300	6,300	6,300	6,300	6,300
BRAZOS RIVER ALLUVIUM AQUIFER	WASHINGTON	BRAZOS	FRESH	5,770	5,770	5,770	5,770	5,770	5,770
CARRIZO-WILCOX AQUIFER	BRAZOS	BRAZOS	FRESH	38,835	44,847	49,421	53,970	57,169	57,169
CARRIZO-WILCOX AQUIFER	BURLESON	BRAZOS	FRESH	23,249	28,047	32,518	36,492	38,701	38,701
CARRIZO-WILCOX AQUIFER	FALLS	BRAZOS	FRESH	867	875	884	895	895	895
CARRIZO-WILCOX AQUIFER	GRIMES	BRAZOS	FRESH	2,850	2,850	2,850	2,850	2,850	2,850
CARRIZO-WILCOX AQUIFER	GRIMES	SAN JACINTO	FRESH	3,517	3,517	3,517	3,517	3,517	3,517
CARRIZO-WILCOX AQUIFER	GRIMES	TRINITY	FRESH	5,424	5,424	5,424	5,424	5,424	5,424
CARRIZO-WILCOX AQUIFER	LEE	BRAZOS	FRESH	23,036	22,341	23,513	25,464	25,989	25,989
CARRIZO-WILCOX AQUIFER	LEE	COLORADO	FRESH	987	1,061	1,111	1,363	1,391	1,391
CARRIZO-WILCOX AQUIFER	LIMESTONE	BRAZOS	FRESH	11,306	11,436	11,616	11,918	11,918	11,918
CARRIZO-WILCOX AQUIFER	LIMESTONE	TRINITY	FRESH	988	988	988	988	988	988
CARRIZO-WILCOX AQUIFER	MILAM	BRAZOS	FRESH	23,923	20,206	19,112	21,359	22,319	22,319
CARRIZO-WILCOX AQUIFER	ROBERTSON	BRAZOS	FRESH	45,435	45,814	46,238	46,582	46,583	46,583
CARRIZO-WILCOX AQUIFER	WILLIAMSON	BRAZOS	FRESH	7	7	7	7	7	7
CARRIZO-WILCOX AQUIFER	WILLIAMSON	COLORADO	FRESH	0	0	0	0	0	0
DOCKUM AQUIFER	FISHER	BRAZOS	FRESH	2,880	2,880	2,880	2,880	2,880	2,880
DOCKUM AQUIFER	KENT	BRAZOS	FRESH	6,250	6,250	6,250	6,250	6,250	6,250
DOCKUM AQUIFER	NOLAN	BRAZOS	FRESH	2,824	2,824	2,824	2,824	2,824	2,824

Source Availability

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
DOCKUM AQUIFER	NOLAN	COLORADO	FRESH	2,926	2,926	2,926	2,926	2,926	2,926
EDWARDS-BFZ AQUIFER	BELL	BRAZOS	FRESH	6,469	6,469	6,469	6,469	6,469	6,469
EDWARDS-BFZ AQUIFER	WILLIAMSON	BRAZOS	FRESH	3,351	3,351	3,351	3,351	3,351	3,351
EDWARDS-BFZ AQUIFER	WILLIAMSON	COLORADO	FRESH	101	101	101	101	101	101
EDWARDS-TRINITY-PLATEAU AQUIFER	NOLAN	BRAZOS	FRESH	302	302	302	302	302	302
EDWARDS-TRINITY-PLATEAU AQUIFER	NOLAN	COLORADO	FRESH	391	391	391	391	391	391
EDWARDS-TRINITY-PLATEAU AQUIFER	TAYLOR	BRAZOS	FRESH	331	331	331	331	331	331
EDWARDS-TRINITY-PLATEAU AQUIFER	TAYLOR	COLORADO	FRESH	158	158	158	158	158	158
ELLENBURGER-SAN SABA AQUIFER	LAMPASAS	BRAZOS	FRESH	620	620	620	620	620	620
ELLENBURGER-SAN SABA AQUIFER	LAMPASAS	COLORADO	FRESH	1,973	1,973	1,973	1,973	1,973	1,973
GULF COAST AQUIFER	BRAZOS	BRAZOS	FRESH	1,189	1,189	1,189	1,189	1,189	1,189
GULF COAST AQUIFER	GRIMES	BRAZOS	FRESH	10,889	10,889	10,889	10,889	10,889	10,889
GULF COAST AQUIFER	GRIMES	SAN JACINTO	FRESH	2,197	2,197	2,197	2,197	2,197	2,197
GULF COAST AQUIFER	GRIMES	TRINITY	FRESH	764	223	0	0	0	0
GULF COAST AQUIFER	WASHINGTON	BRAZOS	FRESH	12,972	12,972	12,604	12,604	12,604	12,604
GULF COAST AQUIFER	WASHINGTON	COLORADO	FRESH	73	73	73	73	73	73
HICKORY AQUIFER	LAMPASAS	BRAZOS	FRESH	66	66	66	66	66	66
HICKORY AQUIFER	LAMPASAS	COLORADO	FRESH	47	47	47	47	47	47
HICKORY AQUIFER	WILLIAMSON	BRAZOS	FRESH	15	15	15	15	15	15
HICKORY AQUIFER	WILLIAMSON	COLORADO	FRESH	0	0	0	0	0	0
MARBLE FALLS AQUIFER	LAMPASAS	BRAZOS	FRESH	513	513	513	513	513	513
MARBLE FALLS AQUIFER	LAMPASAS	COLORADO	FRESH	2,324	2,324	2,324	2,324	2,324	2,324
NAVASOTA RIVER ALLUVIUM AQUIFER	GRIMES	BRAZOS	FRESH	2,216	2,216	2,216	2,216	2,216	2,216
OTHER AQUIFER	SHACKELFORD	BRAZOS	FRESH	809	809	809	809	809	809
OTHER AQUIFER	STEPHENS	BRAZOS	FRESH	705	705	705	705	705	705
OTHER AQUIFER	THROCKMORTON	BRAZOS	FRESH	364	364	364	364	364	364
OTHER AQUIFER	WILLIAMSON	BRAZOS	FRESH	665	665	665	665	665	665
OTHER AQUIFER	YOUNG	BRAZOS	FRESH	799	799	799	799	799	799
OTHER AQUIFER	YOUNG	RED	FRESH	163	163	163	163	163	163
OTHER AQUIFER	YOUNG	TRINITY	FRESH	219	219	219	219	219	219
QUEEN CITY AQUIFER	BRAZOS	BRAZOS	FRESH	604	634	587	533	529	529
QUEEN CITY AQUIFER	BURLESON	BRAZOS	FRESH	415	446	446	446	446	446
QUEEN CITY AQUIFER	GRIMES	BRAZOS	FRESH	555	555	555	555	555	555
QUEEN CITY AQUIFER	GRIMES	TRINITY	FRESH	82	82	82	82	82	82
QUEEN CITY AQUIFER	LEE	BRAZOS	FRESH	72	61	58	54	54	54
QUEEN CITY AQUIFER	LEE	COLORADO	FRESH	48	54	55	57	57	57
QUEEN CITY AQUIFER	MILAM	BRAZOS	FRESH	53	56	56	56	56	56
QUEEN CITY AQUIFER	ROBERTSON	BRAZOS	FRESH	0	0	0	0	0	0
QUEEN CITY AQUIFER	WASHINGTON	BRAZOS	FRESH	1	1	1	1	1	1

Source Availability

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
SEYMOUR AQUIFER	FISHER	BRAZOS	FRESH	2,935	2,931	2,920	2,915	2,733	2,733
SEYMOUR AQUIFER	HASKELL	BRAZOS	FRESH	46,180	44,575	42,358	42,524	43,617	43,617
SEYMOUR AQUIFER	JONES	BRAZOS	FRESH	2,918	2,918	2,918	2,918	2,918	2,918
SEYMOUR AQUIFER	KENT	BRAZOS	FRESH	1,181	1,180	1,180	1,179	1,179	1,179
SEYMOUR AQUIFER	KNOX	BRAZOS	FRESH	37,628	34,244	30,288	28,569	30,979	30,979
SEYMOUR AQUIFER	KNOX	RED	FRESH	1,591	1,365	1,213	1,136	1,061	1,061
SEYMOUR AQUIFER	STONEWALL	BRAZOS	FRESH	233	230	224	215	214	214
SEYMOUR AQUIFER	THROCKMORTON	BRAZOS	FRESH	115	115	115	115	115	115
SEYMOUR AQUIFER	YOUNG	BRAZOS	FRESH	309	258	258	258	258	258
SPARTA AQUIFER	BRAZOS	BRAZOS	FRESH	5,941	7,308	7,305	7,307	7,307	7,307
SPARTA AQUIFER	BURLESON	BRAZOS	FRESH	2,245	4,041	5,612	6,734	6,734	6,734
SPARTA AQUIFER	GRIMES	BRAZOS	FRESH	1,280	1,280	1,280	1,280	1,280	1,280
SPARTA AQUIFER	GRIMES	SAN JACINTO	FRESH	20	20	20	20	20	20
SPARTA AQUIFER	GRIMES	TRINITY	FRESH	1,271	1,271	1,271	1,271	1,271	1,271
SPARTA AQUIFER	LEE	BRAZOS	FRESH	151	143	141	135	135	135
SPARTA AQUIFER	LEE	COLORADO	FRESH	172	168	164	159	159	159
SPARTA AQUIFER	ROBERTSON	BRAZOS	FRESH	300	400	500	616	616	616
SPARTA AQUIFER	WASHINGTON	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	BELL	BRAZOS	FRESH	7,068	7,068	7,068	7,068	7,068	7,068
TRINITY AQUIFER	BOSQUE	BRAZOS	FRESH	5,849	5,849	5,849	5,849	5,849	5,849
TRINITY AQUIFER	CALLAHAN	BRAZOS	FRESH	1,792	1,792	1,792	1,792	1,792	1,792
TRINITY AQUIFER	CALLAHAN	COLORADO	FRESH	1,985	1,985	1,985	1,985	1,985	1,985
TRINITY AQUIFER	COMANCHE	BRAZOS	FRESH	32,115	32,115	32,115	32,115	32,115	32,115
TRINITY AQUIFER	COMANCHE	COLORADO	FRESH	120	120	120	120	120	120
TRINITY AQUIFER	CORYELL	BRAZOS	FRESH	3,716	3,716	3,716	3,716	3,716	3,716
TRINITY AQUIFER	EASTLAND	BRAZOS	FRESH	4,489	4,489	4,489	4,489	4,489	4,489
TRINITY AQUIFER	EASTLAND	COLORADO	FRESH	231	231	231	231	231	231
TRINITY AQUIFER	ERATH	BRAZOS	FRESH	32,926	32,926	32,926	32,926	32,926	32,926
TRINITY AQUIFER	FALLS	BRAZOS	FRESH	169	169	169	169	169	169
TRINITY AQUIFER	HAMILTON	BRAZOS	FRESH	2,144	2,144	2,144	2,144	2,144	2,144
TRINITY AQUIFER	HILL	BRAZOS	FRESH	3,086	3,086	3,086	3,086	3,086	3,086
TRINITY AQUIFER	HILL	TRINITY	FRESH	61	61	61	61	61	61
TRINITY AQUIFER	HOOD	BRAZOS	FRESH	11,081	11,081	11,081	11,081	11,081	11,081
TRINITY AQUIFER	HOOD	TRINITY	FRESH	64	64	64	64	64	64
TRINITY AQUIFER	JOHNSON	BRAZOS	FRESH	4,940	4,940	4,940	4,940	4,940	4,940
TRINITY AQUIFER	JOHNSON	TRINITY	FRESH	7,931	7,931	7,931	7,931	7,931	7,931
TRINITY AQUIFER	LAMPASAS	BRAZOS	FRESH	2,925	2,925	2,925	2,925	2,925	2,925
TRINITY AQUIFER	LAMPASAS	COLORADO	FRESH	192	192	192	192	192	192
TRINITY AQUIFER	LIMESTONE	BRAZOS	FRESH	69	69	69	69	69	69
TRINITY AQUIFER	LIMESTONE	TRINITY	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	MCLENNAN	BRAZOS	FRESH	20,690	20,690	20,690	20,690	20,690	20,690
TRINITY AQUIFER	MILAM	BRAZOS	FRESH	288	288	288	288	288	288

Source Availability

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
TRINITY AQUIFER	PALO PINTO	BRAZOS	FRESH	12	12	12	12	12	12
TRINITY AQUIFER	SOMERVELL	BRAZOS	FRESH	2,485	2,485	2,485	2,485	2,485	2,485
TRINITY AQUIFER	TAYLOR	BRAZOS	FRESH	153	153	153	153	153	153
TRINITY AQUIFER	TAYLOR	COLORADO	FRESH	278	278	278	278	278	278
TRINITY AQUIFER	WILLIAMSON	BRAZOS	FRESH	1,514	1,514	1,514	1,514	1,514	1,514
TRINITY AQUIFER	WILLIAMSON	COLORADO	FRESH	68	68	68	68	68	68
WOODBINE AQUIFER	HILL	BRAZOS	FRESH	1,249	1,249	1,249	1,249	1,249	1,249
WOODBINE AQUIFER	HILL	TRINITY	FRESH	1,012	1,012	1,012	1,012	1,012	1,012
WOODBINE AQUIFER	JOHNSON	BRAZOS	FRESH	141	141	141	141	141	141
WOODBINE AQUIFER	JOHNSON	TRINITY	FRESH	4,591	4,591	4,591	4,591	4,591	4,591
WOODBINE AQUIFER	LIMESTONE	BRAZOS	FRESH	34	34	34	34	34	34
WOODBINE AQUIFER	MCLENNAN	BRAZOS	FRESH	5	5	5	5	5	5
YEGUA-JACKSON AQUIFER	BRAZOS	BRAZOS	FRESH	7,071	7,071	7,071	7,071	7,071	7,071
YEGUA-JACKSON AQUIFER	BURLESON	BRAZOS	FRESH	12,923	12,923	12,923	12,923	12,923	12,923
YEGUA-JACKSON AQUIFER	GRIMES	BRAZOS	FRESH	1,954	1,954	1,954	1,954	1,954	1,954
YEGUA-JACKSON AQUIFER	GRIMES	SAN JACINTO	FRESH	80	80	80	80	80	80
YEGUA-JACKSON AQUIFER	GRIMES	TRINITY	FRESH	1,244	1,244	1,244	1,244	1,244	1,244
YEGUA-JACKSON AQUIFER	LEE	BRAZOS	FRESH	297	297	297	297	297	297
YEGUA-JACKSON AQUIFER	LEE	COLORADO	FRESH	338	338	338	338	338	338
YEGUA-JACKSON AQUIFER	WASHINGTON	BRAZOS	FRESH	134	134	134	134	134	134
YEGUA-JACKSON AQUIFER	WASHINGTON	COLORADO	FRESH	0	0	0	0	0	0
GROUNDWATER TOTAL SOURCE AVAILABILITY				**634,354**	**638,838**	**643,304**	**656,462**	**666,625**	**666,625**

REGION G

REUSE	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
DIRECT REUSE	TAYLOR	BRAZOS	FRESH	1,016	1,016	1,016	1,016	1,016	1,016
DIRECT REUSE - CLEBURNE | CLEBURNE/CLEBURNE	JOHNSON	BRAZOS	FRESH	1,344	1,344	1,344	1,344	1,344	1,344
DIRECT REUSE - WMARSS | WACO/WACO	MCLENNAN	BRAZOS	FRESH	27,035	28,902	30,769	32,636	34,503	36,730
DIRECT REUSE | ROUND ROCK WWTP/ROUND ROCK IRRIGATION	WILLIAMSON	BRAZOS	FRESH	4,320	4,320	4,320	4,320	4,320	4,320
REUSE TOTAL SOURCE AVAILABILITY				**33,715**	**35,582**	**37,449**	**39,316**	**41,183**	**43,410**

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
ABILENE LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,075	940	805	670	535	400

Source Availability

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
ALCOA LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	14,000	14,000	14,000	14,000	14,000	14,000
ALVARADO LAKE/RESERVOIR	RESERVOIR	TRINITY	FRESH	800	800	800	800	800	800
ANSON NORTH LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	202	202	202	202	202	202
BAIRD LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	230	230	230	230	230	230
BRAZOS LIVESTOCK LOCAL SUPPLY	BELL	BRAZOS	FRESH	1,009	1,009	1,009	1,009	1,009	1,009
BRAZOS LIVESTOCK LOCAL SUPPLY	BOSQUE	BRAZOS	FRESH	989	989	989	989	989	989
BRAZOS LIVESTOCK LOCAL SUPPLY	BRAZOS	BRAZOS	FRESH	1,322	1,322	1,322	1,322	1,322	1,322
BRAZOS LIVESTOCK LOCAL SUPPLY	BURLESON	BRAZOS	FRESH	1,508	1,508	1,508	1,508	1,508	1,508
BRAZOS LIVESTOCK LOCAL SUPPLY	CALLAHAN	BRAZOS	FRESH	368	368	368	368	368	368
BRAZOS LIVESTOCK LOCAL SUPPLY	COMANCHE	BRAZOS	FRESH	3,774	3,774	3,774	3,774	3,774	3,774
BRAZOS LIVESTOCK LOCAL SUPPLY	CORYELL	BRAZOS	FRESH	1,471	1,471	1,471	1,471	1,471	1,471
BRAZOS LIVESTOCK LOCAL SUPPLY	EASTLAND	BRAZOS	FRESH	1,088	1,088	1,088	1,088	1,088	1,088
BRAZOS LIVESTOCK LOCAL SUPPLY	ERATH	BRAZOS	FRESH	6,702	6,702	6,702	6,702	6,702	6,702
BRAZOS LIVESTOCK LOCAL SUPPLY	FALLS	BRAZOS	FRESH	1,878	1,878	1,878	1,878	1,878	1,878
BRAZOS LIVESTOCK LOCAL SUPPLY	FISHER	BRAZOS	FRESH	634	634	634	634	634	634
BRAZOS LIVESTOCK LOCAL SUPPLY	GRIMES	BRAZOS	FRESH	873	873	873	873	873	873
BRAZOS LIVESTOCK LOCAL SUPPLY	HAMILTON	BRAZOS	FRESH	1,677	1,677	1,677	1,677	1,677	1,677
BRAZOS LIVESTOCK LOCAL SUPPLY	HASKELL	BRAZOS	FRESH	676	676	676	676	676	676
BRAZOS LIVESTOCK LOCAL SUPPLY	HILL	BRAZOS	FRESH	944	944	944	944	944	944
BRAZOS LIVESTOCK LOCAL SUPPLY	HOOD	BRAZOS	FRESH	520	520	520	520	520	520
BRAZOS LIVESTOCK LOCAL SUPPLY	JOHNSON	BRAZOS	FRESH	1,290	1,290	1,290	1,290	1,290	1,290
BRAZOS LIVESTOCK LOCAL SUPPLY	JONES	BRAZOS	FRESH	853	853	853	853	853	853
BRAZOS LIVESTOCK LOCAL SUPPLY	KENT	BRAZOS	FRESH	320	320	320	320	320	320
BRAZOS LIVESTOCK LOCAL SUPPLY	KNOX	BRAZOS	FRESH	790	790	790	790	790	790
BRAZOS LIVESTOCK LOCAL SUPPLY	LAMPASAS	BRAZOS	FRESH	783	783	783	783	783	783
BRAZOS LIVESTOCK LOCAL SUPPLY	LEE	BRAZOS	FRESH	1,623	1,623	1,623	1,623	1,623	1,623
BRAZOS LIVESTOCK LOCAL SUPPLY	LIMESTONE	BRAZOS	FRESH	1,522	1,522	1,522	1,522	1,522	1,522
BRAZOS LIVESTOCK LOCAL SUPPLY	MCLENNAN	BRAZOS	FRESH	1,584	1,584	1,584	1,584	1,584	1,584
BRAZOS LIVESTOCK LOCAL SUPPLY	MILAM	BRAZOS	FRESH	1,822	1,822	1,822	1,822	1,822	1,822

Source Availability

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
BRAZOS LIVESTOCK LOCAL SUPPLY	NOLAN	BRAZOS	FRESH	232	232	232	232	232	232
BRAZOS LIVESTOCK LOCAL SUPPLY	PALO PINTO	BRAZOS	FRESH	915	915	915	915	915	915
BRAZOS LIVESTOCK LOCAL SUPPLY	ROBERTSON	BRAZOS	FRESH	1,612	1,612	1,612	1,612	1,612	1,612
BRAZOS LIVESTOCK LOCAL SUPPLY	SHACKELFORD	BRAZOS	FRESH	840	840	840	840	840	840
BRAZOS LIVESTOCK LOCAL SUPPLY	SOMERVELL	BRAZOS	FRESH	158	158	158	158	158	158
BRAZOS LIVESTOCK LOCAL SUPPLY	STEPHENS	BRAZOS	FRESH	486	486	486	486	486	486
BRAZOS LIVESTOCK LOCAL SUPPLY	STONEWALL	BRAZOS	FRESH	458	458	458	458	458	458
BRAZOS LIVESTOCK LOCAL SUPPLY	TAYLOR	BRAZOS	FRESH	681	681	681	681	681	681
BRAZOS LIVESTOCK LOCAL SUPPLY	THROCKMORTON	BRAZOS	FRESH	672	672	672	672	672	672
BRAZOS LIVESTOCK LOCAL SUPPLY	WASHINGTON	BRAZOS	FRESH	1,654	1,654	1,654	1,654	1,654	1,654
BRAZOS LIVESTOCK LOCAL SUPPLY	WILLIAMSON	BRAZOS	FRESH	1,455	1,455	1,455	1,455	1,455	1,455
BRAZOS LIVESTOCK LOCAL SUPPLY	YOUNG	BRAZOS	FRESH	839	839	839	839	839	839
BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	RESERVOIR	BRAZOS	FRESH	13,315	13,072	12,829	12,585	12,342	12,099
BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	RESERVOIR	BRAZOS	FRESH	211,294	210,249	209,204	208,159	207,114	206,069
BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	RESERVOIR	BRAZOS	FRESH	420,470	414,567	408,664	402,761	396,858	390,955
BRAZOS RUN-OF-RIVER	BELL	BRAZOS	FRESH	14,061	13,833	13,606	13,378	13,150	12,923
BRAZOS RUN-OF-RIVER	BOSQUE	BRAZOS	FRESH	132	132	132	131	131	131
BRAZOS RUN-OF-RIVER	BRAZOS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	CORYELL	BRAZOS	FRESH	530	530	530	530	530	530
BRAZOS RUN-OF-RIVER	EASTLAND	BRAZOS	FRESH	460	458	456	454	452	450
BRAZOS RUN-OF-RIVER	ERATH	BRAZOS	FRESH	101	100	100	99	99	98
BRAZOS RUN-OF-RIVER	FALLS	BRAZOS	FRESH	1,724	1,724	1,724	1,724	1,724	1,724
BRAZOS RUN-OF-RIVER	FISHER	BRAZOS	FRESH	17	17	17	17	17	17
BRAZOS RUN-OF-RIVER	GRIMES	BRAZOS	FRESH	100	100	100	100	100	100
BRAZOS RUN-OF-RIVER	HAMILTON	BRAZOS	FRESH	54	53	51	50	49	47
BRAZOS RUN-OF-RIVER	HILL	BRAZOS	FRESH	9	9	9	9	9	9
BRAZOS RUN-OF-RIVER	JOHNSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	JONES	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	KNOX	BRAZOS	FRESH	34	34	34	34	34	34
BRAZOS RUN-OF-RIVER	LAMPASAS	BRAZOS	FRESH	151	151	151	151	151	151
BRAZOS RUN-OF-RIVER	LEE	BRAZOS	FRESH	20	20	20	20	20	20
BRAZOS RUN-OF-RIVER	LIMESTONE	BRAZOS	FRESH	14	14	14	14	14	14

Source Availability

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
BRAZOS RUN-OF-RIVER	MCLENNAN	BRAZOS	FRESH	7,445	7,427	7,410	7,393	7,375	7,358
BRAZOS RUN-OF-RIVER	MILAM	BRAZOS	FRESH	3,484	3,484	3,484	3,484	3,484	3,484
BRAZOS RUN-OF-RIVER	NOLAN	BRAZOS	FRESH	40	40	40	40	40	40
BRAZOS RUN-OF-RIVER	ROBERTSON	BRAZOS	FRESH	535	535	535	535	535	535
BRAZOS RUN-OF-RIVER	SHACKELFORD	BRAZOS	FRESH	57	57	57	57	57	57
BRAZOS RUN-OF-RIVER	SOMERVELL	BRAZOS	FRESH	2,000	2,000	2,000	2,000	2,000	2,000
BRAZOS RUN-OF-RIVER	STONEWALL	BRAZOS	FRESH	8	8	8	8	8	8
BRAZOS RUN-OF-RIVER	THROCKMORTON	BRAZOS	FRESH	8	8	8	8	8	8
BRAZOS RUN-OF-RIVER	WILLIAMSON	BRAZOS	FRESH	152	152	152	152	152	152
CISCO LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,090	1,087	1,084	1,081	1,078	1,075
CITY OF HAMLIN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	250	250	250	250	250	250
CLIFTON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	730	730	730	730	730	730
CLYDE LAKE/RESERVOIR	RESERVOIR	COLORADO	FRESH	500	500	500	500	500	500
COLORADO LIVESTOCK LOCAL SUPPLY	CALLAHAN	COLORADO	FRESH	552	552	552	552	552	552
COLORADO LIVESTOCK LOCAL SUPPLY	COMANCHE	COLORADO	FRESH	121	121	121	121	121	121
COLORADO LIVESTOCK LOCAL SUPPLY	EASTLAND	COLORADO	FRESH	39	39	39	39	39	39
COLORADO LIVESTOCK LOCAL SUPPLY	LAMPASAS	COLORADO	FRESH	449	449	449	449	449	449
COLORADO LIVESTOCK LOCAL SUPPLY	LEE	COLORADO	FRESH	312	312	312	312	312	312
COLORADO LIVESTOCK LOCAL SUPPLY	NOLAN	COLORADO	FRESH	155	155	155	155	155	155
COLORADO LIVESTOCK LOCAL SUPPLY	TAYLOR	COLORADO	FRESH	282	282	282	282	282	282
COLORADO LIVESTOCK LOCAL SUPPLY	WASHINGTON	COLORADO	FRESH	7	7	7	7	7	7
COOLIDGE LAKE/RESERVOIR	RESERVOIR	TRINITY	FRESH	162	162	162	162	162	162
CRAWFORD LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1	1	1	1	1	1
DANIEL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	200	197	195	192	190	187
DANSBY POWER PLANT/BRYAN UTILITIES LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	85	85	85	85	85	85
EASTLAND LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	460	458	456	454	452	450
FORT PHANTOM HILL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	11,650	11,384	11,118	10,852	10,586	10,320
GIBBONS CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	9,740	9,740	9,740	9,740	9,740	9,740
GORDON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	5	5	5	5	5	5
GRAHAM/EDDLEMAN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	4,250	4,082	3,914	3,746	3,578	3,410
HUBBARD CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	27,010	26,871	26,733	26,594	26,456	26,317
KIRBY LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	525	514	503	492	481	470

Source Availability

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
LAKE CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	9,835	9,830	9,825	9,820	9,815	9,810
LAKE DAVIS LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	160	142	124	106	88	70
LEON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	5,488	5,456	5,425	5,394	5,362	5,331
LYTLE LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	230	230	230	230	230	230
MCCARTY LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	380	380	380	380	380	380
MEXIA LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,135	1,028	921	814	707	600
MILLERS CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	2,200	1,830	1,460	1,090	720	350
MORAN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	85	85	85	85	85	85
PALO PINTO LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	7,655	7,481	7,307	7,133	6,959	6,785
PAT CLEBURNE LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	5,040	4,968	4,896	4,824	4,752	4,680
RED LIVESTOCK LOCAL SUPPLY	KNOX	RED	FRESH	197	197	197	197	197	197
SAN JACINTO LIVESTOCK LOCAL SUPPLY	GRIMES	SAN JACINTO	FRESH	370	370	370	370	370	370
SQUAW CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	9,285	9,272	9,260	9,247	9,234	9,222
STAMFORD LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	5,510	5,390	5,270	5,150	5,030	4,910
STRAWN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	160	160	160	160	160	160
SWEETWATER LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,120	1,119	1,118	1,117	1,116	1,115
THROCKMORTON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	325	325	325	325	325	325
TRADINGHOUSE CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	4,967	4,975	4,983	4,992	5,000	5,000
TRAMMEL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	545	545	545	545	545	545
TRINITY LIVESTOCK LOCAL SUPPLY	GRIMES	TRINITY	FRESH	260	260	260	260	260	260
TRINITY LIVESTOCK LOCAL SUPPLY	HILL	TRINITY	FRESH	240	240	240	240	240	240
TRINITY LIVESTOCK LOCAL SUPPLY	HOOD	TRINITY	FRESH	2	2	2	2	2	2
TRINITY LIVESTOCK LOCAL SUPPLY	JOHNSON	TRINITY	FRESH	323	323	323	323	323	323
TRINITY LIVESTOCK LOCAL SUPPLY	LIMESTONE	TRINITY	FRESH	182	182	182	182	182	182
TRINITY LIVESTOCK LOCAL SUPPLY	YOUNG	TRINITY	FRESH	137	137	137	137	137	137
TURTLE CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	4,908	4,906	4,904	4,901	4,899	4,897
TWIN OAK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	2,885	2,867	2,849	2,831	2,813	2,795
WACO LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	79,877	79,877	79,877	79,877	79,877	79,877

Source Availability

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE AVAILABILITY (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,800	1,800	1,800	1,800	1,800	1,800
WOODSON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	99	99	99	99	99	99
SURFACE WATER TOTAL SOURCE AVAILABILITY				**942,519**	**933,427**	**924,341**	**915,249**	**906,160**	**897,063**
REGION G TOTAL SOURCE AVAILABILITY				**1,610,588**	**1,607,847**	**1,605,094**	**1,611,027**	**1,613,968**	**1,607,098**

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
BELL COUNTY							
BRAZOS BASIN							
439 WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,499	1,489	1,475	1,398	1,443	1,550
BARTLETT	G | TRINITY AQUIFER | WILLIAMSON COUNTY	33	34	36	37	37	37
BELL-MILAM FALLS WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	475	471	474	478	476	474
BELL-MILAM FALLS WSC	G | TRINITY AQUIFER | BELL COUNTY	582	575	580	585	583	581
BELTON	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	7,349	7,305	7,235	6,864	6,771	6,625
BELTON	G | TRINITY AQUIFER | BELL COUNTY	50	50	50	50	50	50
CHISHOLM TRAIL SUD	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	259	238	216	197	180	165
CHISHOLM TRAIL SUD	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	31	28	27	25	23	22
DOG RIDGE WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,638	1,631	1,623	1,583	1,573	1,557
ELM CREEK WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	334	337	339	336	335	331
FORT HOOD	G | BRAZOS RUN-OF-RIVER	5,732	5,479	5,290	5,102	4,913	4,725
HARKER HEIGHTS	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	7,155	7,103	7,103	7,565	8,112	7,935
HOLLAND	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	166	166	166	166	166	166
HOLLAND	G | TRINITY AQUIFER | BELL COUNTY	323	323	323	323	323	323
JARRELL-SCHWERTNER WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	457	466	485	444	412	381
JARRELL-SCHWERTNER WSC	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	17	13	9	5	1	0
KEMPNER WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	277	283	293	302	311	319
KILLEEN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	39,957	39,761	39,377	37,343	36,833	36,028
LITTLE RIVER-ACADEMY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	323	323	323	323	323	323
LITTLE RIVER-ACADEMY	G | TRINITY AQUIFER | BELL COUNTY	65	65	65	65	65	65
MOFFAT WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,112	1,107	1,095	1,059	1,044	1,021
MOFFAT WSC	G | TRINITY AQUIFER | BELL COUNTY	206	206	206	206	206	206
NOLANVILLE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	990	985	976	925	913	893
NOLANVILLE	G | TRINITY AQUIFER | BELL COUNTY	320	320	320	320	320	320
PENDLETON WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	380	378	373	361	355	345
PENDLETON WSC	G | TRINITY AQUIFER | BELL COUNTY	122	122	122	122	122	122
ROGERS	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	400	400	400	400	400	400
ROGERS	G | TRINITY AQUIFER | BELL COUNTY	207	207	207	207	207	207
SALADO WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	183	183	183	183	183	183
SALADO WSC	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	2,053	2,053	2,053	2,053	2,053	2,053
TEMPLE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	19,952	18,494	19,018	18,384	18,158	19,586

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
BELL COUNTY							
BRAZOS BASIN							
TEMPLE	G | BRAZOS RUN-OF-RIVER	1,706	1,739	1,771	1,804	1,836	1,869
TEMPLE	G | TRINITY AQUIFER | BELL COUNTY	50	50	50	50	50	50
TROY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	959	959	959	959	959	959
TROY	G | TRINITY AQUIFER | BELL COUNTY	221	221	221	221	221	221
WEST BELL COUNTY WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,660	1,660	1,660	1,660	1,660	1,660
MORGAN'S POINT RESORT	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,935	1,935	1,935	1,935	1,935	1,935
ARMSTRONG WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	392	392	392	392	392	392
ARMSTRONG WSC	G | TRINITY AQUIFER | BELL COUNTY	879	879	879	879	879	879
EAST BELL WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	317	320	323	326	327	329
EAST BELL WSC	G | TRINITY AQUIFER | BELL COUNTY	1,018	1,027	1,037	1,046	1,051	1,056
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,297	1,293	1,286	1,248	1,238	1,223
COUNTY-OTHER	G | TRINITY AQUIFER | BELL COUNTY	657	657	657	657	657	657
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	497	497	497	497	497	497
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,009	1,009	1,009	1,009	1,009	1,009
IRRIGATION	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	308	307	304	288	284	278
IRRIGATION	G | BRAZOS RUN-OF-RIVER	355	355	356	356	357	357
IRRIGATION	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	220	220	220	220	220	220
IRRIGATION	G | TRINITY AQUIFER | BELL COUNTY	165	165	165	165	165	165
BRAZOS BASIN TOTAL EXISTING SUPPLY		**106,292**	**104,280**	**104,163**	**101,123**	**100,628**	**100,749**
BELL COUNTY TOTAL EXISTING SUPPLY		**106,292**	**104,280**	**104,163**	**101,123**	**100,628**	**100,749**
BOSQUE COUNTY							
BRAZOS BASIN							
CHILDRESS CREEK WSC	G | TRINITY AQUIFER | BOSQUE COUNTY	448	448	448	448	448	448
CLIFTON	G | CLIFTON LAKE/RESERVOIR	565	565	565	565	565	565
CLIFTON	G | TRINITY AQUIFER | BOSQUE COUNTY	469	469	469	469	469	434
CROSS COUNTRY WSC	G | TRINITY AQUIFER | BOSQUE COUNTY	30	30	30	0	0	0
CROSS COUNTRY WSC	G | TRINITY AQUIFER | MCLENNAN COUNTY	131	131	131	11	7	3
MERIDIAN	G | TRINITY AQUIFER | BOSQUE COUNTY	487	487	487	487	487	487
VALLEY MILLS	G | TRINITY AQUIFER | BOSQUE COUNTY	300	298	298	296	295	293
WALNUT SPRINGS	G | TRINITY AQUIFER | BOSQUE COUNTY	195	195	195	195	195	195
COUNTY-OTHER	G | TRINITY AQUIFER | BOSQUE COUNTY	1,519	1,519	1,519	1,519	1,519	1,519
MANUFACTURING	G | CLIFTON LAKE/RESERVOIR	1	1	1	1	1	1
MANUFACTURING	G | TRINITY AQUIFER | BOSQUE COUNTY	870	870	870	870	870	870
MINING	G | TRINITY AQUIFER | BOSQUE COUNTY	129	129	129	129	129	129

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
BOSQUE COUNTY							
BRAZOS BASIN							
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	6,500	6,374	6,248	6,122	5,996	5,870
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	989	989	989	989	989	989
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | BOSQUE COUNTY	830	830	830	830	830	830
IRRIGATION	G | BRAZOS RUN-OF-RIVER	132	132	132	131	131	131
IRRIGATION	G | TRINITY AQUIFER | BOSQUE COUNTY	630	630	630	630	630	630
BRAZOS BASIN TOTAL EXISTING SUPPLY		**14,225**	**14,097**	**13,971**	**13,692**	**13,561**	**13,394**
BOSQUE COUNTY TOTAL EXISTING SUPPLY		**14,225**	**14,097**	**13,971**	**13,692**	**13,561**	**13,394**
BRAZOS COUNTY							
BRAZOS BASIN							
BRYAN	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	11,611	14,205	14,040	10,848	7,367	3,305
BRYAN	G | SPARTA AQUIFER | BRAZOS COUNTY	750	769	769	769	769	769
COLLEGE STATION	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	13,679	15,757	17,815	21,407	25,303	29,788
COLLEGE STATION	G | SPARTA AQUIFER | BRAZOS COUNTY	526	539	539	539	539	539
WELLBORN SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	938	938	938	938	938	938
WELLBORN SUD	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	1,276	1,222	1,080	850	596	316
WICKSON CREEK SUD	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	1,499	1,451	1,375	1,311	1,249	1,201
WICKSON CREEK SUD	G | SPARTA AQUIFER | BRAZOS COUNTY	1,027	1,082	1,111	1,139	1,164	1,188
TEXAS A & M UNIVERSITY	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	9,606	11,093	11,615	11,615	11,615	11,615
TEXAS A & M UNIVERSITY	G | SPARTA AQUIFER | BRAZOS COUNTY	1,969	2,017	2,017	2,017	2,017	2,017
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	106	122	128	128	128	128
COUNTY-OTHER	G | QUEEN CITY AQUIFER | BRAZOS COUNTY	400	400	400	400	400	400
COUNTY-OTHER	G | SPARTA AQUIFER | BRAZOS COUNTY	437	447	447	447	447	447
MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	100	100	100	100	100	100
MANUFACTURING	G | SPARTA AQUIFER | BRAZOS COUNTY	556	1,793	1,790	1,792	1,792	1,792
MINING	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	147	170	178	178	178	178
STEAM ELECTRIC POWER	G | DANSBY POWER PLANT/BRYAN UTILITIES LAKE/RESERVOIR	85	85	85	85	85	85
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,322	1,322	1,322	1,322	1,322	1,322
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | BRAZOS COUNTY	12,500	12,500	12,500	12,500	12,500	12,500
IRRIGATION	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	350	349	347	346	345	344
IRRIGATION	G | GULF COAST AQUIFER | BRAZOS COUNTY	659	659	659	659	659	659
IRRIGATION	G | SPARTA AQUIFER | BRAZOS COUNTY	289	296	296	296	296	296
IRRIGATION	G | YEGUA-JACKSON AQUIFER | BRAZOS COUNTY	1,318	1,318	1,318	1,318	1,318	1,318
BRAZOS BASIN TOTAL EXISTING SUPPLY		**61,150**	**68,634**	**70,869**	**71,004**	**71,127**	**71,245**
BRAZOS COUNTY TOTAL EXISTING SUPPLY		**61,150**	**68,634**	**70,869**	**71,004**	**71,127**	**71,245**

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
BURLESON COUNTY							
BRAZOS BASIN							
CALDWELL	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	2,352	2,352	2,352	2,352	2,352	2,352
MILANO WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	250	234	232	232	241	245
SNOOK	G | SPARTA AQUIFER | BURLESON COUNTY	475	475	475	475	475	475
SOMERVILLE	G | SPARTA AQUIFER | BURLESON COUNTY	891	891	891	891	891	891
SOUTHWEST MILAM WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	205	184	154	167	167	158
DEANVILLE WSC	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	701	701	701	701	701	701
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	550	550	550	550	550	550
COUNTY-OTHER	G | QUEEN CITY AQUIFER | BURLESON COUNTY	323	323	323	323	323	323
MANUFACTURING	G | SPARTA AQUIFER | BURLESON COUNTY	139	139	139	139	139	139
MINING	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,508	1,508	1,508	1,508	1,508	1,508
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | BURLESON COUNTY	21,640	21,640	21,640	21,640	21,640	21,640
IRRIGATION	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	204	204	204	204	204	204
IRRIGATION	G | YEGUA-JACKSON AQUIFER | BURLESON COUNTY	1,118	1,118	1,118	1,118	1,118	1,118
BRAZOS BASIN TOTAL EXISTING SUPPLY		**30,356**	**30,319**	**30,287**	**30,300**	**30,309**	**30,304**
BURLESON COUNTY TOTAL EXISTING SUPPLY		**30,356**	**30,319**	**30,287**	**30,300**	**30,309**	**30,304**
CALLAHAN COUNTY							
BRAZOS BASIN							
BAIRD	G | BAIRD LAKE/RESERVOIR	230	230	230	230	230	230
BAIRD	G | FORT PHANTOM HILL LAKE/RESERVOIR	77	77	77	77	77	77
CLYDE	G | CLYDE LAKE/RESERVOIR	218	218	218	218	217	218
CLYDE	G | HUBBARD CREEK LAKE/RESERVOIR	240	240	240	240	239	240
POTOSI WSC	G | HUBBARD CREEK LAKE/RESERVOIR	5	5	5	5	5	5
COUNTY-OTHER	G | HUBBARD CREEK LAKE/RESERVOIR	34	35	35	35	35	35
COUNTY-OTHER	G | TRINITY AQUIFER | CALLAHAN COUNTY	332	334	337	337	337	338
MINING	G | TRINITY AQUIFER | CALLAHAN COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	368	368	368	368	368	368
IRRIGATION	G | TRINITY AQUIFER | CALLAHAN COUNTY	151	151	151	151	151	151
BRAZOS BASIN TOTAL EXISTING SUPPLY		**1,655**	**1,658**	**1,661**	**1,661**	**1,659**	**1,662**
COLORADO BASIN							
CLYDE	G | CLYDE LAKE/RESERVOIR	61	61	61	61	62	61
CLYDE	G | HUBBARD CREEK LAKE/RESERVOIR	67	67	67	67	68	67
CROSS PLAINS	G | TRINITY AQUIFER | CALLAHAN COUNTY	411	411	411	411	411	411
COLEMAN COUNTY SUD	F | BROWNWOOD LAKE/RESERVOIR	10	11	11	11	11	11
COLEMAN COUNTY SUD	F | COLEMAN LAKE/RESERVOIR	0	0	0	0	0	0
COLEMAN COUNTY SUD	F | HORDS CREEK LAKE/RESERVOIR	0	0	0	0	0	0
COUNTY-OTHER	G | HUBBARD CREEK LAKE/RESERVOIR	27	26	26	26	26	26

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
CALLAHAN COUNTY							
COLORADO BASIN							
COUNTY-OTHER	G | TRINITY AQUIFER | CALLAHAN COUNTY	255	253	250	250	250	249
MINING	G | TRINITY AQUIFER | CALLAHAN COUNTY	0	0	0	0	0	0
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	552	552	552	552	552	552
IRRIGATION	G | TRINITY AQUIFER | CALLAHAN COUNTY	591	591	591	591	591	591
COLORADO BASIN TOTAL EXISTING SUPPLY		**1,974**	**1,972**	**1,969**	**1,969**	**1,971**	**1,968**
CALLAHAN COUNTY TOTAL EXISTING SUPPLY		**3,629**	**3,630**	**3,630**	**3,630**	**3,630**	**3,630**
COMANCHE COUNTY							
BRAZOS BASIN							
COMANCHE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	680	671	662	618	605	586
DE LEON	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	307	305	301	283	279	272
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	9	9	9	9	9	9
COUNTY-OTHER	G | TRINITY AQUIFER | COMANCHE COUNTY	637	637	637	637	636	636
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	26	29	31	33	36	39
MANUFACTURING	G | TRINITY AQUIFER | COMANCHE COUNTY	10	10	10	10	10	10
MINING	G | TRINITY AQUIFER | COMANCHE COUNTY	26	26	26	26	26	26
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	3,774	3,774	3,774	3,774	3,774	3,774
IRRIGATION	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	4,968	3,616	3,474	4,557	3,988	3,511
IRRIGATION	G | TRINITY AQUIFER | COMANCHE COUNTY	21,597	21,597	21,597	21,597	21,597	21,597
BRAZOS BASIN TOTAL EXISTING SUPPLY		**32,034**	**30,674**	**30,521**	**31,544**	**30,960**	**30,460**
COLORADO BASIN							
COUNTY-OTHER	G | TRINITY AQUIFER | COMANCHE COUNTY	10	10	10	10	11	11
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	121	121	121	121	121	121
COLORADO BASIN TOTAL EXISTING SUPPLY		**131**	**131**	**131**	**131**	**132**	**132**
COMANCHE COUNTY TOTAL EXISTING SUPPLY		**32,165**	**30,805**	**30,652**	**31,675**	**31,092**	**30,592**
CORYELL COUNTY							
BRAZOS BASIN							
COPPERAS COVE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	8,816	8,694	8,577	8,114	7,989	7,811
ELM CREEK WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	57	56	56	53	52	51
FORT HOOD	G | BRAZOS RUN-OF-RIVER	5,324	5,209	5,030	4,850	4,671	4,491
GATESVILLE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	4,452	4,310	4,126	3,710	3,506	3,258
KEMPNER WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	428	429	438	440	445	451
CORYELL CITY WATER SUPPLY DISTRICT	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,012	1,110	1,225	1,315	1,419	1,522
MULTI-COUNTY WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	198	202	206	209	212	214
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	820	818	815	800	1,055	1,043
COUNTY-OTHER	G | TRINITY AQUIFER | CORYELL COUNTY	614	614	614	614	614	614
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	10	11	12	13	14	15

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
CORYELL COUNTY							
BRAZOS BASIN							
MINING	G | TRINITY AQUIFER | CORYELL COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,471	1,471	1,471	1,471	1,471	1,471
IRRIGATION	G | BRAZOS RUN-OF-RIVER	530	530	530	530	530	530
IRRIGATION	G | TRINITY AQUIFER | CORYELL COUNTY	240	240	240	240	240	240
BRAZOS BASIN TOTAL EXISTING SUPPLY		**23,972**	**23,694**	**23,340**	**22,359**	**22,218**	**21,711**
CORYELL COUNTY TOTAL EXISTING SUPPLY		**23,972**	**23,694**	**23,340**	**22,359**	**22,218**	**21,711**
EASTLAND COUNTY							
BRAZOS BASIN							
CISCO	G | CISCO LAKE/RESERVOIR	943	940	937	934	931	928
EASTLAND	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	8
EASTLAND	G | LEON LAKE/RESERVOIR	3,194	3,194	3,194	3,194	3,194	3,186
GORMAN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	169	168	166	156	153	149
RANGER	G | LEON LAKE/RESERVOIR	2,025	2,025	2,025	2,025	2,025	2,025
RISING STAR	G | TRINITY AQUIFER | EASTLAND COUNTY	100	100	100	100	100	100
STEPHENS REGIONAL SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	21	22	22	22	21	21
COUNTY-OTHER	G | CISCO LAKE/RESERVOIR	140	140	140	140	140	140
COUNTY-OTHER	G | CLYDE LAKE/RESERVOIR	210	210	210	210	210	210
COUNTY-OTHER	G | LEON LAKE/RESERVOIR	114	114	114	114	114	114
COUNTY-OTHER	G | TRINITY AQUIFER | EASTLAND COUNTY	109	109	109	109	109	109
MANUFACTURING	G | BRAZOS RUN-OF-RIVER	110	115	120	122	129	134
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,088	1,088	1,088	1,088	1,088	1,088
IRRIGATION	G | BRAZOS RUN-OF-RIVER	77	76	76	76	75	75
IRRIGATION	G | TRINITY AQUIFER | EASTLAND COUNTY	4,284	4,284	4,284	4,284	4,284	4,284
BRAZOS BASIN TOTAL EXISTING SUPPLY		**12,584**	**12,585**	**12,585**	**12,574**	**12,573**	**12,571**
COLORADO BASIN							
COUNTY-OTHER	G | CISCO LAKE/RESERVOIR	7	7	7	7	7	7
COUNTY-OTHER	G | CLYDE LAKE/RESERVOIR	11	11	11	11	11	11
COUNTY-OTHER	G | LEON LAKE/RESERVOIR	6	6	6	6	6	6
COUNTY-OTHER	G | TRINITY AQUIFER | EASTLAND COUNTY	6	6	6	6	6	6
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	39	39	39	39	39	39
IRRIGATION	G | TRINITY AQUIFER | EASTLAND COUNTY	220	220	220	220	220	220
COLORADO BASIN TOTAL EXISTING SUPPLY		**289**	**289**	**289**	**289**	**289**	**289**
EASTLAND COUNTY TOTAL EXISTING SUPPLY		**12,873**	**12,874**	**12,874**	**12,863**	**12,862**	**12,860**
ERATH COUNTY							
BRAZOS BASIN							
DUBLIN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	521	519	518	517	516	514
STEPHENVILLE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,862	1,847	1,826	1,717	1,690	1,646
STEPHENVILLE	G | TRINITY AQUIFER | ERATH COUNTY	4,319	4,313	4,306	4,300	4,293	4,284

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
ERATH COUNTY							
BRAZOS BASIN							
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	72	72	72	72	72	72
COUNTY-OTHER	G | PALO PINTO LAKE/RESERVOIR	75	75	75	75	75	75
COUNTY-OTHER	G | TRINITY AQUIFER | ERATH COUNTY	3,210	3,210	3,210	3,210	3,209	3,209
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	5	7	8	9	10	12
MANUFACTURING	G | TRINITY AQUIFER | ERATH COUNTY	75	81	88	94	102	111
MINING	G | TRINITY AQUIFER | ERATH COUNTY	511	511	511	511	511	511
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	6,702	6,702	6,702	6,702	6,702	6,702
IRRIGATION	G | BRAZOS RUN-OF-RIVER	101	100	100	99	99	98
IRRIGATION	G | TRINITY AQUIFER | ERATH COUNTY	6,923	6,923	6,923	6,923	6,923	6,923
BRAZOS BASIN TOTAL EXISTING SUPPLY		**24,376**	**24,360**	**24,339**	**24,229**	**24,202**	**24,157**
ERATH COUNTY TOTAL EXISTING SUPPLY		**24,376**	**24,360**	**24,339**	**24,229**	**24,202**	**24,157**
FALLS COUNTY							
BRAZOS BASIN							
BELL-MILAM FALLS WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	269	265	253	234	228	223
BELL-MILAM FALLS WSC	G | TRINITY AQUIFER | BELL COUNTY	330	324	309	287	279	273
BRUCEVILLE-EDDY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	3	3	3	3	2	2
BRUCEVILLE-EDDY	G | TRINITY AQUIFER | MCLENNAN COUNTY	1	1	1	1	1	1
LOTT	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	117	117	117	117	117	117
LOTT	G | TRINITY AQUIFER | BELL COUNTY	117	117	117	117	117	117
MARLIN	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,200	1,200	1,200	1,200	1,200	1,200
MARLIN	G | BRAZOS RUN-OF-RIVER	1,550	1,550	1,550	1,550	1,550	1,550
ROSEBUD	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	500	500	500	500	500	500
ROSEBUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	100	100	100	100	100	100
TRI-COUNTY SUD	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	237	236	231	223	221	220
TRI-COUNTY SUD	G | TRINITY AQUIFER | FALLS COUNTY	67	67	65	63	63	62
WEST BRAZOS WSC	G | TRINITY AQUIFER | FALLS COUNTY	6	6	5	5	4	4
WEST BRAZOS WSC	G | TRINITY AQUIFER | MCLENNAN COUNTY	123	121	118	113	112	110
GOLINDA	G | CARRIZO-WILCOX AQUIFER | FALLS COUNTY	39	38	38	35	36	37
GOLINDA	G | TRINITY AQUIFER | FALLS COUNTY	8	8	8	7	8	8
EAST BELL WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	29	26	23	20	19	17
EAST BELL WSC	G | TRINITY AQUIFER | BELL COUNTY	93	84	74	65	60	55
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	45	45	45	45	45	45
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | FALLS COUNTY	570	567	565	564	560	556
MANUFACTURING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
MINING	G | TRINITY AQUIFER | FALLS COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,878	1,878	1,878	1,878	1,878	1,878

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
FALLS COUNTY							
BRAZOS BASIN							
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | FALLS COUNTY	6,331	6,331	6,331	6,331	6,331	6,331
IRRIGATION	G | BRAZOS RUN-OF-RIVER	174	174	174	174	174	174
BRAZOS BASIN TOTAL EXISTING SUPPLY		**13,787**	**13,758**	**13,705**	**13,632**	**13,605**	**13,580**
FALLS COUNTY TOTAL EXISTING SUPPLY		**13,787**	**13,758**	**13,705**	**13,632**	**13,605**	**13,580**
FISHER COUNTY							
BRAZOS BASIN							
BITTER CREEK WSC	G | DOCKUM AQUIFER | FISHER COUNTY	88	85	83	82	80	79
BITTER CREEK WSC	G | DOCKUM AQUIFER | NOLAN COUNTY	188	183	178	175	171	169
ROBY	G | DOCKUM AQUIFER | NOLAN COUNTY	350	350	350	350	350	350
ROBY	G | SEYMOUR AQUIFER | FISHER COUNTY	34	34	34	34	34	34
ROTAN	F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM	56	73	64	58	52	47
ROTAN	F | DIRECT REUSE	6	8	7	7	6	6
ROTAN	F | OGALLALA AQUIFER | MARTIN COUNTY	1	2	1	2	1	1
ROTAN	F | PECOS VALLEY AQUIFER | WARD COUNTY	26	37	33	30	28	25
COUNTY-OTHER	G | SEYMOUR AQUIFER | FISHER COUNTY	156	156	156	156	156	156
MANUFACTURING	F | PECOS VALLEY AQUIFER | WARD COUNTY	4	4	4	4	4	4
MANUFACTURING	G | DOCKUM AQUIFER | FISHER COUNTY	199	199	199	199	199	199
MANUFACTURING	G | HUBBARD CREEK LAKE/RESERVOIR	2	2	2	2	2	2
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	634	634	634	634	634	634
IRRIGATION	G | BLAINE AQUIFER | FISHER COUNTY	3,515	3,515	3,515	3,515	3,515	3,515
IRRIGATION	G | BRAZOS RUN-OF-RIVER	17	17	17	17	17	17
IRRIGATION	G | SEYMOUR AQUIFER | FISHER COUNTY	1,758	1,758	1,758	1,758	1,758	1,758
BRAZOS BASIN TOTAL EXISTING SUPPLY		**7,034**	**7,057**	**7,035**	**7,023**	**7,007**	**6,996**
FISHER COUNTY TOTAL EXISTING SUPPLY		**7,034**	**7,057**	**7,035**	**7,023**	**7,007**	**6,996**
GRIMES COUNTY							
BRAZOS BASIN							
NAVASOTA	G | GULF COAST AQUIFER | GRIMES COUNTY	2,089	2,089	2,089	2,089	2,065	2,020
WICKSON CREEK SUD	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	456	397	337	288	246	213
WICKSON CREEK SUD	G | SPARTA AQUIFER | BRAZOS COUNTY	313	296	273	250	229	209
DOBBIN-PLANTERSVILLE WSC	G | GULF COAST AQUIFER | GRIMES COUNTY	44	49	53	58	62	66
G & W WSC	G | GULF COAST AQUIFER | GRIMES COUNTY	385	501	591	688	769	841
COUNTY-OTHER	G | GULF COAST AQUIFER | GRIMES COUNTY	1,084	1,075	1,068	1,057	1,047	1,034
MANUFACTURING	G | BRAZOS RUN-OF-RIVER	100	100	100	100	100	100
MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	3	3	3	3	4	5
MANUFACTURING	G | GULF COAST AQUIFER | GRIMES COUNTY	412	412	411	411	435	480
MINING		0	0	0	0	0	0
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	2,520	2,460	2,399	2,339	2,278	2,218

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
GRIMES COUNTY							
BRAZOS BASIN							
STEAM ELECTRIC POWER	G | GIBBONS CREEK LAKE/RESERVOIR	9,740	9,740	9,740	9,740	9,740	9,740
STEAM ELECTRIC POWER	G | GULF COAST AQUIFER | GRIMES COUNTY	5	5	5	5	5	5
STEAM ELECTRIC POWER	H | LIVINGSTON-WALLISVILLE LAKE/RESERVOIR SYSTEM	4,704	4,704	4,704	4,704	4,704	4,704
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	873	873	873	873	873	873
BRAZOS BASIN TOTAL EXISTING SUPPLY		**22,728**	**22,704**	**22,646**	**22,605**	**22,557**	**22,508**
SAN JACINTO BASIN							
DOBBIN-PLANTERSVILLE WSC	G | GULF COAST AQUIFER | GRIMES COUNTY	138	156	170	185	198	210
G & W WSC	G | GULF COAST AQUIFER | GRIMES COUNTY	51	67	78	91	102	111
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | GRIMES COUNTY	37	37	37	37	37	37
COUNTY-OTHER	G | GULF COAST AQUIFER | GRIMES COUNTY	554	544	538	526	517	512
MINING	G | GULF COAST AQUIFER | GRIMES COUNTY	33	33	33	33	33	33
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,080	1,054	1,028	1,002	976	950
STEAM ELECTRIC POWER	G | GULF COAST AQUIFER | GRIMES COUNTY	30	30	30	30	30	30
STEAM ELECTRIC POWER	H | LIVINGSTON-WALLISVILLE LAKE/RESERVOIR SYSTEM	2,016	2,016	2,016	2,016	2,016	2,016
LIVESTOCK	G | SAN JACINTO LIVESTOCK LOCAL SUPPLY	370	370	370	370	370	370
SAN JACINTO BASIN TOTAL EXISTING SUPPLY		**4,309**	**4,307**	**4,300**	**4,290**	**4,279**	**4,269**
TRINITY BASIN							
WICKSON CREEK SUD	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	62	54	46	39	34	29
WICKSON CREEK SUD	G | SPARTA AQUIFER | BRAZOS COUNTY	43	40	38	34	32	29
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | GRIMES COUNTY	136	136	136	136	136	136
COUNTY-OTHER	G | GULF COAST AQUIFER | GRIMES COUNTY	210	229	242	265	284	302
MINING		0	0	0	0	0	0
LIVESTOCK	G | TRINITY LIVESTOCK LOCAL SUPPLY	260	260	260	260	260	260
TRINITY BASIN TOTAL EXISTING SUPPLY		**711**	**719**	**722**	**734**	**746**	**756**
GRIMES COUNTY TOTAL EXISTING SUPPLY		**27,748**	**27,730**	**27,668**	**27,629**	**27,582**	**27,533**
HAMILTON COUNTY							
BRAZOS BASIN							
HAMILTON	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	673	665	654	599	584	562
HICO	G | TRINITY AQUIFER | HAMILTON COUNTY	383	383	383	383	383	383
MULTI-COUNTY WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	47	43	39	36	33	31
COUNTY-OTHER	G | TRINITY AQUIFER | HAMILTON COUNTY	572	572	572	572	572	572
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	3	4	5	6	7	8
MANUFACTURING	G | TRINITY AQUIFER | HAMILTON COUNTY	3	3	3	3	3	3
MINING	G | TRINITY AQUIFER | HAMILTON COUNTY	13	13	13	13	13	13
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,677	1,677	1,677	1,677	1,677	1,677
IRRIGATION	G | BRAZOS RUN-OF-RIVER	54	53	51	50	49	47

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
HAMILTON COUNTY							
BRAZOS BASIN							
IRRIGATION	G | TRINITY AQUIFER | HAMILTON COUNTY	383	383	383	383	383	383
BRAZOS BASIN TOTAL EXISTING SUPPLY		**3,808**	**3,796**	**3,780**	**3,722**	**3,704**	**3,679**
HAMILTON COUNTY TOTAL EXISTING SUPPLY		**3,808**	**3,796**	**3,780**	**3,722**	**3,704**	**3,679**
HASKELL COUNTY							
BRAZOS BASIN							
HASKELL	G | MILLERS CREEK LAKE/RESERVOIR	461	383	305	227	149	71
RULE	G | MILLERS CREEK LAKE/RESERVOIR	33	27	22	16	11	5
RULE	G | SEYMOUR AQUIFER | HASKELL COUNTY	128	123	118	118	121	121
STAMFORD	G | STAMFORD LAKE/RESERVOIR	13	12	12	12	12	11
COUNTY-OTHER	G | MILLERS CREEK LAKE/RESERVOIR	245	203	162	120	79	38
COUNTY-OTHER	G | SEYMOUR AQUIFER | HASKELL COUNTY	130	125	119	120	123	123
COUNTY-OTHER	G | STAMFORD LAKE/RESERVOIR	160	160	160	160	160	160
MINING	G | SEYMOUR AQUIFER | HASKELL COUNTY	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | STAMFORD LAKE/RESERVOIR	2,200	2,200	2,200	2,200	2,200	2,200
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	676	676	676	676	676	676
IRRIGATION	G | SEYMOUR AQUIFER | HASKELL COUNTY	45,619	44,034	41,843	42,007	43,087	43,087
BRAZOS BASIN TOTAL EXISTING SUPPLY		**49,665**	**47,943**	**45,617**	**45,656**	**46,618**	**46,492**
HASKELL COUNTY TOTAL EXISTING SUPPLY		**49,665**	**47,943**	**45,617**	**45,656**	**46,618**	**46,492**
HILL COUNTY							
BRAZOS BASIN							
BRANDON-IRENE WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	43	48	46	46	45	44
BRANDON-IRENE WSC	G | TRINITY AQUIFER | HILL COUNTY	31	31	31	30	30	29
FILES VALLEY WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	264	285	268	254	240	225
HILLSBORO	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	3,833	3,633	3,631	3,630	3,629	3,628
ITASCA	G | TRINITY AQUIFER | HILL COUNTY	224	224	224	225	225	224
JOHNSON COUNTY SUD	C | TRWD LAKE/RESERVOIR SYSTEM	32	26	22	17	14	12
JOHNSON COUNTY SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	16	13	12	10	8	7
JOHNSON COUNTY SUD	G | TRINITY AQUIFER | JOHNSON COUNTY	10	9	9	8	6	6
PARKER WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	24	21	18	16	14	13
PARKER WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	20	17	15	13	12	11
WHITE BLUFF COMMUNITY WS	G | TRINITY AQUIFER | HILL COUNTY	600	600	600	600	600	600
WHITNEY	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0
WHITNEY	G | TRINITY AQUIFER | HILL COUNTY	600	600	600	600	600	600
WOODROW-OSCEOLA WSC	G | TRINITY AQUIFER | HILL COUNTY	605	605	605	605	605	605
HILL COUNTY WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	210	230	230	230	230	230
HILL COUNTY WSC	G | TRINITY AQUIFER | HILL COUNTY	642	642	642	642	642	642

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
HILL COUNTY							
BRAZOS BASIN							
COUNTY-OTHER	C | NAVARRO MILLS LAKE/RESERVOIR	358	243	232	215	193	171
COUNTY-OTHER	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	72	49	46	43	39	34
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	229	237	237	238	239	240
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	53	53	53	53	53	53
COUNTY-OTHER	G | WOODBINE AQUIFER | HILL COUNTY	585	580	576	571	567	562
MANUFACTURING	G | WOODBINE AQUIFER | HILL COUNTY	45	50	55	60	65	70
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,000	952	843	901	878	855
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	944	944	944	944	944	944
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | HILL COUNTY	205	205	205	205	205	205
IRRIGATION	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,000	1,000	1,000	1,000	1,000	1,000
IRRIGATION	G | BRAZOS RUN-OF-RIVER	9	9	9	9	9	9
BRAZOS BASIN TOTAL EXISTING SUPPLY		**11,654**	**11,306**	**11,153**	**11,165**	**11,092**	**11,019**
TRINITY BASIN							
BRANDON-IRENE WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	158	172	169	166	162	158
BRANDON-IRENE WSC	G | TRINITY AQUIFER | HILL COUNTY	115	113	112	110	108	106
FILES VALLEY WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	619	668	636	602	565	528
HUBBARD	C | NAVARRO MILLS LAKE/RESERVOIR	126	82	76	71	63	57
HUBBARD	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	25	17	15	14	13	11
HUBBARD	G | TRINITY AQUIFER | HILL COUNTY	29	29	29	29	29	29
ITASCA	G | TRINITY AQUIFER | HILL COUNTY	17	17	17	16	16	17
JOHNSON COUNTY SUD	C | TRWD LAKE/RESERVOIR SYSTEM	7	5	4	3	3	3
JOHNSON COUNTY SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	3	3	2	2	2	2
JOHNSON COUNTY SUD	G | TRINITY AQUIFER | JOHNSON COUNTY	2	2	2	1	1	1
PARKER WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	5	5	4	3	3	3
PARKER WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	4	4	3	3	2	2
COUNTY-OTHER	C | NAVARRO MILLS LAKE/RESERVOIR	45	30	29	27	24	21
COUNTY-OTHER	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	9	6	6	5	5	4
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	29	30	31	31	31	31
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	7	7	7	7	7	7
COUNTY-OTHER	G | WOODBINE AQUIFER | HILL COUNTY	73	73	72	72	71	71
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	32	124	50	56	63
MINING	G | TRINITY AQUIFER | HILL COUNTY	31	31	31	31	31	31
LIVESTOCK	G | TRINITY LIVESTOCK LOCAL SUPPLY	240	240	240	240	240	240
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | HILL COUNTY	200	200	200	200	200	200

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
HILL COUNTY							
TRINITY BASIN TOTAL EXISTING SUPPLY		**1,744**	**1,766**	**1,809**	**1,683**	**1,632**	**1,585**
HILL COUNTY TOTAL EXISTING SUPPLY		**13,398**	**13,072**	**12,962**	**12,848**	**12,724**	**12,604**
HOOD COUNTY							
BRAZOS BASIN							
ACTON MUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	5,724	5,738	5,734	5,720	5,708	5,698
ACTON MUD	G | TRINITY AQUIFER | HOOD COUNTY	1,460	1,464	1,463	1,459	1,456	1,454
GRANBURY	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,400	1,400	1,400	1,400	1,400	1,400
GRANBURY	G | TRINITY AQUIFER | HOOD COUNTY	706	706	706	683	683	683
OAK TRAIL SHORES SUBDIVISION	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	571	571	571	571	571	571
TOLAR	G | TRINITY AQUIFER | HOOD COUNTY	165	165	165	165	165	165
CRESSON	G | TRINITY AQUIFER | HOOD COUNTY	35	44	45	42	39	35
CRESSON	G | WOODBINE AQUIFER | JOHNSON COUNTY	13	14	15	15	14	14
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	335	335	335	335	335	335
COUNTY-OTHER	G | TRINITY AQUIFER | HOOD COUNTY	1,517	1,500	1,486	1,474	1,457	1,435
MANUFACTURING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	10,000	10,000	10,000	10,000	10,000	10,000
MANUFACTURING	G | TRINITY AQUIFER | HOOD COUNTY	25	25	25	25	25	25
MINING	G | TRINITY AQUIFER | HOOD COUNTY	1,224	1,224	1,224	1,224	1,224	1,224
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	43,447	43,447	43,447	43,447	43,271	40,337
STEAM ELECTRIC POWER	G | TRINITY AQUIFER | HOOD COUNTY	150	150	150	150	150	150
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	520	520	520	520	520	520
IRRIGATION	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	4,060	4,060	4,060	4,060	4,060	4,060
IRRIGATION	G | TRINITY AQUIFER | HOOD COUNTY	3,470	3,470	3,470	3,470	3,470	3,470
BRAZOS BASIN TOTAL EXISTING SUPPLY		**74,822**	**74,833**	**74,816**	**74,760**	**74,548**	**71,576**
TRINITY BASIN							
CRESSON	G | TRINITY AQUIFER | HOOD COUNTY	12	15	16	18	18	19
CRESSON	G | WOODBINE AQUIFER | JOHNSON COUNTY	4	5	5	5	5	4
COUNTY-OTHER	G | TRINITY AQUIFER | HOOD COUNTY	3	5	5	3	5	11
MINING		0	0	0	0	0	0
LIVESTOCK	G | TRINITY LIVESTOCK LOCAL SUPPLY	2	2	2	2	2	2
TRINITY BASIN TOTAL EXISTING SUPPLY		**21**	**27**	**28**	**28**	**30**	**36**
HOOD COUNTY TOTAL EXISTING SUPPLY		**74,843**	**74,860**	**74,844**	**74,788**	**74,578**	**71,612**
JOHNSON COUNTY							
BRAZOS BASIN							
ACTON MUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	112	98	102	116	128	138
ACTON MUD	G | TRINITY AQUIFER | HOOD COUNTY	29	25	26	30	33	35
BETHESDA WSC	C | TRINITY AQUIFER | TARRANT COUNTY	9	9	9	9	9	10
BETHESDA WSC	C | TRWD LAKE/RESERVOIR SYSTEM	43	45	48	52	58	63
BETHESDA WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	59	59	60	61	61	62
BURLESON	C | TRWD LAKE/RESERVOIR SYSTEM	4	4	4	4	4	4

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
JOHNSON COUNTY							
BRAZOS BASIN							
CLEBURNE	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	5,300	5,235	5,039	4,864	4,691	4,501
CLEBURNE	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0
CLEBURNE	G | DIRECT REUSE - CLEBURNE	0	0	0	0	0	0
CLEBURNE	G | PAT CLEBURNE LAKE/RESERVOIR	3,801	3,412	3,148	2,904	2,662	2,402
CLEBURNE	G | TRINITY AQUIFER | JOHNSON COUNTY	0	0	0	0	0	0
GODLEY	G | TRINITY AQUIFER | JOHNSON COUNTY	159	159	159	159	159	159
JOHNSON COUNTY SUD	C | TRWD LAKE/RESERVOIR SYSTEM	1,710	1,567	1,402	1,175	1,062	961
JOHNSON COUNTY SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	827	787	744	694	639	576
JOHNSON COUNTY SUD	G | TRINITY AQUIFER | JOHNSON COUNTY	518	519	520	520	521	522
JOSHUA	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	577	676	784	906	1,045	1,194
KEENE	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	156	157	157	156	156	156
KEENE	G | TRINITY AQUIFER | JOHNSON COUNTY	59	59	59	59	59	48
PARKER WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	236	239	242	244	246	247
PARKER WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	192	195	197	199	201	201
RIO VISTA	G | TRINITY AQUIFER | JOHNSON COUNTY	249	249	249	249	249	249
CRESSON	G | TRINITY AQUIFER | HOOD COUNTY	7	7	8	11	14	14
CRESSON	G | WOODBINE AQUIFER | JOHNSON COUNTY	3	3	2	2	3	3
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	438	438	438	438	438	438
COUNTY-OTHER	G | TRINITY AQUIFER | JOHNSON COUNTY	395	558	725	723	744	783
MANUFACTURING	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	6	72	270	446	620	811
MANUFACTURING	G | PAT CLEBURNE LAKE/RESERVOIR	1,037	1,357	1,552	1,727	1,900	2,091
MANUFACTURING	G | TRINITY AQUIFER | JOHNSON COUNTY	1,534	1,534	1,534	1,534	1,534	1,534
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	10	10	10	10	10	10
MINING	G | TRINITY AQUIFER | JOHNSON COUNTY	1,429	1,429	1,429	1,431	1,430	1,430
STEAM ELECTRIC POWER	G | DIRECT REUSE - CLEBURNE	1,344	1,344	1,344	1,344	1,344	1,344
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,290	1,290	1,290	1,290	1,290	1,290
IRRIGATION	G | PAT CLEBURNE LAKE/RESERVOIR	102	100	99	97	96	94
IRRIGATION	G | TRINITY AQUIFER | JOHNSON COUNTY	22	22	22	22	22	22
IRRIGATION	G | WOODBINE AQUIFER | JOHNSON COUNTY	66	66	66	66	66	66
BRAZOS BASIN TOTAL EXISTING SUPPLY		**21,723**	**21,724**	**21,738**	**21,542**	**21,494**	**21,458**
TRINITY BASIN							
FORT WORTH	C | DIRECT REUSE	0	0	0	2	3	3
FORT WORTH	C | TRINITY INDIRECT REUSE	0	0	0	222	343	417
FORT WORTH	C | TRWD LAKE/RESERVOIR SYSTEM	0	0	0	371	527	586
MANSFIELD	C | TRWD LAKE/RESERVOIR SYSTEM	537	677	766	786	868	939
ALVARADO	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	2,241	2,241	2,241	2,241	2,241	2,241

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
JOHNSON COUNTY							
TRINITY BASIN							
ALVARADO	G | TRINITY AQUIFER | JOHNSON COUNTY	310	310	310	310	310	310
BETHANY WSC	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,120	1,120	1,120	1,120	1,120	1,120
BETHANY WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	433	433	433	433	433	433
BETHESDA WSC	C | TRINITY AQUIFER | TARRANT COUNTY	183	185	187	189	191	194
BETHESDA WSC	C | TRWD LAKE/RESERVOIR SYSTEM	858	916	962	1,060	1,168	1,270
BETHESDA WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	1,190	1,202	203	37	0	0
BURLESON	C | TRWD LAKE/RESERVOIR SYSTEM	3,869	3,982	4,016	3,836	3,765	3,769
CROWLEY	C | TRINITY AQUIFER | TARRANT COUNTY	1	2	2	2	2	2
CROWLEY	C | TRWD LAKE/RESERVOIR SYSTEM	7	8	10	11	10	11
GRANDVIEW	G | WOODBINE AQUIFER | JOHNSON COUNTY	369	369	369	369	369	369
JOHNSON COUNTY SUD	C | TRWD LAKE/RESERVOIR SYSTEM	4,718	4,325	3,867	3,242	2,929	2,652
JOHNSON COUNTY SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	2,282	2,173	2,053	1,917	1,761	1,594
JOHNSON COUNTY SUD	G | TRINITY AQUIFER | JOHNSON COUNTY	1,430	1,432	1,434	1,437	1,438	1,440
JOSHUA	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	374	439	508	588	677	774
KEENE	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	964	963	963	964	964	964
KEENE	G | TRINITY AQUIFER | JOHNSON COUNTY	362	362	362	362	362	300
MOUNTAIN PEAK SUD	G | TRINITY AQUIFER | JOHNSON COUNTY	1,413	1,413	1,413	1,413	1,413	1,413
PARKER WSC	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	71	71	72	73	73	73
PARKER WSC	G | TRINITY AQUIFER | JOHNSON COUNTY	58	58	59	59	59	60
VENUS	C | TRWD LAKE/RESERVOIR SYSTEM	269	274	262	260	261	268
VENUS	G | WOODBINE AQUIFER | JOHNSON COUNTY	211	211	211	211	211	211
CRESSON	G | TRINITY AQUIFER | HOOD COUNTY	14	16	19	22	25	30
CRESSON	G | WOODBINE AQUIFER | JOHNSON COUNTY	5	5	6	6	6	7
COUNTY-OTHER	G | TRINITY AQUIFER | JOHNSON COUNTY	726	563	396	398	377	338
COUNTY-OTHER	G | WOODBINE AQUIFER | JOHNSON COUNTY	141	141	141	141	141	141
MANUFACTURING	C | TRWD LAKE/RESERVOIR SYSTEM	2	2	2	2	2	2
MANUFACTURING	G | TRINITY AQUIFER | JOHNSON COUNTY	29	29	29	29	29	29
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	10	10	10	10	10	10
MINING	G | TRINITY AQUIFER | JOHNSON COUNTY	1,413	1,413	1,413	1,411	1,412	1,412
LIVESTOCK	G | TRINITY LIVESTOCK LOCAL SUPPLY	323	323	323	323	323	323
IRRIGATION	G | PAT CLEBURNE LAKE/RESERVOIR	100	99	97	96	94	93
IRRIGATION	G | TRINITY AQUIFER | JOHNSON COUNTY	2	2	2	2	2	2
IRRIGATION	G | WOODBINE AQUIFER | JOHNSON COUNTY	7	7	7	7	7	7
TRINITY BASIN TOTAL EXISTING SUPPLY		**26,042**	**25,776**	**24,268**	**23,962**	**23,926**	**23,807**
JOHNSON COUNTY TOTAL EXISTING SUPPLY		**47,765**	**47,500**	**46,006**	**45,504**	**45,420**	**45,265**

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
JONES COUNTY							
BRAZOS BASIN							
ABILENE	F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION	210	206	200	194	189	183
ABILENE	G | FORT PHANTOM HILL LAKE/RESERVOIR	433	429	420	412	405	398
ABILENE	G | HUBBARD CREEK LAKE/RESERVOIR	318	151	139	128	115	101
ABILENE	G | KIRBY LAKE/RESERVOIR	0	0	0	0	0	0
ANSON	G | ANSON NORTH LAKE/RESERVOIR	0	0	0	0	0	0
ANSON	G | HUBBARD CREEK LAKE/RESERVOIR	1,011	1,011	1,011	1,011	1,011	1,011
HAMLIN	G | CITY OF HAMLIN LAKE/RESERVOIR	0	0	0	0	0	0
HAMLIN	G | HUBBARD CREEK LAKE/RESERVOIR	765	765	765	765	765	765
HAWLEY	G | HUBBARD CREEK LAKE/RESERVOIR	75	76	76	77	79	81
HAWLEY WSC	G | HUBBARD CREEK LAKE/RESERVOIR	459	457	457	455	453	449
STAMFORD	G | STAMFORD LAKE/RESERVOIR	1,196	1,197	1,197	1,197	1,197	1,198
COUNTY-OTHER	G | SEYMOUR AQUIFER | JONES COUNTY	264	264	264	264	264	264
COUNTY-OTHER	G | STAMFORD LAKE/RESERVOIR	89	89	89	89	89	89
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | HUBBARD CREEK LAKE/RESERVOIR	8,247	11,837	11,837	11,837	11,837	11,837
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	853	853	853	853	853	853
IRRIGATION	G | SEYMOUR AQUIFER | JONES COUNTY	2,610	2,610	2,610	2,610	2,610	2,610
BRAZOS BASIN TOTAL EXISTING SUPPLY		**16,530**	**19,945**	**19,918**	**19,892**	**19,867**	**19,839**
JONES COUNTY TOTAL EXISTING SUPPLY		**16,530**	**19,945**	**19,918**	**19,892**	**19,867**	**19,839**
KENT COUNTY							
BRAZOS BASIN							
JAYTON	G | SEYMOUR AQUIFER | KENT COUNTY	0	0	0	0	0	0
COUNTY-OTHER	G | SEYMOUR AQUIFER | KENT COUNTY	45	45	45	45	45	45
MINING	G | SEYMOUR AQUIFER | KENT COUNTY	459	459	459	459	459	459
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	320	320	320	320	320	320
IRRIGATION	G | DOCKUM AQUIFER | KENT COUNTY	1,313	1,313	1,313	1,313	1,313	1,313
IRRIGATION	G | SEYMOUR AQUIFER | KENT COUNTY	131	131	131	131	131	131
BRAZOS BASIN TOTAL EXISTING SUPPLY		**2,268**	**2,268**	**2,268**	**2,268**	**2,268**	**2,268**
KENT COUNTY TOTAL EXISTING SUPPLY		**2,268**	**2,268**	**2,268**	**2,268**	**2,268**	**2,268**
KNOX COUNTY							
BRAZOS BASIN							
KNOX CITY	G | BLAINE AQUIFER | KNOX COUNTY	6	6	6	6	6	6
KNOX CITY	G | MILLERS CREEK LAKE/RESERVOIR	188	156	124	93	61	29
MUNDAY	G | BLAINE AQUIFER | KNOX COUNTY	7	7	7	7	7	7
MUNDAY	G | MILLERS CREEK LAKE/RESERVOIR	194	161	128	95	63	30
COUNTY-OTHER	G | BLAINE AQUIFER | KNOX COUNTY	33	33	33	33	33	33
COUNTY-OTHER	G | BRAZOS RUN-OF-RIVER	34	34	34	34	34	34
COUNTY-OTHER	G | MILLERS CREEK LAKE/RESERVOIR	85	71	56	42	28	13
COUNTY-OTHER	G | SEYMOUR AQUIFER | KNOX COUNTY	62	62	62	62	62	62
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	790	790	790	790	790	790

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
KNOX COUNTY							
BRAZOS BASIN							
IRRIGATION	G | BLAINE AQUIFER | KNOX COUNTY	81	81	81	72	81	81
IRRIGATION	G | LAKE DAVIS LAKE/RESERVOIR	160	142	124	106	88	70
IRRIGATION	G | SEYMOUR AQUIFER | KNOX COUNTY	32,493	31,705	30,239	28,520	29,457	28,779
BRAZOS BASIN TOTAL EXISTING SUPPLY		**34,133**	**33,248**	**31,684**	**29,860**	**30,710**	**29,934**
RED BASIN							
COUNTY-OTHER	G | BLAINE AQUIFER | KNOX COUNTY	6	6	6	6	6	6
COUNTY-OTHER	G | MILLERS CREEK LAKE/RESERVOIR	10	8	7	5	3	2
COUNTY-OTHER	G | SEYMOUR AQUIFER | KNOX COUNTY	7	7	7	7	7	7
MINING	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
LIVESTOCK	G | RED LIVESTOCK LOCAL SUPPLY	197	197	197	197	197	197
IRRIGATION	G | BLAINE AQUIFER | KNOX COUNTY	92	92	92	101	92	92
IRRIGATION	G | SEYMOUR AQUIFER | KNOX COUNTY	5,086	2,490	0	0	1,473	2,151
RED BASIN TOTAL EXISTING SUPPLY		**5,398**	**2,800**	**309**	**316**	**1,778**	**2,455**
KNOX COUNTY TOTAL EXISTING SUPPLY		**39,531**	**36,048**	**31,993**	**30,176**	**32,488**	**32,389**
LAMPASAS COUNTY							
BRAZOS BASIN							
COPPERAS COVE	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	260	339	371	385	397	398
KEMPNER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	195	209	225	240	254	267
KEMPNER WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,189	1,143	1,087	1,041	994	950
LAMPASAS	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,144	1,130	1,116	1,103	1,086	1,068
LOMETA	G | ELLENBURGER-SAN SABA AQUIFER | LAMPASAS COUNTY	9	13	13	13	13	13
LOMETA	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	56	61	64	69	73	76
COUNTY-OTHER	G | MARBLE FALLS AQUIFER | LAMPASAS COUNTY	6	6	6	6	6	6
COUNTY-OTHER	G | TRINITY AQUIFER | LAMPASAS COUNTY	305	299	294	289	284	280
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	137	151	165	178	195	213
MANUFACTURING	G | BRAZOS RUN-OF-RIVER	48	48	48	48	48	48
MINING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	25	25	25	25	25	25
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	783	783	783	783	783	783
IRRIGATION	G | BRAZOS RUN-OF-RIVER	103	103	103	103	103	103
IRRIGATION	G | MARBLE FALLS AQUIFER | LAMPASAS COUNTY	2	2	2	2	2	2
IRRIGATION	G | TRINITY AQUIFER | LAMPASAS COUNTY	40	40	40	40	40	40
BRAZOS BASIN TOTAL EXISTING SUPPLY		**4,302**	**4,352**	**4,342**	**4,325**	**4,303**	**4,272**
COLORADO BASIN							
LOMETA	G | ELLENBURGER-SAN SABA AQUIFER | LAMPASAS COUNTY	4	0	0	0	0	0
LOMETA	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	110	119	126	134	142	150
COUNTY-OTHER	G | TRINITY AQUIFER | LAMPASAS COUNTY	66	72	77	82	87	91
MINING		0	0	0	0	0	0
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	449	449	449	449	449	449

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
LAMPASAS COUNTY							
COLORADO BASIN							
IRRIGATION	G | MARBLE FALLS AQUIFER | LAMPASAS COUNTY	11	11	11	11	11	11
IRRIGATION	G | TRINITY AQUIFER | LAMPASAS COUNTY	111	111	111	111	111	111
COLORADO BASIN TOTAL EXISTING SUPPLY		**751**	**762**	**774**	**787**	**800**	**812**
LAMPASAS COUNTY TOTAL EXISTING SUPPLY		**5,053**	**5,114**	**5,116**	**5,112**	**5,103**	**5,084**
LEE COUNTY							
BRAZOS BASIN							
AQUA WSC	L | CARRIZO-WILCOX AQUIFER | CALDWELL COUNTY	555	555	555	555	555	555
GIDDINGS	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	842	840	841	840	840	839
LEE COUNTY WSC	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	2,045	2,012	1,962	1,883	1,792	1,686
LEE COUNTY WSC	G | QUEEN CITY AQUIFER | LEE COUNTY	39	34	31	28	27	25
LEE COUNTY WSC	G | SPARTA AQUIFER | LEE COUNTY	85	79	76	70	67	63
LEXINGTON	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	667	667	667	667	667	667
SOUTHWEST MILAM WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	76	73	61	65	63	60
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	131	125	120	118	117	116
MINING	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,623	1,623	1,623	1,623	1,623	1,623
IRRIGATION	G | BRAZOS RUN-OF-RIVER	20	20	20	20	20	20
IRRIGATION	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	429	416	404	392	380	369
BRAZOS BASIN TOTAL EXISTING SUPPLY		**6,512**	**6,444**	**6,360**	**6,261**	**6,151**	**6,023**
COLORADO BASIN							
GIDDINGS	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	892	893	891	891	890	890
LEE COUNTY WSC	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	794	781	760	731	694	653
LEE COUNTY WSC	G | QUEEN CITY AQUIFER | LEE COUNTY	15	13	12	11	10	10
LEE COUNTY WSC	G | SPARTA AQUIFER | LEE COUNTY	33	31	30	27	26	24
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	95	101	106	108	109	110
MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	13	14	15	16	17	18
MINING	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	0	0	0	0	0	0
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	312	312	312	312	312	312
IRRIGATION	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	47	60	72	84	96	107
COLORADO BASIN TOTAL EXISTING SUPPLY		**2,201**	**2,205**	**2,198**	**2,180**	**2,154**	**2,124**
LEE COUNTY TOTAL EXISTING SUPPLY		**8,713**	**8,649**	**8,558**	**8,441**	**8,305**	**8,147**
LIMESTONE COUNTY							
BRAZOS BASIN							
COOLIDGE	C | NAVARRO MILLS LAKE/RESERVOIR	85	59	58	56	52	48
COOLIDGE	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	15	12	12	11	11	10
COOLIDGE	G | MEXIA LAKE/RESERVOIR	40	32	25	19	11	3
GROESBECK	G | BRAZOS RUN-OF-RIVER	0	0	0	0	0	0
MART	G | TRINITY AQUIFER | MCLENNAN COUNTY	1	1	1	1	1	1
MEXIA	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	734	732	732	733	733	733
MEXIA	G | MEXIA LAKE/RESERVOIR	415	361	309	256	203	151

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
LIMESTONE COUNTY							
BRAZOS BASIN							
THORNTON	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	272	272	272	272	272	272
TRI-COUNTY SUD	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	92	90	88	88	87	84
TRI-COUNTY SUD	G | TRINITY AQUIFER | FALLS COUNTY	26	25	25	25	24	24
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	200	200	200	200	200	200
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	629	629	629	629	629	629
COUNTY-OTHER	G | MEXIA LAKE/RESERVOIR	297	286	274	264	253	241
COUNTY-OTHER	G | TRINITY AQUIFER | LIMESTONE COUNTY	62	62	62	62	62	62
MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	11	11	11	11	11	11
MANUFACTURING	G | MEXIA LAKE/RESERVOIR	12	15	17	19	21	23
MINING	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	803	803	803	803	803	803
MINING	G | TRINITY AQUIFER | LIMESTONE COUNTY	7	7	7	7	7	7
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	21,837	21,530	21,223	20,916	20,609	20,302
STEAM ELECTRIC POWER	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	839	839	839	839	839	839
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,522	1,522	1,522	1,522	1,522	1,522
BRAZOS BASIN TOTAL EXISTING SUPPLY		**27,899**	**27,488**	**27,109**	**26,733**	**26,350**	**25,965**
TRINITY BASIN							
COOLIDGE	C | NAVARRO MILLS LAKE/RESERVOIR	65	46	45	43	40	36
COOLIDGE	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	15	9	9	9	8	7
COOLIDGE	G | MEXIA LAKE/RESERVOIR	31	25	20	14	8	3
MEXIA	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	536	537	537	536	535	535
MEXIA	G | MEXIA LAKE/RESERVOIR	302	265	226	187	149	110
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	100	100	100	100	100	100
MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	32	33	33	33	34	34
MANUFACTURING	G | MEXIA LAKE/RESERVOIR	38	44	50	55	62	69
MINING		0	0	0	0	0	0
LIVESTOCK	G | TRINITY LIVESTOCK LOCAL SUPPLY	182	182	182	182	182	182
TRINITY BASIN TOTAL EXISTING SUPPLY		**1,301**	**1,241**	**1,202**	**1,159**	**1,118**	**1,076**
LIMESTONE COUNTY TOTAL EXISTING SUPPLY		**29,200**	**28,729**	**28,311**	**27,892**	**27,468**	**27,041**
MCLENNAN COUNTY							
BRAZOS BASIN							
WACO	G | DIRECT REUSE - WMARSS	12,035	13,902	15,769	17,636	19,503	21,370
WACO	G | TRINITY AQUIFER | MCLENNAN COUNTY	762	762	762	762	762	762
WACO	G | WACO LAKE/RESERVOIR	31,268	28,607	25,850	23,056	20,290	17,407
BELLMEAD	G | TRINITY AQUIFER | MCLENNAN COUNTY	1,502	1,502	1,502	1,502	1,502	1,502
BEVERLY HILLS	G | WACO LAKE/RESERVOIR	252	261	268	281	297	312
BRUCEVILLE-EDDY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	935	930	921	896	884	865

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
MCLENNAN COUNTY							
BRAZOS BASIN							
BRUCEVILLE-EDDY	G | TRINITY AQUIFER | MCLENNAN COUNTY	438	438	438	438	438	438
CHALK BLUFF WSC	G | TRINITY AQUIFER | MCLENNAN COUNTY	715	715	715	715	715	715
CRAWFORD	G | CRAWFORD LAKE/RESERVOIR	1	1	1	1	1	1
CRAWFORD	G | TRINITY AQUIFER | MCLENNAN COUNTY	143	143	143	143	143	143
CROSS COUNTRY WSC	G | TRINITY AQUIFER | BOSQUE COUNTY	54	54	54	84	84	84
CROSS COUNTRY WSC	G | TRINITY AQUIFER | MCLENNAN COUNTY	431	431	431	321	325	329
ELM CREEK WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	263	258	250	238	231	223
GHOLSON	G | TRINITY AQUIFER | MCLENNAN COUNTY	927	927	927	927	927	927
HALLSBURG	G | TRINITY AQUIFER | MCLENNAN COUNTY	81	84	87	92	97	102
HEWITT	G | TRINITY AQUIFER | MCLENNAN COUNTY	2,241	2,241	2,241	2,241	2,241	2,241
HEWITT	G | WACO LAKE/RESERVOIR	383	558	877	1,198	1,519	1,833
LACY-LAKEVIEW	G | WACO LAKE/RESERVOIR	1,120	1,120	1,120	1,120	1,120	1,120
LORENA	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0
LORENA	G | TRINITY AQUIFER | MCLENNAN COUNTY	322	322	322	322	322	322
LORENA	G | WACO LAKE/RESERVOIR	140	140	140	140	140	140
MART	G | TRINITY AQUIFER | MCLENNAN COUNTY	202	202	202	202	202	202
MCGREGOR	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,569	2,555	2,531	2,451	2,418	2,365
MCGREGOR	G | TRINITY AQUIFER | MCLENNAN COUNTY	293	293	293	293	293	293
MOODY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	401	399	395	384	379	371
MOODY	G | TRINITY AQUIFER | MCLENNAN COUNTY	211	211	211	211	211	211
NORTH BOSQUE WSC	G | TRINITY AQUIFER | MCLENNAN COUNTY	605	605	605	605	605	605
RIESEL	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	125	125	125	125	125	125
ROBINSON	G | BRAZOS RUN-OF-RIVER	1,126	1,126	1,126	1,126	1,126	1,126
ROBINSON	G | TRINITY AQUIFER | FALLS COUNTY	27	27	27	27	27	27
ROBINSON	G | TRINITY AQUIFER | MCLENNAN COUNTY	936	936	936	936	936	936
ROBINSON	G | WACO LAKE/RESERVOIR	420	420	420	420	420	420
TRI-COUNTY SUD	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	14	15	17	19	20	21
TRI-COUNTY SUD	G | TRINITY AQUIFER | FALLS COUNTY	4	4	5	5	6	6
VALLEY MILLS	G | TRINITY AQUIFER | BOSQUE COUNTY	6	8	8	10	11	13
WEST	G | TRINITY AQUIFER | MCLENNAN COUNTY	268	268	268	268	268	268
WEST	G | WACO LAKE/RESERVOIR	1,120	1,120	1,120	1,120	1,120	1,120
WEST BRAZOS WSC	G | TRINITY AQUIFER | FALLS COUNTY	6	5	5	5	5	4
WEST BRAZOS WSC	G | TRINITY AQUIFER | MCLENNAN COUNTY	107	109	112	117	118	120
WESTERN HILLS WS	G | TRINITY AQUIFER | MCLENNAN COUNTY	544	544	544	544	544	544
WOODWAY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,362	1,355	1,342	1,305	1,288	1,259

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
MCLENNAN COUNTY							
BRAZOS BASIN							
WOODWAY	G | TRINITY AQUIFER | MCLENNAN COUNTY	1,686	1,686	1,686	1,686	1,686	1,686
WOODWAY	G | WACO LAKE/RESERVOIR	429	655	857	1,081	1,314	1,546
CORYELL CITY WATER SUPPLY DISTRICT	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	156	181	202	222	243	262
GOLINDA	G | CARRIZO-WILCOX AQUIFER | FALLS COUNTY	17	21	23	27	30	33
GOLINDA	G | TRINITY AQUIFER | FALLS COUNTY	3	4	5	6	6	7
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	176	175	172	163	160	153
COUNTY-OTHER	G | TRINITY AQUIFER | MCLENNAN COUNTY	2,717	2,714	2,711	2,706	2,701	2,696
COUNTY-OTHER	G | WACO LAKE/RESERVOIR	724	724	724	724	724	724
MANUFACTURING	G | TRINITY AQUIFER | MCLENNAN COUNTY	915	915	915	915	915	915
MANUFACTURING	G | WACO LAKE/RESERVOIR	2,508	2,893	3,254	3,623	3,953	4,408
MINING	G | BRAZOS RIVER ALLUVIUM AQUIFER | MCLENNAN COUNTY	274	274	274	274	274	274
STEAM ELECTRIC POWER	G | DIRECT REUSE - WMARSS	15,000	15,000	15,000	15,000	15,000	15,000
STEAM ELECTRIC POWER	G | LAKE CREEK LAKE/RESERVOIR	9,835	9,830	9,825	9,820	9,815	9,810
STEAM ELECTRIC POWER	G | TRINITY AQUIFER | MCLENNAN COUNTY	178	178	178	178	178	178
STEAM ELECTRIC POWER	G | TURTLE CREEK LAKE/RESERVOIR	4,908	4,906	4,904	4,901	4,899	4,897
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,584	1,584	1,584	1,584	1,584	1,584
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | MCLENNAN COUNTY	1,023	1,023	1,023	1,023	1,023	1,023
IRRIGATION	G | BRAZOS RUN-OF-RIVER	1,424	1,406	1,389	1,372	1,354	1,337
IRRIGATION	G | TRINITY AQUIFER | MCLENNAN COUNTY	135	135	135	135	135	135
BRAZOS BASIN TOTAL EXISTING SUPPLY		**108,051**	**108,027**	**107,971**	**107,726**	**107,657**	**107,540**
MCLENNAN COUNTY TOTAL EXISTING SUPPLY		**108,051**	**108,027**	**107,971**	**107,726**	**107,657**	**107,540**
MILAM COUNTY							
BRAZOS BASIN							
BELL-MILAM FALLS WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	352	349	343	342	336	329
BELL-MILAM FALLS WSC	G | TRINITY AQUIFER | BELL COUNTY	431	428	420	419	412	403
CAMERON	G | BRAZOS RUN-OF-RIVER	2,615	2,615	2,615	2,615	2,615	2,615
MILANO WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	260	240	237	237	249	255
ROCKDALE	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	2,000	1,860	1,396	1,589	1,672	1,672
SOUTHWEST MILAM WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	1,625	1,443	1,202	1,307	1,314	1,261
THORNDALE	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	229	229	229	229	229	229
BUCKHOLTS	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	122	122	122	122	122	122
BUCKHOLTS	G | TRINITY AQUIFER | BELL COUNTY	122	122	122	122	122	122
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	793	793	793	793	793	793
COUNTY-OTHER	G | BRAZOS RUN-OF-RIVER	163	163	163	163	163	163
MANUFACTURING	G | BRAZOS RUN-OF-RIVER	14	14	14	14	14	14
MINING	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	14	14	14	14	14	14

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
MILAM COUNTY							
BRAZOS BASIN							
MINING	G | TRINITY AQUIFER | MILAM COUNTY	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | ALCOA LAKE/RESERVOIR	14,000	14,000	14,000	14,000	14,000	14,000
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,683	4,329	4,352	4,673	4,609	4,508
STEAM ELECTRIC POWER	G | BRAZOS RUN-OF-RIVER	650	650	650	650	650	650
STEAM ELECTRIC POWER	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	15,786	13,009	12,943	14,444	15,084	15,074
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,822	1,822	1,822	1,822	1,822	1,822
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | MILAM COUNTY	3,082	3,082	3,082	3,082	3,082	3,082
IRRIGATION	G | BRAZOS RUN-OF-RIVER	42	42	42	42	42	42
IRRIGATION	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	2,221	2,066	1,828	2,043	2,135	2,135
IRRIGATION	G | QUEEN CITY AQUIFER | MILAM COUNTY	53	56	56	56	56	56
BRAZOS BASIN TOTAL EXISTING SUPPLY		**49,079**	**47,448**	**46,445**	**48,778**	**49,535**	**49,361**
MILAM COUNTY TOTAL EXISTING SUPPLY		**49,079**	**47,448**	**46,445**	**48,778**	**49,535**	**49,361**
NOLAN COUNTY							
BRAZOS BASIN							
SWEETWATER	F | OAK CREEK LAKE/RESERVOIR	0	0	0	0	0	0
SWEETWATER	G | DOCKUM AQUIFER | NOLAN COUNTY	503	503	503	503	503	503
SWEETWATER	G | SWEETWATER LAKE/RESERVOIR	0	0	0	0	0	0
SWEETWATER	G | TRAMMEL LAKE/RESERVOIR	0	0	0	0	0	0
BITTER CREEK WSC	G | DOCKUM AQUIFER | FISHER COUNTY	127	130	132	133	135	136
BITTER CREEK WSC	G | DOCKUM AQUIFER | NOLAN COUNTY	272	277	282	285	289	291
ROSCOE	G | DOCKUM AQUIFER | NOLAN COUNTY	284	284	284	284	284	284
COUNTY-OTHER	G | EDWARDS-TRINITY-PLATEAU AQUIFER | NOLAN COUNTY	26	25	24	22	20	17
MANUFACTURING	G | DOCKUM AQUIFER | NOLAN COUNTY	368	368	368	368	368	368
MANUFACTURING	G | EDWARDS-TRINITY-PLATEAU AQUIFER | NOLAN COUNTY	171	171	171	171	171	171
MINING	G | BLAINE AQUIFER | NOLAN COUNTY	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | DOCKUM AQUIFER | NOLAN COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	232	232	232	232	232	232
IRRIGATION	G | BRAZOS RUN-OF-RIVER	24	24	24	24	24	24
IRRIGATION	G | DOCKUM AQUIFER | FISHER COUNTY	1,118	1,118	1,118	1,118	1,118	1,118
IRRIGATION	G | DOCKUM AQUIFER | NOLAN COUNTY	1,756	1,756	1,755	1,756	1,756	1,756
IRRIGATION	G | EDWARDS-TRINITY-PLATEAU AQUIFER | NOLAN COUNTY	60	60	60	60	60	60
BRAZOS BASIN TOTAL EXISTING SUPPLY		**4,941**	**4,948**	**4,953**	**4,956**	**4,960**	**4,960**
COLORADO BASIN							
COUNTY-OTHER	G | EDWARDS-TRINITY-PLATEAU AQUIFER | NOLAN COUNTY	98	99	100	102	104	107
MINING	G | BLAINE AQUIFER | NOLAN COUNTY	0	0	0	0	0	0
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	155	155	155	155	155	155
IRRIGATION	G | BRAZOS RUN-OF-RIVER	16	16	16	16	16	16

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
NOLAN COUNTY							
COLORADO BASIN							
IRRIGATION	G | DOCKUM AQUIFER | FISHER COUNTY	746	746	746	746	746	746
IRRIGATION	G | DOCKUM AQUIFER | NOLAN COUNTY	1,170	1,170	1,171	1,170	1,170	1,170
IRRIGATION	G | EDWARDS-TRINITY-PLATEAU AQUIFER | NOLAN COUNTY	40	40	40	40	40	40
COLORADO BASIN TOTAL EXISTING SUPPLY		**2,225**	**2,226**	**2,228**	**2,229**	**2,231**	**2,234**
NOLAN COUNTY TOTAL EXISTING SUPPLY		**7,166**	**7,174**	**7,181**	**7,185**	**7,191**	**7,194**
PALO PINTO COUNTY							
BRAZOS BASIN							
GRAFORD	G | PALO PINTO LAKE/RESERVOIR	92	92	92	92	92	92
MINERAL WELLS	G | PALO PINTO LAKE/RESERVOIR	2,593	2,708	2,775	2,856	2,935	3,002
STRAWN	G | STRAWN LAKE/RESERVOIR	160	160	160	160	160	160
STEPHENS REGIONAL SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	8	8	8	8	8	8
POSSUM KINGDOM WSC	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	719	720	721	722	723	723
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,124	1,124	1,124	1,124	1,124	1,124
COUNTY-OTHER	G | GORDON LAKE/RESERVOIR	4	4	4	4	4	4
COUNTY-OTHER	G | PALO PINTO LAKE/RESERVOIR	1,241	1,241	1,241	1,241	1,241	1,241
MANUFACTURING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,200	1,200	1,200	1,200	1,200	1,200
MANUFACTURING	G | PALO PINTO LAKE/RESERVOIR	10	10	10	10	10	10
MANUFACTURING	G | TRINITY AQUIFER | PALO PINTO COUNTY	1	1	1	1	1	1
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,236	1,220	1,203	1,187	1,170	1,154
MINING	G | TRINITY AQUIFER | PALO PINTO COUNTY	11	11	11	11	11	11
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	11,600	11,445	11,290	11,134	10,979	10,824
STEAM ELECTRIC POWER	G | GORDON LAKE/RESERVOIR	1	1	1	1	1	1
STEAM ELECTRIC POWER	G | PALO PINTO LAKE/RESERVOIR	2,241	1,966	1,737	1,492	1,247	1,014
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	915	915	915	915	915	915
IRRIGATION	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	550	550	550	550	550	550
BRAZOS BASIN TOTAL EXISTING SUPPLY		**23,706**	**23,376**	**23,043**	**22,708**	**22,371**	**22,034**
PALO PINTO COUNTY TOTAL EXISTING SUPPLY		**23,706**	**23,376**	**23,043**	**22,708**	**22,371**	**22,034**
ROBERTSON COUNTY							
BRAZOS BASIN							
BREMOND	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	391	391	391	391	391	391
CALVERT	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	529	529	529	529	529	529
FRANKLIN	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	628	628	628	628	628	628
HEARNE	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	2,842	2,842	2,842	2,842	2,842	2,842
ROBERTSON COUNTY WSC	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	511	511	511	511	511	511
TRI-COUNTY SUD	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	78	80	85	91	93	96
TRI-COUNTY SUD	G | TRINITY AQUIFER | FALLS COUNTY	22	23	24	26	26	27

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
ROBERTSON COUNTY							
BRAZOS BASIN							
WELLBORN SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	182	182	182	182	182	182
WELLBORN SUD	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	247	236	210	165	116	61
WICKSON CREEK SUD	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	43	37	33	28	24	21
WICKSON CREEK SUD	G | SPARTA AQUIFER | BRAZOS COUNTY	29	29	25	24	22	21
COUNTY-OTHER	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	757	757	757	757	757	757
MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	251	251	251	251	251	251
MINING	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	10,205	10,205	10,205	10,205	10,205	10,205
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	25,000	24,819	24,638	24,457	24,275	24,094
STEAM ELECTRIC POWER	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	6,014	6,014	6,014	6,014	6,014	6,014
STEAM ELECTRIC POWER	G | TWIN OAK LAKE/RESERVOIR	2,885	2,867	2,749	2,831	2,813	2,795
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,612	1,612	1,612	1,612	1,612	1,612
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | ROBERTSON COUNTY	6,300	6,300	6,300	6,300	6,300	6,300
IRRIGATION	G | BRAZOS RUN-OF-RIVER	535	535	535	535	535	535
IRRIGATION	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	3,296	3,296	3,296	3,296	3,296	3,296
IRRIGATION	G | SPARTA AQUIFER | ROBERTSON COUNTY	300	400	500	548	548	548
BRAZOS BASIN TOTAL EXISTING SUPPLY		**62,657**	**62,544**	**62,317**	**62,223**	**61,970**	**61,716**
ROBERTSON COUNTY TOTAL EXISTING SUPPLY		**62,657**	**62,544**	**62,317**	**62,223**	**61,970**	**61,716**
SHACKELFORD COUNTY							
BRAZOS BASIN							
ALBANY	G | HUBBARD CREEK LAKE/RESERVOIR	448	460	465	466	466	466
ALBANY	G | MCCARTY LAKE/RESERVOIR	380	380	380	380	380	380
STEPHENS REGIONAL SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	3	3	3	3	3	3
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0
COUNTY-OTHER	G | HUBBARD CREEK LAKE/RESERVOIR	125	113	108	107	107	107
COUNTY-OTHER	G | MORAN LAKE/RESERVOIR	0	0	0	0	0	0
MINING	G | BRAZOS RUN-OF-RIVER	5	5	5	5	5	5
MINING	G | MORAN LAKE/RESERVOIR	2	2	2	2	2	2
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	838	838	838	838	838	838
LIVESTOCK	G | BRAZOS RUN-OF-RIVER	2	2	2	2	2	2
BRAZOS BASIN TOTAL EXISTING SUPPLY		**1,803**	**1,803**	**1,803**	**1,803**	**1,803**	**1,803**
SHACKELFORD COUNTY TOTAL EXISTING SUPPLY		**1,803**	**1,803**	**1,803**	**1,803**	**1,803**	**1,803**
SOMERVELL COUNTY							
BRAZOS BASIN							
GLEN ROSE	G | TRINITY AQUIFER | SOMERVELL COUNTY	724	724	724	724	724	724
COUNTY-OTHER	G | BRAZOS RUN-OF-RIVER	1,400	1,400	1,400	1,400	1,400	1,400
MANUFACTURING	G | TRINITY AQUIFER | SOMERVELL COUNTY	20	20	20	20	20	20

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
SOMERVELL COUNTY							
BRAZOS BASIN							
MINING	G | TRINITY AQUIFER | SOMERVELL COUNTY	705	705	705	705	705	705
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	40,000	40,000	40,000	40,000	40,000	40,000
STEAM ELECTRIC POWER	G | SQUAW CREEK LAKE/RESERVOIR	9,285	9,272	9,260	9,247	9,234	9,222
STEAM ELECTRIC POWER	G | TRINITY AQUIFER | SOMERVELL COUNTY	36	36	36	36	36	36
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	158	158	158	158	158	158
IRRIGATION	G | TRINITY AQUIFER | SOMERVELL COUNTY	104	104	104	104	104	104
BRAZOS BASIN TOTAL EXISTING SUPPLY		**52,432**	**52,419**	**52,407**	**52,394**	**52,381**	**52,369**
SOMERVELL COUNTY TOTAL EXISTING SUPPLY		**52,432**	**52,419**	**52,407**	**52,394**	**52,381**	**52,369**
STEPHENS COUNTY							
BRAZOS BASIN							
BRECKENRIDGE	G | DANIEL LAKE/RESERVOIR	191	187	184	180	177	173
BRECKENRIDGE	G | HUBBARD CREEK LAKE/RESERVOIR	1,700	1,703	1,707	1,711	1,714	1,718
FORT BELKNAPP WSC	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	6	6	5	5	5	5
STEPHENS REGIONAL SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	404	405	404	406	407	407
POSSUM KINGDOM WSC	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	31	30	29	28	27	27
COUNTY-OTHER	G | OTHER AQUIFER | STEPHENS COUNTY	207	207	207	207	207	207
MANUFACTURING	G | DANIEL LAKE/RESERVOIR	9	10	11	12	13	14
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,000	1,000	1,000	1,000	1,000	1,000
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	486	486	486	486	486	486
IRRIGATION	G | OTHER AQUIFER | STEPHENS COUNTY	86	86	86	86	86	86
BRAZOS BASIN TOTAL EXISTING SUPPLY		**4,120**	**4,120**	**4,119**	**4,121**	**4,122**	**4,123**
STEPHENS COUNTY TOTAL EXISTING SUPPLY		**4,120**	**4,120**	**4,119**	**4,121**	**4,122**	**4,123**
STONEWALL COUNTY							
BRAZOS BASIN							
ASPERMONT	G | MILLERS CREEK LAKE/RESERVOIR	85	71	56	42	28	13
ASPERMONT	G | SEYMOUR AQUIFER | HASKELL COUNTY	303	293	278	279	286	286
COUNTY-OTHER	G | SEYMOUR AQUIFER | STONEWALL COUNTY	93	93	93	93	93	93
MINING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	175	175	175	175	175	175
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	458	458	458	458	458	458
IRRIGATION	G | BLAINE AQUIFER | STONEWALL COUNTY	129	129	129	129	129	129
IRRIGATION	G | BRAZOS RUN-OF-RIVER	8	8	8	8	8	8
IRRIGATION	G | SEYMOUR AQUIFER | STONEWALL COUNTY	90	90	90	90	90	90
BRAZOS BASIN TOTAL EXISTING SUPPLY		**1,341**	**1,317**	**1,287**	**1,274**	**1,267**	**1,252**
STONEWALL COUNTY TOTAL EXISTING SUPPLY		**1,341**	**1,317**	**1,287**	**1,274**	**1,267**	**1,252**
TAYLOR COUNTY							
BRAZOS BASIN							
ABILENE	F | OH IVIE LAKE/RESERVOIR NON-SYSTEM PORTION	4,601	4,462	4,325	4,189	4,051	3,914
ABILENE	G | FORT PHANTOM HILL LAKE/RESERVOIR	9,490	9,286	9,087	8,887	8,686	8,485
ABILENE	G | HUBBARD CREEK LAKE/RESERVOIR	6,980	3,271	3,003	2,754	2,456	2,143

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
TAYLOR COUNTY							
BRAZOS BASIN							
ABILENE	G | KIRBY LAKE/RESERVOIR	0	0	0	0	0	0
HAWLEY WSC	G | HUBBARD CREEK LAKE/RESERVOIR	48	48	48	48	46	46
MERKEL	G | HUBBARD CREEK LAKE/RESERVOIR	353	353	353	353	353	353
POTOSI WSC	G | HUBBARD CREEK LAKE/RESERVOIR	302	302	302	302	302	302
STEAMBOAT MOUNTAIN WSC	G | HUBBARD CREEK LAKE/RESERVOIR	181	182	182	182	180	179
TUSCOLA	G | HUBBARD CREEK LAKE/RESERVOIR	48	48	48	48	49	50
TYE	G | HUBBARD CREEK LAKE/RESERVOIR	184	184	184	184	184	184
COUNTY-OTHER	G | DOCKUM AQUIFER | NOLAN COUNTY	187	187	187	187	187	187
COUNTY-OTHER	G | HUBBARD CREEK LAKE/RESERVOIR	791	791	791	791	791	791
COUNTY-OTHER	G | LYTLE LAKE/RESERVOIR	0	0	0	0	0	0
MANUFACTURING	G | EDWARDS-TRINITY-PLATEAU AQUIFER | TAYLOR COUNTY	405	405	405	405	405	405
MANUFACTURING	G | HUBBARD CREEK LAKE/RESERVOIR	1,248	1,395	1,537	1,658	1,831	2,019
MINING	G | EDWARDS-TRINITY-PLATEAU AQUIFER | TAYLOR COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	681	681	681	681	681	681
IRRIGATION	G | EDWARDS-TRINITY-PLATEAU AQUIFER | TAYLOR COUNTY	49	49	49	49	49	49
IRRIGATION	G | TRINITY AQUIFER | TAYLOR COUNTY	153	153	153	153	153	153
BRAZOS BASIN TOTAL EXISTING SUPPLY		**25,701**	**21,797**	**21,335**	**20,871**	**20,404**	**19,941**
COLORADO BASIN							
STEAMBOAT MOUNTAIN WSC	G | HUBBARD CREEK LAKE/RESERVOIR	47	46	46	46	46	46
TUSCOLA	G | HUBBARD CREEK LAKE/RESERVOIR	31	31	31	31	32	32
COLEMAN COUNTY SUD	F | BROWNWOOD LAKE/RESERVOIR	7	7	7	7	7	7
COLEMAN COUNTY SUD	F | COLEMAN LAKE/RESERVOIR	0	0	0	0	0	0
COLEMAN COUNTY SUD	F | HORDS CREEK LAKE/RESERVOIR	0	0	0	0	0	0
COUNTY-OTHER	G | HUBBARD CREEK LAKE/RESERVOIR	100	100	100	100	100	100
MINING	G | EDWARDS-TRINITY-PLATEAU AQUIFER | TAYLOR COUNTY	0	0	0	0	0	0
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	282	282	282	282	282	282
IRRIGATION	G | EDWARDS-TRINITY-PLATEAU AQUIFER | TAYLOR COUNTY	21	21	21	21	21	21
IRRIGATION	G | TRINITY AQUIFER | TAYLOR COUNTY	278	278	278	278	278	278
COLORADO BASIN TOTAL EXISTING SUPPLY		**766**	**765**	**765**	**765**	**766**	**766**
TAYLOR COUNTY TOTAL EXISTING SUPPLY		**26,467**	**22,562**	**22,100**	**21,636**	**21,170**	**20,707**
THROCKMORTON COUNTY							
BRAZOS BASIN							
FORT BELKNAPP WSC	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	19	18	18	18	17	16
THROCKMORTON	G | THROCKMORTON LAKE/RESERVOIR	325	325	325	325	325	325
STEPHENS REGIONAL SUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	25	23	24	22	22	22
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	99	99	99	99	99	99
COUNTY-OTHER	G | WOODSON LAKE/RESERVOIR	0	0	0	0	0	0

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
THROCKMORTON COUNTY							
BRAZOS BASIN							
MINING	G | SEYMOUR AQUIFER | THROCKMORTON COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	672	672	672	672	672	672
BRAZOS BASIN TOTAL EXISTING SUPPLY		**1,140**	**1,137**	**1,138**	**1,136**	**1,135**	**1,134**
THROCKMORTON COUNTY TOTAL EXISTING SUPPLY		**1,140**	**1,137**	**1,138**	**1,136**	**1,135**	**1,134**
WASHINGTON COUNTY							
BRAZOS BASIN							
BRENHAM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	3,909	3,909	3,909	3,909	3,909	3,909
BRENHAM	G | GULF COAST AQUIFER | WASHINGTON COUNTY	234	234	234	234	234	234
COUNTY-OTHER	G | GULF COAST AQUIFER | WASHINGTON COUNTY	2,543	2,543	2,543	2,543	2,543	2,543
MANUFACTURING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	208	208	208	208	208	208
MANUFACTURING	G | GULF COAST AQUIFER | WASHINGTON COUNTY	423	423	423	423	423	423
MINING	G | GULF COAST AQUIFER | WASHINGTON COUNTY	0	0	0	0	0	0
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,654	1,654	1,654	1,654	1,654	1,654
IRRIGATION	G | BRAZOS RIVER ALLUVIUM AQUIFER | WASHINGTON COUNTY	82	82	82	82	82	82
IRRIGATION	G | GULF COAST AQUIFER | WASHINGTON COUNTY	368	368	368	368	368	368
BRAZOS BASIN TOTAL EXISTING SUPPLY		**9,421**	**9,421**	**9,421**	**9,421**	**9,421**	**9,421**
COLORADO BASIN							
COUNTY-OTHER	G | GULF COAST AQUIFER | WASHINGTON COUNTY	7	7	7	7	7	7
LIVESTOCK	G | COLORADO LIVESTOCK LOCAL SUPPLY	7	7	7	7	7	7
COLORADO BASIN TOTAL EXISTING SUPPLY		**14**	**14**	**14**	**14**	**14**	**14**
WASHINGTON COUNTY TOTAL EXISTING SUPPLY		**9,435**	**9,435**	**9,435**	**9,435**	**9,435**	**9,435**
WILLIAMSON COUNTY							
BRAZOS BASIN							
CEDAR PARK	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	13,183	13,350	13,221	12,982	12,980	12,979
ROUND ROCK	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	20,548	20,135	19,509	17,419	16,016	14,387
ROUND ROCK	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	133	133	133	133	133	133
ROUND ROCK	G | DIRECT REUSE	3,711	3,629	3,505	3,365	3,233	3,090
ROUND ROCK	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	101	30	0	0	0	0
ROUND ROCK	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0
BARTLETT	G | TRINITY AQUIFER | WILLIAMSON COUNTY	41	40	38	37	37	37
BELL-MILAM FALLS WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	68	79	94	110	124	138
BELL-MILAM FALLS WSC	G | TRINITY AQUIFER | BELL COUNTY	82	98	116	134	151	168
BRUSHY CREEK MUD	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	3,628	3,980	3,516	3,211	2,871	2,786
BRUSHY CREEK MUD	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	680	615	223	0	0	0
CHISHOLM TRAIL SUD	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,037	2,011	1,975	1,934	1,884	1,832

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY							
BRAZOS BASIN							
CHISHOLM TRAIL SUD	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	246	249	251	253	255	256
FERN BLUFF MUD	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,153	1,043	943	930	930	930
FLORENCE	G | TRINITY AQUIFER | WILLIAMSON COUNTY	60	60	60	60	60	60
GEORGETOWN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	17,279	17,263	17,248	17,234	17,221	17,207
GEORGETOWN	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	265	330	722	945	945	945
GRANGER	G | TRINITY AQUIFER | WILLIAMSON COUNTY	99	99	99	99	99	99
HUTTO	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	944	944	944	944	944	944
HUTTO	G | CARRIZO-WILCOX AQUIFER | WILLIAMSON COUNTY	7	7	7	7	7	7
HUTTO	K | EDWARDS-BFZ AQUIFER | TRAVIS COUNTY	483	483	483	483	483	483
JARRELL-SCHWERTNER WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,134	1,251	1,424	1,400	1,402	1,380
JARRELL-SCHWERTNER WSC	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	41	36	27	16	3	1
JONAH WATER SUD	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,681	1,669	1,646	1,521	1,490	1,441
JONAH WATER SUD	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	304	304	304	304	304	304
LEANDER	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	5,198	4,716	4,662	5,131	5,321	5,459
LIBERTY HILL	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	158	192	237	286	343	402
LIBERTY HILL	G | TRINITY AQUIFER | WILLIAMSON COUNTY	56	56	56	56	56	56
LIBERTY HILL	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	600	600	600	600	600	600
MANVILLE WSC	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	367	372	387	398	415	431
MANVILLE WSC	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	1,359	1,378	1,436	1,475	1,538	1,983
MANVILLE WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	383	356	315	352	368	368
MANVILLE WSC	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	385	385	385	385	385	385
MANVILLE WSC	G | OTHER AQUIFER | WILLIAMSON COUNTY	91	93	96	99	103	107
MANVILLE WSC	K | EDWARDS-BFZ AQUIFER | TRAVIS COUNTY	143	145	151	155	161	168
MANVILLE WSC	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	150	152	158	162	169	176
MANVILLE WSC	K | TRINITY AQUIFER | TRAVIS COUNTY	150	152	158	163	170	176
PFLUGERVILLE	K | EDWARDS-BFZ AQUIFER | TRAVIS COUNTY	5	5	5	5	5	5
PFLUGERVILLE	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	138	138	138	139	168	198
SOUTHWEST MILAM WSC	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	473	497	500	631	733	798
TAYLOR	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,840	3,006	3,241	3,522	3,869	4,232
THORNDALE	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	1	1	1	1	1	1
THRALL	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	83	89	99	110	124	139
THRALL	G | OTHER AQUIFER | WILLIAMSON COUNTY	6	6	6	6	6	6
WILLIAMSON-TRAVIS COUNTY MUD #1	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	788	788	788	787	788	787

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY							
BRAZOS BASIN							
JARRELL	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	53	63	76	91	108	141
JARRELL	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	53	62	75	90	107	110
JARRELL	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	3	4	5	6	7	8
WILLIAMSON COUNTY MUD #10	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	935	1,062	1,204	1,403	1,687	1,982
WILLIAMSON COUNTY MUD #11	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	542	616	707	862	1,037	1,218
WILLIAMSON COUNTY MUD #9	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	797	906	1,027	1,247	1,500	1,762
BLOCK HOUSE MUD	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	1,098	1,098	1,098	1,098	1,098	1,098
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	501	584	703	860	1,173	1,490
COUNTY-OTHER	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	208	208	208	208	208	208
COUNTY-OTHER	G | OTHER AQUIFER | WILLIAMSON COUNTY	380	380	380	380	380	380
COUNTY-OTHER	G | TRINITY AQUIFER | WILLIAMSON COUNTY	1,216	1,216	1,216	1,216	1,216	1,216
MANUFACTURING	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	389	448	507	561	612	666
MANUFACTURING	G | DIRECT REUSE	565	651	780	924	1,059	1,205
MANUFACTURING	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	596	668	698	698	698	698
MANUFACTURING	G | TRINITY AQUIFER | WILLIAMSON COUNTY	3	3	3	3	3	3
MANUFACTURING	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	790	912	1,033	1,142	1,243	1,355
MINING	G | DIRECT REUSE	3	3	3	3	3	3
MINING	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	412	412	412	412	412	412
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	1,455	1,455	1,455	1,455	1,455	1,455
IRRIGATION	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	15	15	15	14	14	14
IRRIGATION	G | BRAZOS RUN-OF-RIVER	52	52	52	52	52	52
IRRIGATION	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	7	7	7	7	7	7
IRRIGATION	G | TRINITY AQUIFER | WILLIAMSON COUNTY	6	6	6	6	6	6
BRAZOS BASIN TOTAL EXISTING SUPPLY		**91,361**	**91,796**	**91,577**	**90,722**	**90,980**	**91,573**
COLORADO BASIN							
COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	165	195	235	373	457	552
COUNTY-OTHER	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	600	598	596	594	592	590
COLORADO BASIN TOTAL EXISTING SUPPLY		**765**	**793**	**831**	**967**	**1,049**	**1,142**
WILLIAMSON COUNTY TOTAL EXISTING SUPPLY		**92,126**	**92,589**	**92,408**	**91,689**	**92,029**	**92,715**
YOUNG COUNTY							
BRAZOS BASIN							
FORT BELKNAPP WSC	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	381	382	383	384	384	385
GRAHAM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,000	1,000	1,000	1,000	1,000	1,000
GRAHAM	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	2,011	2,014	2,015	2,015	2,014	2,013
GRAHAM	G | OTHER AQUIFER | YOUNG COUNTY	194	194	194	194	194	194

Water User Group (WUG) Existing Water Supply

REGION G	SOURCE REGION | SOURCE NAME	EXISTING SUPPLY (ACRE-FEET PER YEAR)					
		2020	2030	2040	2050	2060	2070
YOUNG COUNTY							
BRAZOS BASIN							
NEWCASTLE	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	60	61	61	61	63	65
COUNTY-OTHER	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	74	70	69	69	68	67
COUNTY-OTHER	G | OTHER AQUIFER | YOUNG COUNTY	162	157	152	149	142	134
MANUFACTURING	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	2	2	2	2	2	2
MANUFACTURING	G | OTHER AQUIFER | YOUNG COUNTY	57	62	67	70	77	85
MINING	G | OTHER AQUIFER | YOUNG COUNTY	0	0	0	0	0	0
STEAM ELECTRIC POWER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	14,000	14,000	14,000	14,000	14,000	14,000
STEAM ELECTRIC POWER	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	248	248	248	248	248	248
LIVESTOCK	G | BRAZOS LIVESTOCK LOCAL SUPPLY	839	839	839	839	839	839
IRRIGATION	G | OTHER AQUIFER | YOUNG COUNTY	0	0	0	0	0	0
BRAZOS BASIN TOTAL EXISTING SUPPLY		**19,028**	**19,029**	**19,030**	**19,031**	**19,031**	**19,032**
TRINITY BASIN							
FORT BELKNAPP WSC	G | GRAHAM/EDDLEMAN LAKE/RESERVOIR	13	13	13	12	13	13
COUNTY-OTHER	G | OTHER AQUIFER | YOUNG COUNTY	61	61	61	61	61	61
MINING	G | OTHER AQUIFER | YOUNG COUNTY	0	0	0	0	0	0
LIVESTOCK	G | TRINITY LIVESTOCK LOCAL SUPPLY	137	137	137	137	137	137
TRINITY BASIN TOTAL EXISTING SUPPLY		**211**	**211**	**211**	**210**	**211**	**211**
YOUNG COUNTY TOTAL EXISTING SUPPLY		**19,239**	**19,240**	**19,241**	**19,241**	**19,242**	**19,243**
REGION G TOTAL EXISTING SUPPLY		**1,107,143**	**1,102,353**	**1,092,801**	**1,086,807**	**1,087,674**	**1,081,797**

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BELL COUNTY						
BRAZOS BASIN						
439 WSC	455	355	242	47	(46)	(94)
ARMSTRONG WSC	865	853	837	817	793	769
BARTLETT	(126)	(145)	(166)	(189)	(215)	(240)
BELL-MILAM FALLS WSC	713	690	683	673	648	623
BELTON	3,592	3,049	2,413	1,434	722	(40)
CHISHOLM TRAIL SUD	(263)	(366)	(478)	(592)	(703)	(811)
DOG RIDGE WSC	1,200	1,143	1,076	970	891	806
EAST BELL WSC	893	850	800	742	676	610
ELM CREEK WSC	80	49	12	(34)	(78)	(126)
FORT HOOD	1,778	1,609	1,475	1,292	1,109	921
HARKER HEIGHTS	931	24	(939)	(1,496)	(1,975)	(3,171)
HOLLAND	377	381	383	384	383	382
JARRELL-SCHWERTNER WSC	288	270	259	185	119	57
KEMPNER WSC	(73)	(115)	(158)	(205)	(254)	(303)
KILLEEN	20,490	17,859	14,664	9,595	5,969	2,059
LITTLE RIVER-ACADEMY	11	(21)	(59)	(102)	(146)	(190)
MOFFAT WSC	839	832	814	765	733	691
MORGAN'S POINT RESORT	1,340	1,251	1,148	1,038	926	814
NOLANVILLE	(72)	(444)	(858)	(1,330)	(1,758)	(2,188)
PENDLETON WSC	257	254	240	217	200	178
ROGERS	435	430	424	415	405	394
SALADO WSC	510	373	219	54	(112)	(278)
TEMPLE	2,223	(1,903)	(4,373)	(8,177)	(11,600)	(13,337)
TROY	1,011	1,000	987	971	952	933
WEST BELL COUNTY WSC	871	844	860	862	863	863
COUNTY-OTHER	1,084	234	(768)	(1,828)	(2,824)	(3,788)
MANUFACTURING	(873)	(993)	(1,110)	(1,214)	(1,350)	(1,497)
MINING	(3,242)	(3,980)	(4,599)	(5,349)	(6,105)	(6,968)
STEAM ELECTRIC POWER	(4,220)	(4,934)	(5,804)	(6,865)	(8,157)	(9,693)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(1,157)	(1,127)	(1,102)	(1,088)	(1,060)	(1,038)
BOSQUE COUNTY						
BRAZOS BASIN						
CHILDRESS CREEK WSC	38	12	2	(5)	(11)	(16)
CLIFTON	334	289	271	259	248	206
CROSS COUNTRY WSC	37	29	26	(127)	(132)	(138)
MERIDIAN	265	253	249	246	243	241
VALLEY MILLS	41	22	14	8	2	(2)
WALNUT SPRINGS	98	94	93	92	90	89
COUNTY-OTHER	248	162	124	99	79	66
MANUFACTURING	(1,868)	(2,187)	(2,501)	(2,772)	(3,088)	(3,431)
MINING	(1,843)	(1,942)	(1,763)	(1,743)	(1,704)	(1,692)
STEAM ELECTRIC POWER	312	(861)	(2,262)	(3,943)	(5,965)	(8,344)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(536)	(502)	(468)	(438)	(407)	(377)

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BRAZOS COUNTY						
BRAZOS BASIN						
BRYAN	(3,335)	(1,269)	(5,533)	(11,875)	(18,790)	(26,578)
COLLEGE STATION	(4,973)	(8,024)	(7,372)	(7,673)	(8,085)	(8,401)
TEXAS A & M UNIVERSITY	5,253	6,760	7,323	7,340	7,343	7,344
WELLBORN SUD	377	90	(300)	(846)	(1,448)	(2,114)
WICKSON CREEK SUD	1,535	1,378	1,154	892	604	301
COUNTY-OTHER	39	379	424	346	223	28
MANUFACTURING	(1,800)	(886)	(1,219)	(1,513)	(1,802)	(2,116)
MINING	(1,088)	(1,610)	(1,433)	(1,144)	(923)	(814)
STEAM ELECTRIC POWER	(271)	(151)	(197)	(49)	(142)	(121)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(10,934)	(9,669)	(8,474)	(7,340)	(6,256)	(5,321)
BURLESON COUNTY						
BRAZOS BASIN						
CALDWELL	1,325	1,309	1,279	1,279	1,261	1,244
DEANVILLE WSC	236	230	211	214	208	202
MILANO WSC	38	14	8	1	4	2
SNOOK	291	280	274	266	259	254
SOMERVILLE	625	614	606	595	586	578
SOUTHWEST MILAM WSC	76	49	16	24	20	7
COUNTY-OTHER	258	200	170	102	64	32
MANUFACTURING	0	(22)	(44)	(64)	(82)	(102)
MINING	(995)	(1,923)	(1,512)	(1,100)	(686)	(428)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	107	1,058	1,905	2,847	3,746	4,493
CALLAHAN COUNTY						
BRAZOS BASIN						
BAIRD	66	74	80	81	81	81
CLYDE	205	202	204	206	202	201
POTOSI WSC	(7)	(8)	(8)	(8)	(8)	(8)
COUNTY-OTHER	20	12	12	12	7	5
MINING	(119)	(118)	(111)	(105)	(99)	(94)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	26	28	30	32	34	35
COLORADO BASIN						
CLYDE	57	57	57	57	58	56
COLEMAN COUNTY SUD	(10)	(10)	(10)	(10)	(10)	(11)
CROSS PLAINS	232	225	223	220	218	217
COUNTY-OTHER	15	9	8	9	7	4
MINING	(109)	(109)	(103)	(96)	(91)	(86)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	143	150	157	164	171	178
COMANCHE COUNTY						
BRAZOS BASIN						
COMANCHE	159	152	147	96	70	38
DE LEON	84	85	85	64	55	42
COUNTY-OTHER	(149)	(144)	(135)	(144)	(163)	(183)
MANUFACTURING	0	0	0	0	0	0

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
COMANCHE COUNTY						
BRAZOS BASIN						
MINING	(418)	(499)	(337)	(250)	(162)	(102)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(893)	(1,962)	(1,823)	(463)	(757)	(968)
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
CORYELL COUNTY						
BRAZOS BASIN						
COPPERAS COVE	4,550	4,039	3,444	2,528	1,867	1,145
CORYELL CITY WATER SUPPLY DISTRICT	203	211	219	214	211	206
ELM CREEK WSC	13	8	2	(5)	(12)	(19)
FORT HOOD	1,652	1,530	1,403	1,228	1,054	875
GATESVILLE	28	(629)	(1,406)	(2,356)	(3,152)	(3,995)
KEMPNER WSC	(113)	(173)	(236)	(298)	(365)	(431)
MULTI-COUNTY WSC	(80)	(100)	(127)	(153)	(184)	(217)
COUNTY-OTHER	870	594	234	(93)	(171)	(515)
MANUFACTURING	0	0	0	0	0	0
MINING	(1,510)	(1,072)	(491)	(363)	(398)	(437)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	556	556	556	556	556	556
EASTLAND COUNTY						
BRAZOS BASIN						
CISCO	224	224	236	241	240	237
EASTLAND	2,546	2,551	2,565	2,573	2,575	2,575
GORMAN	70	73	75	66	63	59
RANGER	1,562	1,565	1,575	1,577	1,578	1,578
RISING STAR	0	2	5	7	7	7
STEPHENS REGIONAL SUD	7	8	8	9	8	8
COUNTY-OTHER	18	35	57	70	72	72
MANUFACTURING	38	38	38	37	38	37
MINING	(1,123)	(1,132)	(896)	(689)	(500)	(417)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(1,982)	(1,992)	(2,000)	(2,002)	(2,006)	(2,013)
COLORADO BASIN						
COUNTY-OTHER	2	3	4	4	4	4
MINING	(41)	(41)	(33)	(25)	(18)	(15)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(256)	(257)	(257)	(258)	(258)	(258)
ERATH COUNTY						
BRAZOS BASIN						
DUBLIN	139	116	97	73	44	15
STEPHENVILLE	3,522	3,293	3,085	2,776	2,535	2,285
COUNTY-OTHER	692	477	291	93	(116)	(315)
MANUFACTURING	0	0	0	0	0	1
MINING	6	(25)	135	207	279	334
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	641	733	825	915	1,004	1,088

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
FALLS COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	404	389	364	330	310	293
BRUCEVILLE-EDDY	3	3	3	3	2	2
EAST BELL WSC	82	69	57	46	39	31
GOLINDA	3	2	2	0	1	0
LOTT	159	159	161	164	163	161
MARLIN	979	923	930	978	927	872
ROSEBUD	427	426	430	435	430	425
TRI-COUNTY SUD	(46)	(52)	(52)	(49)	(60)	(72)
WEST BRAZOS WSC	(84)	(88)	(89)	(88)	(96)	(104)
COUNTY-OTHER	89	81	90	105	87	68
MANUFACTURING	(1)	(1)	(1)	(1)	(1)	(1)
MINING	(225)	(246)	(259)	(286)	(307)	(331)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	2,204	2,342	2,478	2,607	2,733	2,847
FISHER COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	164	160	157	153	147	144
ROBY	263	266	268	269	270	270
ROTAN	(89)	(50)	(60)	(67)	(76)	(84)
COUNTY-OTHER	41	46	50	50	51	51
MANUFACTURING	(20)	(50)	(79)	(105)	(131)	(159)
MINING	(407)	(402)	(359)	(313)	(273)	(238)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	802	936	1,066	1,192	1,316	1,428
GRIMES COUNTY						
BRAZOS BASIN						
DOBBIN-PLANTERSVILLE WSC	0	0	0	0	0	0
G & W WSC	0	0	0	0	0	0
NAVASOTA	661	650	643	623	572	502
WICKSON CREEK SUD	467	377	283	196	119	54
COUNTY-OTHER	167	160	156	124	96	66
MANUFACTURING	154	107	59	17	0	0
MINING	(210)	(391)	(306)	(221)	(136)	(83)
STEAM ELECTRIC POWER	(5,263)	(6,303)	(7,414)	(8,874)	(11,035)	(13,367)
LIVESTOCK	0	0	0	0	0	0
SAN JACINTO BASIN						
DOBBIN-PLANTERSVILLE WSC	0	0	0	0	0	0
G & W WSC	0	0	0	0	0	0
COUNTY-OTHER	65	57	55	32	14	0
MINING	(61)	(142)	(104)	(66)	(28)	(4)
STEAM ELECTRIC POWER	(6,402)	(6,848)	(7,324)	(7,950)	(8,876)	(9,875)
LIVESTOCK	0	0	0	0	0	0
TRINITY BASIN						
WICKSON CREEK SUD	64	51	39	26	17	7
COUNTY-OTHER	0	0	0	0	0	0
MINING	(19)	(36)	(28)	(20)	(12)	(8)
LIVESTOCK	0	0	0	0	0	0

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
HAMILTON COUNTY						
BRAZOS BASIN						
HAMILTON	139	136	137	88	74	52
HICO	203	207	212	215	216	216
MULTI-COUNTY WSC	(19)	(22)	(24)	(26)	(29)	(31)
COUNTY-OTHER	149	161	175	177	178	178
MANUFACTURING	1	1	1	1	1	1
MINING	(380)	(223)	(88)	13	13	13
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(70)	(68)	(61)	(38)	(16)	(6)
HASKELL COUNTY						
BRAZOS BASIN						
HASKELL	(58)	(126)	(193)	(269)	(353)	(442)
RULE	72	64	56	49	46	38
STAMFORD	4	3	3	3	3	2
COUNTY-OTHER	280	241	198	155	114	68
MINING	(93)	(92)	(83)	(74)	(66)	(59)
STEAM ELECTRIC POWER	1,864	1,807	1,738	1,653	1,550	1,480
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(2,225)	(2,388)	(3,197)	(1,065)	682	1,880
HILL COUNTY						
BRAZOS BASIN						
BRANDON-IRENE WSC	19	22	20	17	14	11
FILES VALLEY WSC	143	160	141	123	105	87
HILL COUNTY WSC	427	428	415	399	386	375
HILLSBORO	1,888	1,606	1,554	1,486	1,425	1,373
ITASCA	79	77	77	75	71	68
JOHNSON COUNTY SUD	34	24	18	9	2	(2)
PARKER WSC	17	11	6	1	(3)	(6)
WHITE BLUFF COMMUNITY WS	166	142	126	109	95	83
WHITNEY	169	151	139	125	112	100
WOODROW-OSCEOLA WSC	221	220	217	203	193	184
COUNTY-OTHER	437	264	218	163	109	55
MANUFACTURING	0	0	0	0	0	0
MINING	(307)	0	223	579	529	477
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	822	822	822	822	832	835
TRINITY BASIN						
BRANDON-IRENE WSC	72	80	73	62	50	39
FILES VALLEY WSC	335	374	335	292	247	203
HUBBARD	29	(25)	(32)	(44)	(57)	(69)
ITASCA	6	6	6	5	5	5
JOHNSON COUNTY SUD	7	5	3	1	0	0
PARKER WSC	4	3	1	0	(1)	(1)
COUNTY-OTHER	55	33	29	22	15	8
MINING	(296)	(175)	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	10	10	10	10	14	16

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
HOOD COUNTY						
BRAZOS BASIN						
ACTON MUD	4,322	2,742	1,700	1,155	533	(156)
CRESSON	6	1	(7)	(19)	(31)	(40)
GRANBURY	890	674	520	358	246	158
OAK TRAIL SHORES SUBDIVISION	214	220	226	227	226	223
TOLAR	45	26	12	(1)	(11)	(19)
COUNTY-OTHER	(968)	(344)	(77)	(121)	(22)	188
MANUFACTURING	10,000	9,998	9,996	9,994	9,991	9,988
MINING	(837)	(1,193)	(980)	(892)	(803)	(817)
STEAM ELECTRIC POWER	37,783	36,801	35,602	34,141	32,183	27,133
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	325	459	591	723	850	970
TRINITY BASIN						
CRESSON	2	1	(1)	(2)	(4)	(6)
COUNTY-OTHER	0	0	0	0	0	5
MINING	(17)	(19)	(18)	(17)	(16)	(16)
LIVESTOCK	0	0	0	0	0	0
JOHNSON COUNTY						
BRAZOS BASIN						
ACTON MUD	85	47	30	24	12	(4)
BETHESDA WSC	(43)	(60)	(77)	(97)	(118)	(140)
BURLESON	(2)	(3)	(4)	(4)	(5)	(6)
CLEBURNE	3,174	2,201	1,177	90	(1,092)	(2,373)
CRESSON	2	0	(3)	(3)	(2)	(5)
GODLEY	44	34	22	8	(8)	(25)
JOHNSON COUNTY SUD	1,776	1,442	1,070	599	211	(191)
JOSHUA	0	0	0	0	0	0
KEENE	147	137	125	112	98	72
PARKER WSC	172	124	73	12	(56)	(132)
RIO VISTA	99	71	42	8	(30)	(71)
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	78	80	84	87	88	92
MINING	(636)	37	677	931	856	768
STEAM ELECTRIC POWER	(5,656)	(5,656)	(5,656)	(5,656)	(5,656)	(5,656)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	119	117	116	114	113	111
TRINITY BASIN						
ALVARADO	2,095	2,058	2,015	1,962	1,898	1,829
BETHANY WSC	1,186	1,157	1,123	1,081	1,029	972
BETHESDA WSC	(874)	(1,203)	(2,580)	(3,136)	(3,613)	(4,102)
BURLESON	(1,440)	(2,344)	(3,274)	(4,076)	(5,008)	(6,076)
CRESSON	3	0	(1)	(3)	(7)	(8)
CROWLEY	(2)	(4)	(7)	(12)	(19)	(24)
FORT WORTH	0	0	0	(356)	(647)	(893)
GRANDVIEW	187	172	155	135	109	82
JOHNSON COUNTY SUD	4,901	3,982	2,951	1,658	582	(521)
JOSHUA	0	0	0	0	0	0
KEENE	907	840	768	688	601	447

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
JOHNSON COUNTY						
TRINITY BASIN						
MANSFIELD	(184)	(347)	(571)	(895)	(1,187)	(1,516)
MOUNTAIN PEAK SUD	800	676	545	400	241	71
PARKER WSC	52	37	22	4	(17)	(40)
VENUS	(144)	(225)	(328)	(433)	(544)	(658)
COUNTY-OTHER	87	171	166	309	323	309
MANUFACTURING	13	11	8	5	3	0
MINING	(628)	37	670	918	845	758
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	39	38	36	35	33	32
JONES COUNTY						
BRAZOS BASIN						
ABILENE	(31)	(237)	(282)	(328)	(378)	(427)
ANSON	644	636	633	623	614	606
HAMLIN	341	329	320	307	296	287
HAWLEY	0	0	0	0	0	0
HAWLEY WSC	76	74	76	72	62	50
STAMFORD	362	332	312	287	265	247
COUNTY-OTHER	74	64	57	50	43	37
MINING	(239)	(234)	(218)	(199)	(183)	(169)
STEAM ELECTRIC POWER	7,914	11,543	11,441	11,473	11,353	11,319
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(260)	(174)	(91)	(10)	68	139
KENT COUNTY						
BRAZOS BASIN						
JAYTON	(92)	(91)	(89)	(89)	(88)	(88)
COUNTY-OTHER	12	13	13	13	13	13
MINING	421	421	424	427	430	433
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	209	246	278	310	342	371
KNOX COUNTY						
BRAZOS BASIN						
KNOX CITY	(48)	(83)	(118)	(154)	(190)	(226)
MUNDAY	(55)	(91)	(125)	(164)	(200)	(237)
COUNTY-OTHER	90	79	65	48	33	16
MINING	(12)	(12)	(11)	(11)	(11)	(11)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(92)	(92)	(789)	(1,768)	(92)	(92)
RED BASIN						
COUNTY-OTHER	9	7	6	4	1	0
MINING	(3)	(3)	(3)	(3)	(3)	(3)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(3,029)	(5,423)	(7,716)	(7,515)	(5,864)	(5,013)
LAMPASAS COUNTY						
BRAZOS BASIN						
COPPERAS COVE	134	157	149	120	93	58
KEMPNER	(7)	(10)	(6)	(6)	(5)	(5)
KEMPNER WSC	(350)	(526)	(683)	(841)	(993)	(1,134)

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
LAMPASAS COUNTY						
BRAZOS BASIN						
LAMPASAS	(49)	(148)	(227)	(318)	(414)	(505)
LOMETA	5	9	9	9	9	9
COUNTY-OTHER	60	85	102	121	137	150
MANUFACTURING	0	0	0	0	0	0
MINING	(123)	(141)	(156)	(171)	(189)	(210)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	98	98	99	100	100	100
COLORADO BASIN						
LOMETA	(5)	(9)	(9)	(9)	(9)	(9)
COUNTY-OTHER	0	0	0	0	0	0
MINING	(50)	(55)	(60)	(65)	(72)	(78)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(218)	(213)	(209)	(205)	(203)	(199)
LEE COUNTY						
BRAZOS BASIN						
AQUA WSC	89	44	19	11	4	0
GIDDINGS	298	243	215	206	197	192
LEE COUNTY WSC	1,515	1,411	1,323	1,226	1,122	1,005
LEXINGTON	425	402	390	386	383	381
SOUTHWEST MILAM WSC	28	20	6	9	7	3
COUNTY-OTHER	31	19	8	4	2	0
MINING	(2,480)	(5,685)	(6,058)	(6,477)	(6,945)	(7,512)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
COLORADO BASIN						
GIDDINGS	316	259	228	218	209	203
LEE COUNTY WSC	588	548	513	476	434	389
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	(700)	(1,604)	(1,709)	(1,827)	(1,959)	(2,119)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	37	50	62	75	87	98
LIMESTONE COUNTY						
BRAZOS BASIN						
COOLIDGE	38	(7)	(22)	(40)	(59)	(79)
GROESBECK	(688)	(677)	(668)	(665)	(668)	(672)
MART	0	(1)	(1)	(1)	(1)	(2)
MEXIA	813	719	636	549	468	391
THORNTON	202	204	206	207	207	207
TRI-COUNTY SUD	(18)	(19)	(20)	(20)	(23)	(28)
COUNTY-OTHER	364	346	331	302	273	235
MANUFACTURING	0	0	0	0	0	0
MINING	(8,682)	(8,321)	(8,266)	(8,702)	(9,131)	(9,701)
STEAM ELECTRIC POWER	78	(4,051)	(9,017)	(15,003)	(22,233)	(30,892)
LIVESTOCK	0	0	0	0	0	0
TRINITY BASIN						
COOLIDGE	33	(5)	(16)	(30)	(46)	(61)

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
LIMESTONE COUNTY						
TRINITY BASIN						
MEXIA	593	528	466	401	342	285
COUNTY-OTHER	32	53	67	82	85	95
MANUFACTURING	0	1	0	0	1	0
MINING	(825)	(794)	(789)	(827)	(864)	(914)
LIVESTOCK	0	0	0	0	0	0
MCLENNAN COUNTY						
BRAZOS BASIN						
BELLMEAD	261	233	206	163	105	45
BEVERLY HILLS	0	0	0	0	0	0
BRUCEVILLE-EDDY	1,081	1,061	1,037	996	965	927
CHALK BLUFF WSC	446	457	466	470	471	471
CORYELL CITY WATER SUPPLY DISTRICT	31	34	36	36	36	35
CRAWFORD	(5)	(3)	(3)	(3)	(5)	(7)
CROSS COUNTRY WSC	76	79	82	0	0	0
ELM CREEK WSC	63	37	9	(24)	(54)	(85)
GHOLSON	772	760	749	737	723	709
GOLINDA	1	1	0	1	0	0
HALLSBURG	0	0	0	0	0	0
HEWITT	(87)	(237)	(211)	(204)	(215)	(231)
LACY-LAKEVIEW	348	303	261	212	154	95
LORENA	153	123	95	66	33	1
MART	(150)	(166)	(181)	(199)	(221)	(243)
MCGREGOR	2,066	2,040	2,004	1,904	1,842	1,759
MOODY	423	414	404	384	367	347
NORTH BOSQUE WSC	(14)	(146)	(265)	(385)	(507)	(628)
RIESEL	(11)	(11)	(11)	(12)	(15)	(19)
ROBINSON	72	(346)	(720)	(1,109)	(1,511)	(1,909)
TRI-COUNTY SUD	(3)	(4)	(3)	(4)	(5)	(6)
VALLEY MILLS	1	1	0	0	0	0
WACO	12,489	9,894	7,376	4,614	1,694	(1,348)
WEST	898	893	888	879	865	850
WEST BRAZOS WSC	(73)	(79)	(84)	(90)	(101)	(112)
WESTERN HILLS WS	332	318	306	294	282	270
WOODWAY	0	(7)	(20)	(57)	(74)	(103)
COUNTY-OTHER	84	204	301	344	349	340
MANUFACTURING	(1,664)	(1,916)	(2,204)	(2,417)	(2,664)	(2,834)
MINING	(2,264)	(2,726)	(2,786)	(3,234)	(3,558)	(3,942)
STEAM ELECTRIC POWER	22,931	21,000	20,224	18,744	17,963	17,129
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(2,298)	(2,313)	(2,325)	(2,337)	(2,350)	(2,363)
MILAM COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	528	513	494	482	458	432
BUCKHOLTS	176	174	173	171	168	165
CAMERON	1,256	1,206	1,174	1,115	1,059	1,003
MILANO WSC	40	15	9	1	5	2
ROCKDALE	841	662	174	320	355	308

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MILAM COUNTY						
BRAZOS BASIN						
SOUTHWEST MILAM WSC	604	388	124	186	151	57
THORNDALE	45	41	39	32	25	18
COUNTY-OTHER	656	643	632	617	605	592
MANUFACTURING	2	2	2	0	0	0
MINING	0	0	0	0	0	0
STEAM ELECTRIC POWER	1,096	(35)	(78)	(7,222)	(6,646)	(6,757)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	317	206	13	267	400	440
NOLAN COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	237	243	249	248	249	248
ROSCOE	84	80	79	73	67	62
SWEETWATER	(1,349)	(1,390)	(1,410)	(1,474)	(1,527)	(1,576)
COUNTY-OTHER	(104)	(107)	(108)	(113)	(119)	(125)
MANUFACTURING	(881)	(1,072)	(1,260)	(1,426)	(1,591)	(1,770)
MINING	(101)	(100)	(90)	(80)	(71)	(63)
STEAM ELECTRIC POWER	(13,526)	(23,916)	(23,916)	(23,916)	(23,916)	(23,916)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(1,490)	(1,372)	(1,257)	(1,147)	(1,040)	(940)
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
MINING	(124)	(122)	(110)	(98)	(87)	(78)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(993)	(915)	(837)	(765)	(693)	(627)
PALO PINTO COUNTY						
BRAZOS BASIN						
GRAFORD	31	30	29	28	26	25
MINERAL WELLS	0	0	0	0	0	0
POSSUM KINGDOM WSC	(58)	(106)	(137)	(167)	(192)	(213)
STEPHENS REGIONAL SUD	3	3	3	3	3	3
STRAWN	23	16	13	8	4	1
COUNTY-OTHER	1,306	1,290	1,287	1,258	1,229	1,204
MANUFACTURING	1,162	1,158	1,154	1,150	1,144	1,137
MINING	591	384	589	718	845	930
STEAM ELECTRIC POWER	9,842	9,412	9,028	8,627	8,227	7,839
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(2,588)	(2,547)	(2,513)	(2,472)	(2,431)	(2,394)
ROBERTSON COUNTY						
BRAZOS BASIN						
BREMOND	202	190	178	162	147	131
CALVERT	339	346	349	349	350	350
FRANKLIN	372	356	340	321	300	280
HEARNE	2,085	2,108	2,127	2,129	2,131	2,131
ROBERTSON COUNTY WSC	265	255	244	229	211	192
TRI-COUNTY SUD	(15)	(18)	(19)	(19)	(26)	(31)
WELLBORN SUD	73	17	(58)	(164)	(280)	(410)
WICKSON CREEK SUD	44	36	27	19	11	5

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
ROBERTSON COUNTY						
BRAZOS BASIN						
COUNTY-OTHER	318	245	168	92	23	(39)
MANUFACTURING	118	97	75	54	37	19
MINING	292	(1,548)	(3,563)	(6,017)	(9,012)	(12,735)
STEAM ELECTRIC POWER	16,438	3,320	(2,111)	(13,682)	(16,031)	(18,478)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(52,989)	(51,076)	(49,210)	(47,448)	(45,781)	(44,445)
SHACKELFORD COUNTY						
BRAZOS BASIN						
ALBANY	188	167	183	184	185	185
STEPHENS REGIONAL SUD	1	1	1	1	1	1
COUNTY-OTHER	0	0	0	0	0	0
MINING	(555)	(740)	(551)	(435)	(321)	(236)
LIVESTOCK	0	0	0	0	0	0
SOMERVELL COUNTY						
BRAZOS BASIN						
GLEN ROSE	141	86	47	15	(14)	(39)
COUNTY-OTHER	578	508	459	418	378	344
MANUFACTURING	12	11	10	9	8	7
MINING	(407)	(574)	(441)	(355)	(293)	(266)
STEAM ELECTRIC POWER	(35,496)	(35,509)	(35,521)	(35,534)	(35,547)	(35,559)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	21	22	22	23	24	25
STEPHENS COUNTY						
BRAZOS BASIN						
BRECKENRIDGE	879	870	878	880	874	869
FORT BELKNAPP WSC	0	0	(1)	(1)	(1)	(1)
POSSUM KINGDOM WSC	(2)	(4)	(5)	(6)	(7)	(8)
STEPHENS REGIONAL SUD	142	145	149	153	153	152
COUNTY-OTHER	51	52	55	56	55	55
MANUFACTURING	0	0	0	0	0	0
MINING	(4,064)	(4,141)	(3,458)	(2,825)	(2,257)	(1,773)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(30)	(29)	(27)	(26)	(25)	(24)
STONEWALL COUNTY						
BRAZOS BASIN						
ASPERMONT	138	119	92	79	73	58
COUNTY-OTHER	25	28	28	29	29	29
MINING	(409)	(401)	(337)	(271)	(213)	(163)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	62	67	72	77	81	85
TAYLOR COUNTY						
BRAZOS BASIN						
ABILENE	(679)	(5,146)	(6,092)	(7,054)	(8,110)	(9,110)
HAWLEY WSC	8	8	8	8	6	5
MERKEL	10	8	6	3	(4)	(9)
POTOSI WSC	(459)	(477)	(492)	(507)	(521)	(534)
STEAMBOAT MOUNTAIN WSC	(145)	(147)	(150)	(154)	(162)	(167)

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
TAYLOR COUNTY						
BRAZOS BASIN						
TUSCOLA	0	0	0	0	0	0
TYE	(2)	(4)	(6)	(9)	(13)	(15)
COUNTY-OTHER	408	408	407	393	383	374
MANUFACTURING	0	0	0	0	0	0
MINING	(293)	(293)	(274)	(259)	(247)	(236)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(150)	(141)	(133)	(124)	(116)	(108)
COLORADO BASIN						
COLEMAN COUNTY SUD	(6)	(6)	(6)	(6)	(7)	(7)
STEAMBOAT MOUNTAIN WSC	(37)	(38)	(39)	(40)	(41)	(43)
TUSCOLA	0	0	0	0	0	0
COUNTY-OTHER	10	10	9	7	5	4
MINING	(98)	(98)	(92)	(87)	(82)	(79)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(906)	(877)	(847)	(819)	(789)	(764)
THROCKMORTON COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	(1)	(2)	(1)	(1)	(2)	(3)
STEPHENS REGIONAL SUD	9	8	9	8	8	8
THROCKMORTON	143	147	150	150	151	151
COUNTY-OTHER	51	54	54	54	54	54
MINING	(194)	(191)	(171)	(150)	(132)	(116)
LIVESTOCK	0	0	0	0	0	0
WASHINGTON COUNTY						
BRAZOS BASIN						
BRENHAM	64	(216)	(399)	(604)	(779)	(927)
COUNTY-OTHER	126	112	114	87	45	5
MANUFACTURING	(61)	(126)	(191)	(248)	(320)	(398)
MINING	(569)	(866)	(703)	(538)	(373)	(264)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	151	151	151	151	151	151
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
WILLIAMSON COUNTY						
BRAZOS BASIN						
BARTLETT	(156)	(165)	(179)	(195)	(214)	(233)
BELL-MILAM FALLS WSC	101	117	136	155	168	180
BLOCK HOUSE MUD	253	270	279	284	286	287
BRUSHY CREEK MUD	(58)	(98)	(920)	(1,428)	(1,764)	(1,848)
CEDAR PARK	(1,570)	(2,913)	(2,961)	(3,172)	(3,160)	(3,154)
CHISHOLM TRAIL SUD	(2,129)	(3,211)	(4,592)	(6,093)	(7,809)	(9,590)
FERN BLUFF MUD	(63)	(161)	(253)	(261)	(259)	(259)
FLORENCE	(59)	(61)	(65)	(72)	(81)	(92)
GEORGETOWN	1,600	(2,194)	(6,695)	(11,781)	(17,840)	(24,121)
GRANGER	(113)	(121)	(133)	(148)	(169)	(190)
HUTTO	(2,333)	(3,755)	(5,558)	(7,503)	(9,710)	(11,994)

Water User Group (WUG) Needs/Surplus

REGION G	WUG (NEEDS)/SURPLUS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY						
BRAZOS BASIN						
JARRELL	0	0	0	0	0	0
JARRELL-SCHWERTNER WSC	714	726	761	583	405	207
JONAH WATER SUD	155	(266)	(818)	(1,525)	(2,229)	(2,977)
LEANDER	293	(3,429)	(8,808)	(16,783)	(22,403)	(28,639)
LIBERTY HILL	656	656	656	656	656	656
MANVILLE WSC	1,576	1,244	866	498	76	0
PFLUGERVILLE	67	48	25	0	0	0
ROUND ROCK	345	(5,881)	(13,902)	(24,026)	(34,609)	(45,767)
SOUTHWEST MILAM WSC	176	134	52	90	84	36
TAYLOR	0	0	0	0	0	0
THORNDALE	0	0	0	0	0	0
THRALL	0	0	0	0	0	0
WILLIAMSON COUNTY MUD #10	(61)	(181)	(352)	(489)	(587)	(688)
WILLIAMSON COUNTY MUD #11	(35)	(103)	(193)	(233)	(278)	(326)
WILLIAMSON COUNTY MUD #9	(37)	(128)	(263)	(319)	(382)	(448)
WILLIAMSON-TRAVIS COUNTY MUD #1	189	204	212	215	217	217
COUNTY-OTHER	(5,949)	(7,634)	(9,987)	(9,061)	(12,758)	(16,131)
MANUFACTURING	(11)	(10)	(11)	(11)	(11)	(11)
MINING	(4,748)	(5,832)	(6,949)	(8,140)	(9,367)	(10,771)
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(71)	(71)	(71)	(72)	(72)	(72)
COLORADO BASIN						
COUNTY-OTHER	(2,028)	(2,633)	(3,421)	(4,188)	(5,140)	(6,121)
YOUNG COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	(25)	(33)	(38)	(47)	(61)	(75)
GRAHAM	539	444	379	291	190	88
NEWCASTLE	0	0	0	0	0	0
COUNTY-OTHER	58	48	39	30	16	0
MANUFACTURING	0	0	0	0	0	0
MINING	(163)	(240)	(171)	(131)	(91)	(64)
STEAM ELECTRIC POWER	12,518	12,225	11,869	11,434	10,904	10,542
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	(51)	(50)	(48)	(47)	(45)	(44)
TRINITY BASIN						
FORT BELKNAPP WSC	(1)	(1)	(1)	(2)	(2)	(2)
COUNTY-OTHER	25	25	24	22	21	20
MINING	(24)	(36)	(25)	(20)	(14)	(9)
LIVESTOCK	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BELL COUNTY						
BRAZOS BASIN						
439 WSC	0	0	0	0	46	74
ARMSTRONG WSC	0	0	0	0	0	0
BARTLETT	121	126	137	155	163	169
BELL-MILAM FALLS WSC	0	0	0	0	0	0
BELTON	0	0	0	0	0	0
CHISHOLM TRAIL SUD	240	290	377	437	485	524
DOG RIDGE WSC	0	0	0	0	0	0
EAST BELL WSC	0	0	0	0	0	0
ELM CREEK WSC	0	0	0	34	78	126
FORT HOOD	0	0	0	0	0	0
HARKER HEIGHTS	0	0	0	0	134	1,167
HOLLAND	0	0	0	0	0	0
JARRELL-SCHWERTNER WSC	0	0	0	0	0	0
KEMPNER WSC	59	81	125	171	217	263
KILLEEN	0	0	0	0	0	0
LITTLE RIVER-ACADEMY	0	2	46	91	135	179
MOFFAT WSC	0	0	0	0	0	0
MORGAN'S POINT RESORT	0	0	0	0	0	0
NOLANVILLE	5	220	414	609	874	1,185
PENDLETON WSC	0	0	0	0	0	0
ROGERS	0	0	0	0	0	0
SALADO WSC	0	0	0	0	0	0
TEMPLE	0	0	0	453	829	1,487
TROY	0	0	0	0	0	0
WEST BELL COUNTY WSC	0	0	0	0	0	0
COUNTY-OTHER	0	0	695	1,734	2,707	3,650
MANUFACTURING	832	918	998	1,094	1,221	1,357
MINING	3,145	3,781	4,277	4,975	5,678	6,480
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	1,091	1,018	952	940	914	894
BOSQUE COUNTY						
BRAZOS BASIN						
CHILDRESS CREEK WSC	0	0	0	5	11	16
CLIFTON	0	0	0	0	0	0
CROSS COUNTRY WSC	0	0	0	124	130	136
MERIDIAN	0	0	0	0	0	0
VALLEY MILLS	0	0	0	0	0	0
WALNUT SPRINGS	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	1,786	2,034	2,265	2,517	2,811	3,130
MINING	1,784	1,838	1,631	1,612	1,576	1,565
STEAM ELECTRIC POWER	0	499	1,666	3,238	5,128	7,349
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	472	397	324	296	267	239
BRAZOS COUNTY						
BRAZOS BASIN						
BRYAN	0	0	898	7,159	13,872	21,416

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BRAZOS COUNTY						
BRAZOS BASIN						
COLLEGE STATION	4,294	5,439	3,907	3,850	3,753	3,475
TEXAS A & M UNIVERSITY	0	0	0	0	0	0
WELLBORN SUD	0	0	0	374	918	1,517
WICKSON CREEK SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	1,726	747	1,001	1,275	1,543	1,835
MINING	1,055	1,529	1,333	1,064	858	757
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	10,152	8,429	6,822	5,768	4,760	3,890
BURLESON COUNTY						
BRAZOS BASIN						
CALDWELL	0	0	0	0	0	0
DEANVILLE WSC	0	0	0	0	0	0
MILANO WSC	0	0	0	0	0	0
SNOOK	0	0	0	0	0	0
SOMERVILLE	0	0	0	0	0	0
SOUTHWEST MILAM WSC	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	14	31	50	67	85
MINING	965	1,827	1,406	1,023	638	398
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
CALLAHAN COUNTY						
BRAZOS BASIN						
BAIRD	0	0	0	0	0	0
CLYDE	0	0	0	0	0	0
POTOSI WSC	7	8	8	8	8	8
COUNTY-OTHER	0	0	0	0	0	0
MINING	115	112	103	98	92	87
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
COLORADO BASIN						
CLYDE	0	0	0	0	0	0
COLEMAN COUNTY SUD	9	9	9	9	9	10
CROSS PLAINS	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	106	104	96	89	85	80
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
COMANCHE COUNTY						
BRAZOS BASIN						
COMANCHE	0	0	0	0	0	0
DE LEON	0	0	0	0	0	0
COUNTY-OTHER	149	144	135	144	163	183
MANUFACTURING	0	0	0	0	0	0
MINING	404	473	311	231	149	93
LIVESTOCK	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
COMANCHE COUNTY						
BRAZOS BASIN						
IRRIGATION	69	603	0	0	0	0
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
CORYELL COUNTY						
BRAZOS BASIN						
COPPERAS COVE	0	0	0	0	0	0
CORYELL CITY WATER SUPPLY DISTRICT	0	0	0	0	0	0
ELM CREEK WSC	0	0	0	5	12	19
FORT HOOD	0	0	0	0	0	0
GATESVILLE	0	19	309	712	891	1,533
KEMPNER WSC	92	122	187	249	312	374
MULTI-COUNTY WSC	80	100	127	153	184	217
COUNTY-OTHER	0	0	0	93	171	515
MANUFACTURING	0	0	0	0	0	0
MINING	1,465	1,018	457	338	370	406
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
EASTLAND COUNTY						
BRAZOS BASIN						
CISCO	0	0	0	0	0	0
EASTLAND	0	0	0	0	0	0
GORMAN	0	0	0	0	0	0
RANGER	0	0	0	0	0	0
RISING STAR	0	0	0	0	0	0
STEPHENS REGIONAL SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	1,089	1,075	833	641	465	388
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	1,791	1,675	1,554	1,556	1,560	1,566
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
MINING	40	39	31	23	17	14
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	242	233	224	225	225	225
ERATH COUNTY						
BRAZOS BASIN						
DUBLIN	0	0	0	0	0	0
STEPHENVILLE	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	116	315
MANUFACTURING	0	0	0	0	0	0
MINING	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
FALLS COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
FALLS COUNTY						
BRAZOS BASIN						
BRUCEVILLE-EDDY	0	0	0	0	0	0
EAST BELL WSC	0	0	0	0	0	0
GOLINDA	0	0	0	0	0	0
LOTT	0	0	0	0	0	0
MARLIN	0	0	0	0	0	0
ROSEBUD	0	0	0	0	0	0
TRI-COUNTY SUD	46	52	52	49	60	72
WEST BRAZOS WSC	84	88	89	88	96	104
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	1	1	1	1	1	1
MINING	218	234	241	266	286	308
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
FISHER COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	0	0	0	0	0	0
ROBY	0	0	0	0	0	0
ROTAN	89	50	60	67	76	84
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	13	37	59	83	107	134
MINING	395	382	334	291	254	221
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
GRIMES COUNTY						
BRAZOS BASIN						
DOBBIN-PLANTERSVILLE WSC	0	0	0	0	0	0
G & W WSC	0	0	0	0	0	0
NAVASOTA	0	0	0	0	0	0
WICKSON CREEK SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	204	372	285	205	126	78
STEAM ELECTRIC POWER	3,524	3,524	3,526	3,524	3,526	3,525
LIVESTOCK	0	0	0	0	0	0
SAN JACINTO BASIN						
DOBBIN-PLANTERSVILLE WSC	0	0	0	0	0	0
G & W WSC	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	58	133	94	59	24	1
STEAM ELECTRIC POWER	5,656	5,657	5,658	5,658	5,657	5,658
LIVESTOCK	0	0	0	0	0	0
TRINITY BASIN						
WICKSON CREEK SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	18	34	26	19	11	7
LIVESTOCK	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
HAMILTON COUNTY						
BRAZOS BASIN						
HAMILTON	0	0	0	0	0	0
HICO	0	0	0	0	0	0
MULTI-COUNTY WSC	19	22	24	26	29	31
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	368	211	81	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	55	43	26	5	0	0
HASKELL COUNTY						
BRAZOS BASIN						
HASKELL	58	126	193	269	353	442
RULE	0	0	0	0	0	0
STAMFORD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	90	87	77	69	61	55
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	790	67	44	0	0	0
HILL COUNTY						
BRAZOS BASIN						
BRANDON-IRENE WSC	0	0	0	0	0	0
FILES VALLEY WSC	0	0	0	0	0	0
HILL COUNTY WSC	0	0	0	0	0	0
HILLSBORO	0	0	0	0	0	0
ITASCA	0	0	0	0	0	0
JOHNSON COUNTY SUD	0	0	0	0	0	2
PARKER WSC	0	0	0	0	3	6
WHITE BLUFF COMMUNITY WS	0	0	0	0	0	0
WHITNEY	0	0	0	0	0	0
WOODROW-OSCEOLA WSC	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	268	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
TRINITY BASIN						
BRANDON-IRENE WSC	0	0	0	0	0	0
FILES VALLEY WSC	0	0	0	0	0	0
HUBBARD	0	25	32	44	57	69
ITASCA	0	0	0	0	0	0
JOHNSON COUNTY SUD	0	0	0	0	0	0
PARKER WSC	0	0	0	0	1	1
COUNTY-OTHER	0	0	0	0	0	0
MINING	286	163	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
HOOD COUNTY						
BRAZOS BASIN						
ACTON MUD	0	0	0	0	0	156
CRESSON	0	0	7	19	30	39
GRANBURY	0	0	0	0	0	0
OAK TRAIL SHORES SUBDIVISION	0	0	0	0	0	0
TOLAR	0	0	0	1	11	19
COUNTY-OTHER	968	344	77	121	22	0
MANUFACTURING	0	0	0	0	0	0
MINING	776	1,072	825	744	661	674
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
TRINITY BASIN						
CRESSON	0	0	1	2	4	6
COUNTY-OTHER	0	0	0	0	0	0
MINING	16	18	17	16	15	15
LIVESTOCK	0	0	0	0	0	0
JOHNSON COUNTY						
BRAZOS BASIN						
ACTON MUD	0	0	0	0	0	4
BETHESDA WSC	38	47	52	63	80	96
BURLESON	2	3	4	4	5	6
CLEBURNE	0	0	0	0	283	1,490
CRESSON	0	0	3	3	2	5
GODLEY	0	0	0	0	8	25
JOHNSON COUNTY SUD	0	0	0	0	0	191
JOSHUA	0	0	0	0	0	0
KEENE	0	0	0	0	0	0
PARKER WSC	0	0	0	0	56	132
RIO VISTA	0	0	0	0	30	71
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	574	0	0	0	0	0
STEAM ELECTRIC POWER	5,446	5,306	5,166	5,166	5,166	5,166
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
TRINITY BASIN						
ALVARADO	0	0	0	0	0	0
BETHANY WSC	0	0	0	0	0	0
BETHESDA WSC	777	920	2,070	2,454	2,837	3,221
BURLESON	1,431	2,331	3,262	4,055	4,976	6,033
CRESSON	0	0	1	3	7	8
CROWLEY	2	4	7	12	18	23
FORT WORTH	0	0	0	241	482	707
GRANDVIEW	0	0	0	0	0	0
JOHNSON COUNTY SUD	0	0	0	0	0	521
JOSHUA	0	0	0	0	0	0
KEENE	0	0	0	0	0	0
MANSFIELD	171	322	533	842	1,115	1,423

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
JOHNSON COUNTY						
TRINITY BASIN						
MOUNTAIN PEAK SUD	0	0	0	0	0	0
PARKER WSC	0	0	0	0	17	40
VENUS	127	138	215	309	407	506
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	566	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
JONES COUNTY						
BRAZOS BASIN						
ABILENE	0	134	183	237	287	334
ANSON	0	0	0	0	0	0
HAMLIN	0	0	0	0	0	0
HAWLEY	0	0	0	0	0	0
HAWLEY WSC	0	0	0	0	0	0
STAMFORD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	232	222	203	185	170	157
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	174	35	0	0	0	0
KENT COUNTY						
BRAZOS BASIN						
JAYTON	89	85	85	85	85	85
COUNTY-OTHER	0	0	0	0	0	0
MINING	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
KNOX COUNTY						
BRAZOS BASIN						
KNOX CITY	39	58	73	100	136	171
MUNDAY	47	65	89	127	164	200
COUNTY-OTHER	0	0	0	0	0	0
MINING	12	11	10	10	10	10
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
RED BASIN						
COUNTY-OTHER	0	0	0	0	0	0
MINING	3	3	3	3	3	3
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	2,031	3,514	5,773	6,618	3,356	2,566
LAMPASAS COUNTY						
BRAZOS BASIN						
COPPERAS COVE	0	0	0	0	0	0
KEMPNER	0	0	0	0	0	0
KEMPNER WSC	290	386	554	715	863	999
LAMPASAS	22	148	227	318	414	505
LOMETA	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
LAMPASAS COUNTY						
BRAZOS BASIN						
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	119	133	143	157	174	193
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
COLORADO BASIN						
LOMETA	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	48	52	56	61	67	73
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	207	196	186	182	180	176
LEE COUNTY						
BRAZOS BASIN						
AQUA WSC	0	0	0	0	0	0
GIDDINGS	0	0	0	0	0	0
LEE COUNTY WSC	0	0	0	0	0	0
LEXINGTON	0	0	0	0	0	0
SOUTHWEST MILAM WSC	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	2,406	5,401	5,634	6,024	6,459	6,986
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
COLORADO BASIN						
GIDDINGS	0	0	0	0	0	0
LEE COUNTY WSC	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	679	1,524	1,589	1,699	1,822	1,971
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
LIMESTONE COUNTY						
BRAZOS BASIN						
COOLIDGE	0	5	21	40	59	79
GROESBECK	686	677	668	665	668	672
MART	0	1	1	1	1	2
MEXIA	0	0	0	0	0	0
THORNTON	0	0	0	0	0	0
TRI-COUNTY SUD	18	19	20	20	23	28
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	8,397	7,865	7,630	8,036	8,435	8,965
STEAM ELECTRIC POWER	0	0	0	2,430	7,962	7,129
LIVESTOCK	0	0	0	0	0	0
TRINITY BASIN						
COOLIDGE	0	3	16	30	46	61
MEXIA	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
LIMESTONE COUNTY						
TRINITY BASIN						
MINING	800	754	734	769	804	850
LIVESTOCK	0	0	0	0	0	0
MCLENNAN COUNTY						
BRAZOS BASIN						
BELLMEAD	0	0	0	0	0	0
BEVERLY HILLS	0	0	0	0	0	0
BRUCEVILLE-EDDY	0	0	0	0	0	0
CHALK BLUFF WSC	0	0	0	0	0	0
CORYELL CITY WATER SUPPLY DISTRICT	0	0	0	0	0	0
CRAWFORD	0	0	0	0	0	0
CROSS COUNTRY WSC	0	0	0	0	0	0
ELM CREEK WSC	0	0	0	24	54	85
GHOLSON	0	0	0	0	0	0
GOLINDA	0	0	0	0	0	0
HALLSBURG	0	0	0	0	0	0
HEWITT	0	0	0	0	0	0
LACY-LAKEVIEW	0	0	0	0	0	0
LORENA	0	0	0	0	0	0
MART	150	165	181	199	221	242
MCGREGOR	0	0	0	0	0	0
MOODY	0	0	0	0	0	0
NORTH BOSQUE WSC	0	47	82	105	117	176
RIESEL	11	11	11	12	15	19
ROBINSON	0	30	213	560	906	1,246
TRI-COUNTY SUD	3	4	3	4	5	6
VALLEY MILLS	0	0	0	0	0	0
WACO	0	0	0	0	0	0
WEST	0	0	0	0	0	0
WEST BRAZOS WSC	73	79	84	90	101	112
WESTERN HILLS WS	0	0	0	0	0	0
WOODWAY	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	1,377	1,765	1,761	2,177	2,479	2,836
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	2,152	2,069	1,984	1,996	2,010	2,023
MILAM COUNTY						
BRAZOS BASIN						
BELL-MILAM FALLS WSC	0	0	0	0	0	0
BUCKHOLTS	0	0	0	0	0	0
CAMERON	0	0	0	0	0	0
MILANO WSC	0	0	0	0	0	0
ROCKDALE	0	0	0	0	0	0
SOUTHWEST MILAM WSC	0	0	0	0	0	0
THORNDALE	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
MILAM COUNTY						
BRAZOS BASIN						
MINING	0	0	0	0	0	0
STEAM ELECTRIC POWER	0	0	0	4,353	3,777	3,888
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
NOLAN COUNTY						
BRAZOS BASIN						
BITTER CREEK WSC	0	0	0	0	0	0
ROSCOE	0	0	0	0	0	0
SWEETWATER	1,310	1,390	1,410	1,474	1,527	1,576
COUNTY-OTHER	104	107	108	113	119	125
MANUFACTURING	838	991	1,134	1,288	1,442	1,608
MINING	98	95	84	75	66	59
STEAM ELECTRIC POWER	7,914	18,304	18,304	18,304	17,955	16,702
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	1,357	1,155	962	860	760	667
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
MINING	120	116	102	91	81	72
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	904	771	640	573	507	445
PALO PINTO COUNTY						
BRAZOS BASIN						
GRAFORD	0	0	0	0	0	0
MINERAL WELLS	0	0	0	0	0	0
POSSUM KINGDOM WSC	7	0	0	0	0	0
STEPHENS REGIONAL SUD	0	0	0	0	0	0
STRAWN	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	0	0	0	0	0	0
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	2,494	2,392	2,299	2,260	2,222	2,188
ROBERTSON COUNTY						
BRAZOS BASIN						
BREMOND	0	0	0	0	0	0
CALVERT	0	0	0	0	0	0
FRANKLIN	0	0	0	0	0	0
HEARNE	0	0	0	0	0	0
ROBERTSON COUNTY WSC	0	0	0	0	0	0
TRI-COUNTY SUD	15	18	19	19	26	31
WELLBORN SUD	0	0	0	73	177	294
WICKSON CREEK SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	39
MANUFACTURING	0	0	0	0	0	0
MINING	0	960	2,599	4,881	7,667	11,129
STEAM ELECTRIC POWER	0	0	0	1,393	3,592	5,881
LIVESTOCK	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
ROBERTSON COUNTY						
BRAZOS BASIN						
IRRIGATION	51,086	47,996	45,021	43,379	41,829	40,586
SHACKELFORD COUNTY						
BRAZOS BASIN						
ALBANY	0	0	0	0	0	0
STEPHENS REGIONAL SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	538	703	512	404	298	219
LIVESTOCK	0	0	0	0	0	0
SOMERVELL COUNTY						
BRAZOS BASIN						
GLEN ROSE	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	374	510	361	281	223	198
STEAM ELECTRIC POWER	35,496	35,509	35,521	35,534	35,547	35,559
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
STEPHENS COUNTY						
BRAZOS BASIN						
BRECKENRIDGE	0	0	0	0	0	0
FORT BELKNAPP WSC	0	0	1	1	1	1
POSSUM KINGDOM WSC	0	0	0	0	0	0
STEPHENS REGIONAL SUD	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	3,912	3,884	3,146	2,557	2,029	1,579
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	26	23	19	18	17	16
STONEWALL COUNTY						
BRAZOS BASIN						
ASPERMONT	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	391	372	301	240	186	139
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
TAYLOR COUNTY						
BRAZOS BASIN						
ABILENE	0	2,918	3,945	5,100	6,161	7,136
HAWLEY WSC	0	0	0	0	0	0
MERKEL	0	0	0	0	4	9
POTOSI WSC	459	477	492	507	521	534
STEAMBOAT MOUNTAIN WSC	145	147	150	154	162	167
TUSCOLA	0	0	0	0	0	0
TYE	2	4	6	9	13	15
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	284	278	255	241	230	220
LIVESTOCK	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
TAYLOR COUNTY						
BRAZOS BASIN						
IRRIGATION	139	124	109	101	94	86
COLORADO BASIN						
COLEMAN COUNTY SUD	5	5	5	5	6	6
STEAMBOAT MOUNTAIN WSC	37	38	39	40	41	43
TUSCOLA	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	95	93	85	81	76	73
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	870	818	767	741	713	690
THROCKMORTON COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	1	2	1	1	2	3
STEPHENS REGIONAL SUD	0	0	0	0	0	0
THROCKMORTON	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MINING	188	181	159	139	123	108
LIVESTOCK	0	0	0	0	0	0
WASHINGTON COUNTY						
BRAZOS BASIN						
BRENHAM	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	40	88	133	186	253	326
MINING	552	823	654	500	347	246
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	0	0	0	0	0	0
COLORADO BASIN						
COUNTY-OTHER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
WILLIAMSON COUNTY						
BRAZOS BASIN						
BARTLETT	149	144	147	161	163	163
BELL-MILAM FALLS WSC	0	0	0	0	0	0
BLOCK HOUSE MUD	0	0	0	0	0	0
BRUSHY CREEK MUD	0	0	0	11	12	0
CEDAR PARK	1,030	1,106	85	0	0	0
CHISHOLM TRAIL SUD	1,946	2,550	3,645	4,518	5,419	6,226
FERN BLUFF MUD	0	0	0	0	0	0
FLORENCE	59	61	65	72	81	92
GEORGETOWN	0	0	1,627	3,640	6,472	8,275
GRANGER	113	121	133	148	169	190
HUTTO	2,333	3,755	5,558	7,503	9,710	11,994
JARRELL	0	0	0	0	0	0
JARRELL-SCHWERTNER WSC	0	0	0	0	0	0
JONAH WATER SUD	0	266	818	1,525	2,229	2,977
LEANDER	0	3,429	8,808	16,783	22,403	28,639
LIBERTY HILL	0	0	0	0	0	0
MANVILLE WSC	0	0	0	0	0	0
PFLUGERVILLE	0	0	0	0	0	0

Water User Group (WUG) Second-Tier Identified Water Need

REGION G	WUG SECOND-TIER NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
WILLIAMSON COUNTY						
BRAZOS BASIN						
ROUND ROCK	0	5,763	12,852	21,225	29,339	37,380
SOUTHWEST MILAM WSC	0	0	0	0	0	0
TAYLOR	0	0	0	0	0	0
THORNDALE	0	0	0	0	0	0
THRALL	0	0	0	0	0	0
WILLIAMSON COUNTY MUD #10	0	0	0	0	0	0
WILLIAMSON COUNTY MUD #11	0	0	0	0	0	0
WILLIAMSON COUNTY MUD #9	0	0	0	0	0	0
WILLIAMSON-TRAVIS COUNTY MUD #1	0	0	0	0	0	0
COUNTY-OTHER	5,949	7,634	9,945	8,667	11,730	14,243
MANUFACTURING	0	0	0	0	0	0
MINING	4,593	5,520	6,434	7,541	8,682	9,988
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	66	63	60	61	61	61
COLORADO BASIN						
COUNTY-OTHER	2,028	2,633	3,407	4,015	4,736	5,415
YOUNG COUNTY						
BRAZOS BASIN						
FORT BELKNAPP WSC	25	33	38	47	61	75
GRAHAM	0	0	0	0	0	0
NEWCASTLE	0	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	158	228	159	121	85	60
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	49	47	45	44	42	41
TRINITY BASIN						
FORT BELKNAPP WSC	1	1	1	2	2	2
COUNTY-OTHER	0	0	0	0	0	0
MINING	23	34	23	19	13	8
LIVESTOCK	0	0	0	0	0	0

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

Water User Group (WUG) Second-Tier Identified Water Need Summary

REGION G

	2020	2030	2040	2050	2060	2070
MUNICIPAL	16,816	34,689	55,505	89,499	122,970	160,278
COUNTY-OTHER	9,198	10,862	14,367	14,887	19,764	24,485
MANUFACTURING	5,236	4,830	5,622	6,494	7,445	8,476
MINING	39,404	46,029	45,095	48,055	51,895	57,769
STEAM ELECTRIC POWER	58,036	68,799	69,841	79,600	88,310	90,857
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	76,217	71,668	67,811	65,623	59,517	56,359

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

Source Water Balance (Availability- WUG Supply)

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
BLAINE AQUIFER	FISHER	BRAZOS	FRESH	1,547	1,547	1,547	1,547	1,547	1,547
BLAINE AQUIFER	KNOX	BRAZOS	FRESH	475	475	475	475	475	475
BLAINE AQUIFER	NOLAN	BRAZOS	FRESH	100	100	100	100	100	100
BLAINE AQUIFER	STONEWALL	BRAZOS	FRESH	8,571	8,571	8,571	8,571	8,571	8,571
BRAZOS RIVER ALLUVIUM AQUIFER	BOSQUE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RIVER ALLUVIUM AQUIFER	BRAZOS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RIVER ALLUVIUM AQUIFER	BURLESON	BRAZOS	FRESH	416	416	416	416	416	416
BRAZOS RIVER ALLUVIUM AQUIFER	FALLS	BRAZOS	FRESH	10,353	10,353	10,353	10,353	10,353	10,353
BRAZOS RIVER ALLUVIUM AQUIFER	GRIMES	BRAZOS	FRESH	5,112	5,112	5,112	5,112	5,112	5,112
BRAZOS RIVER ALLUVIUM AQUIFER	HILL	BRAZOS	FRESH	227	227	227	227	227	227
BRAZOS RIVER ALLUVIUM AQUIFER	MCLENNAN	BRAZOS	FRESH	13,726	13,726	13,726	13,726	13,726	13,726
BRAZOS RIVER ALLUVIUM AQUIFER	MILAM	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RIVER ALLUVIUM AQUIFER	ROBERTSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RIVER ALLUVIUM AQUIFER	WASHINGTON	BRAZOS	FRESH	5,688	5,688	5,688	5,688	5,688	5,688
CARRIZO-WILCOX AQUIFER	BRAZOS	BRAZOS	FRESH	0	0	2,461	7,010	10,209	10,209
CARRIZO-WILCOX AQUIFER	BURLESON	BRAZOS	FRESH	17,122	21,920	26,391	30,365	32,574	32,574
CARRIZO-WILCOX AQUIFER	FALLS	BRAZOS	FRESH	241	249	258	269	269	269
CARRIZO-WILCOX AQUIFER	GRIMES	BRAZOS	FRESH	2,850	2,850	2,850	2,850	2,850	2,850
CARRIZO-WILCOX AQUIFER	GRIMES	SAN JACINTO	FRESH	3,480	3,480	3,480	3,480	3,480	3,480
CARRIZO-WILCOX AQUIFER	GRIMES	TRINITY	FRESH	5,288	5,288	5,288	5,288	5,288	5,288
CARRIZO-WILCOX AQUIFER	LEE	BRAZOS	FRESH	12,254	11,559	12,731	14,682	15,207	15,207
CARRIZO-WILCOX AQUIFER	LEE	COLORADO	FRESH	876	950	1,000	1,252	1,280	1,280
CARRIZO-WILCOX AQUIFER	LIMESTONE	BRAZOS	FRESH	7,293	7,423	7,603	7,905	7,905	7,905
CARRIZO-WILCOX AQUIFER	LIMESTONE	TRINITY	FRESH	888	888	888	888	888	888
CARRIZO-WILCOX AQUIFER	MILAM	BRAZOS	FRESH	400	0	0	48	49	49
CARRIZO-WILCOX AQUIFER	ROBERTSON	BRAZOS	FRESH	19,590	19,969	20,393	20,737	20,738	20,738
CARRIZO-WILCOX AQUIFER	WILLIAMSON	BRAZOS	FRESH	0	0	0	0	0	0
CARRIZO-WILCOX AQUIFER	WILLIAMSON	COLORADO	FRESH	0	0	0	0	0	0
DOCKUM AQUIFER	FISHER	BRAZOS	FRESH	602	602	602	602	602	602
DOCKUM AQUIFER	KENT	BRAZOS	FRESH	4,937	4,937	4,937	4,937	4,937	4,937
DOCKUM AQUIFER	NOLAN	BRAZOS	FRESH	672	672	672	672	672	672

Source Water Balance (Availability- WUG Supply)

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
DOCKUM AQUIFER	NOLAN	COLORADO	FRESH	0	0	0	0	0	0
EDWARDS-BFZ AQUIFER	BELL	BRAZOS	FRESH	4,196	4,196	4,196	4,196	4,196	4,196
EDWARDS-BFZ AQUIFER	WILLIAMSON	BRAZOS	FRESH	0	0	0	0	0	0
EDWARDS-BFZ AQUIFER	WILLIAMSON	COLORADO	FRESH	101	101	101	101	101	101
EDWARDS-TRINITY-PLATEAU AQUIFER	NOLAN	BRAZOS	FRESH	32	32	32	32	32	32
EDWARDS-TRINITY-PLATEAU AQUIFER	NOLAN	COLORADO	FRESH	266	266	266	266	266	266
EDWARDS-TRINITY-PLATEAU AQUIFER	TAYLOR	BRAZOS	FRESH	0	0	0	0	0	0
EDWARDS-TRINITY-PLATEAU AQUIFER	TAYLOR	COLORADO	FRESH	14	14	14	14	14	14
ELLENBURGER-SAN SABA AQUIFER	LAMPASAS	BRAZOS	FRESH	607	607	607	607	607	607
ELLENBURGER-SAN SABA AQUIFER	LAMPASAS	COLORADO	FRESH	1,973	1,973	1,973	1,973	1,973	1,973
GULF COAST AQUIFER	BRAZOS	BRAZOS	FRESH	530	530	530	530	530	530
GULF COAST AQUIFER	GRIMES	BRAZOS	FRESH	6,766	6,645	6,551	6,449	6,364	6,288
GULF COAST AQUIFER	GRIMES	SAN JACINTO	FRESH	1,286	1,252	1,227	1,199	1,175	1,154
GULF COAST AQUIFER	GRIMES	TRINITY	FRESH	763	222	0	0	0	0
GULF COAST AQUIFER	WASHINGTON	BRAZOS	FRESH	9,407	9,407	9,039	9,039	9,039	9,039
GULF COAST AQUIFER	WASHINGTON	COLORADO	FRESH	63	63	63	63	63	63
HICKORY AQUIFER	LAMPASAS	BRAZOS	FRESH	66	66	66	66	66	66
HICKORY AQUIFER	LAMPASAS	COLORADO	FRESH	47	47	47	47	47	47
HICKORY AQUIFER	WILLIAMSON	BRAZOS	FRESH	15	15	15	15	15	15
HICKORY AQUIFER	WILLIAMSON	COLORADO	FRESH	0	0	0	0	0	0
MARBLE FALLS AQUIFER	LAMPASAS	BRAZOS	FRESH	505	505	505	505	505	505
MARBLE FALLS AQUIFER	LAMPASAS	COLORADO	FRESH	2,313	2,313	2,313	2,313	2,313	2,313
NAVASOTA RIVER ALLUVIUM AQUIFER	GRIMES	BRAZOS	FRESH	2,216	2,216	2,216	2,216	2,216	2,216
OTHER AQUIFER	SHACKELFORD	BRAZOS	FRESH	809	809	809	809	809	809
OTHER AQUIFER	STEPHENS	BRAZOS	FRESH	412	412	412	412	412	412
OTHER AQUIFER	THROCKMORTON	BRAZOS	FRESH	364	364	364	364	364	364
OTHER AQUIFER	WILLIAMSON	BRAZOS	FRESH	0	0	0	0	0	0
OTHER AQUIFER	YOUNG	BRAZOS	FRESH	320	320	310	310	310	310
OTHER AQUIFER	YOUNG	RED	FRESH	163	163	163	163	163	163
OTHER AQUIFER	YOUNG	TRINITY	FRESH	134	134	134	134	134	134
QUEEN CITY AQUIFER	BRAZOS	BRAZOS	FRESH	204	234	187	133	129	129
QUEEN CITY AQUIFER	BURLESON	BRAZOS	FRESH	92	123	123	123	123	123
QUEEN CITY AQUIFER	GRIMES	BRAZOS	FRESH	555	555	555	555	555	555
QUEEN CITY AQUIFER	GRIMES	TRINITY	FRESH	82	82	82	82	82	82
QUEEN CITY AQUIFER	LEE	BRAZOS	FRESH	3	0	0	0	0	0
QUEEN CITY AQUIFER	LEE	COLORADO	FRESH	48	54	55	57	57	57
QUEEN CITY AQUIFER	MILAM	BRAZOS	FRESH	0	0	0	0	0	0
QUEEN CITY AQUIFER	ROBERTSON	BRAZOS	FRESH	0	0	0	0	0	0
QUEEN CITY AQUIFER	WASHINGTON	BRAZOS	FRESH	1	1	1	1	1	1

Source Water Balance (Availability- WUG Supply)

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
SEYMOUR AQUIFER	FISHER	BRAZOS	FRESH	987	983	972	967	785	785
SEYMOUR AQUIFER	HASKELL	BRAZOS	FRESH	0	0	0	0	0	0
SEYMOUR AQUIFER	JONES	BRAZOS	FRESH	44	44	44	44	44	44
SEYMOUR AQUIFER	KENT	BRAZOS	FRESH	546	545	545	544	544	544
SEYMOUR AQUIFER	KNOX	BRAZOS	FRESH	0	0	0	0	0	0
SEYMOUR AQUIFER	KNOX	RED	FRESH	1,571	1,345	1,193	1,116	1,041	1,041
SEYMOUR AQUIFER	STONEWALL	BRAZOS	FRESH	50	47	41	32	31	31
SEYMOUR AQUIFER	THROCKMORTON	BRAZOS	FRESH	115	115	115	115	115	115
SEYMOUR AQUIFER	YOUNG	BRAZOS	FRESH	309	258	258	258	258	258
SPARTA AQUIFER	BRAZOS	BRAZOS	FRESH	2	0	0	0	0	0
SPARTA AQUIFER	BURLESON	BRAZOS	FRESH	740	2,536	4,107	5,229	5,229	5,229
SPARTA AQUIFER	GRIMES	BRAZOS	FRESH	1,280	1,280	1,280	1,280	1,280	1,280
SPARTA AQUIFER	GRIMES	SAN JACINTO	FRESH	20	20	20	20	20	20
SPARTA AQUIFER	GRIMES	TRINITY	FRESH	1,271	1,271	1,271	1,271	1,271	1,271
SPARTA AQUIFER	LEE	BRAZOS	FRESH	0	0	0	0	0	0
SPARTA AQUIFER	LEE	COLORADO	FRESH	172	168	164	159	159	159
SPARTA AQUIFER	ROBERTSON	BRAZOS	FRESH	0	0	0	68	68	68
SPARTA AQUIFER	WASHINGTON	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	BELL	BRAZOS	FRESH	1,028	1,028	1,028	1,028	1,028	1,028
TRINITY AQUIFER	BOSQUE	BRAZOS	FRESH	712	712	712	712	712	747
TRINITY AQUIFER	CALLAHAN	BRAZOS	FRESH	1,291	1,291	1,291	1,291	1,291	1,291
TRINITY AQUIFER	CALLAHAN	COLORADO	FRESH	746	746	746	746	746	746
TRINITY AQUIFER	COMANCHE	BRAZOS	FRESH	9,854	9,854	9,854	9,854	9,854	9,854
TRINITY AQUIFER	COMANCHE	COLORADO	FRESH	101	101	101	101	101	101
TRINITY AQUIFER	CORYELL	BRAZOS	FRESH	2,862	2,862	2,862	2,862	2,862	2,862
TRINITY AQUIFER	EASTLAND	BRAZOS	FRESH	1	1	1	1	1	1
TRINITY AQUIFER	EASTLAND	COLORADO	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	ERATH	BRAZOS	FRESH	17,888	17,888	17,888	17,888	17,888	17,888
TRINITY AQUIFER	FALLS	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	HAMILTON	BRAZOS	FRESH	790	790	790	790	790	790
TRINITY AQUIFER	HILL	BRAZOS	FRESH	229	229	229	229	229	229
TRINITY AQUIFER	HILL	TRINITY	FRESH	1	1	1	1	1	1
TRINITY AQUIFER	HOOD	BRAZOS	FRESH	2,272	2,272	2,272	2,295	2,295	2,295
TRINITY AQUIFER	HOOD	TRINITY	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	JOHNSON	BRAZOS	FRESH	1	1	1	1	1	1
TRINITY AQUIFER	JOHNSON	TRINITY	FRESH	1	1	1	1	1	74
TRINITY AQUIFER	LAMPASAS	BRAZOS	FRESH	2,549	2,549	2,549	2,549	2,549	2,549
TRINITY AQUIFER	LAMPASAS	COLORADO	FRESH	46	46	46	46	46	46
TRINITY AQUIFER	LIMESTONE	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	LIMESTONE	TRINITY	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	MCLENNAN	BRAZOS	FRESH	4,075	4,075	4,075	4,305	4,305	4,305
TRINITY AQUIFER	MILAM	BRAZOS	FRESH	288	288	288	288	288	288

Source Water Balance (Availability- WUG Supply)

REGION G

GROUNDWATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
TRINITY AQUIFER	PALO PINTO	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	SOMERVELL	BRAZOS	FRESH	896	896	896	896	896	896
TRINITY AQUIFER	TAYLOR	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	TAYLOR	COLORADO	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	WILLIAMSON	BRAZOS	FRESH	0	0	0	0	0	0
TRINITY AQUIFER	WILLIAMSON	COLORADO	FRESH	68	68	68	68	68	68
WOODBINE AQUIFER	HILL	BRAZOS	FRESH	546	546	546	546	546	546
WOODBINE AQUIFER	HILL	TRINITY	FRESH	1,012	1,012	1,012	1,012	1,012	1,012
WOODBINE AQUIFER	JOHNSON	BRAZOS	FRESH	75	75	75	75	75	75
WOODBINE AQUIFER	JOHNSON	TRINITY	FRESH	3,817	3,817	3,817	3,817	3,817	3,817
WOODBINE AQUIFER	LIMESTONE	BRAZOS	FRESH	34	34	34	34	34	34
WOODBINE AQUIFER	MCLENNAN	BRAZOS	FRESH	5	5	5	5	5	5
YEGUA-JACKSON AQUIFER	BRAZOS	BRAZOS	FRESH	5,753	5,753	5,753	5,753	5,753	5,753
YEGUA-JACKSON AQUIFER	BURLESON	BRAZOS	FRESH	11,805	11,805	11,805	11,805	11,805	11,805
YEGUA-JACKSON AQUIFER	GRIMES	BRAZOS	FRESH	1,954	1,954	1,954	1,954	1,954	1,954
YEGUA-JACKSON AQUIFER	GRIMES	SAN JACINTO	FRESH	80	80	80	80	80	80
YEGUA-JACKSON AQUIFER	GRIMES	TRINITY	FRESH	1,244	1,244	1,244	1,244	1,244	1,244
YEGUA-JACKSON AQUIFER	LEE	BRAZOS	FRESH	297	297	297	297	297	297
YEGUA-JACKSON AQUIFER	LEE	COLORADO	FRESH	338	338	338	338	338	338
YEGUA-JACKSON AQUIFER	WASHINGTON	BRAZOS	FRESH	134	134	134	134	134	134
YEGUA-JACKSON AQUIFER	WASHINGTON	COLORADO	FRESH	0	0	0	0	0	0
GROUNDWATER TOTAL SOURCE WATER BALANCE				**236,961**	**242,128**	**251,528**	**264,123**	**269,715**	**269,726**

REGION G

REUSE	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
DIRECT REUSE	TAYLOR	BRAZOS	FRESH	1,016	1,016	1,016	1,016	1,016	1,016
DIRECT REUSE - CLEBURNE | CLEBURNE/CLEBURNE	JOHNSON	BRAZOS	FRESH	0	0	0	0	0	0
DIRECT REUSE - WMARSS | WACO/WACO	MCLENNAN	BRAZOS	FRESH	0	0	0	0	0	360
DIRECT REUSE | ROUND ROCK WWTP/ROUND ROCK IRRIGATION	WILLIAMSON	BRAZOS	FRESH	0	0	0	0	0	0
REUSE TOTAL SOURCE WATER BALANCE				**1,016**	**1,016**	**1,016**	**1,016**	**1,016**	**1,376**

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
ABILENE LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,075	940	805	670	535	400

Source Water Balance (Availability- WUG Supply)

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
ALCOA LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
ALVARADO LAKE/RESERVOIR	RESERVOIR	TRINITY	FRESH	800	800	800	800	800	800
ANSON NORTH LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	202	202	202	202	202	202
BAIRD LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	BELL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	BOSQUE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	BRAZOS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	BURLESON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	CALLAHAN	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	COMANCHE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	CORYELL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	EASTLAND	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	ERATH	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	FALLS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	FISHER	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	GRIMES	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	HAMILTON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	HASKELL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	HILL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	HOOD	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	JOHNSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	JONES	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	KENT	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	KNOX	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	LAMPASAS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	LEE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	LIMESTONE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	MCLENNAN	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	MILAM	BRAZOS	FRESH	0	0	0	0	0	0

Source Water Balance (Availability- WUG Supply)

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
BRAZOS LIVESTOCK LOCAL SUPPLY	NOLAN	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	PALO PINTO	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	ROBERTSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	SHACKELFORD	BRAZOS	FRESH	2	2	2	2	2	2
BRAZOS LIVESTOCK LOCAL SUPPLY	SOMERVELL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	STEPHENS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	STONEWALL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	TAYLOR	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	THROCKMORTON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	WASHINGTON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	WILLIAMSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS LIVESTOCK LOCAL SUPPLY	YOUNG	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	RESERVOIR	BRAZOS	FRESH	1,913	1,670	1,427	1,183	940	697
BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	RESERVOIR	BRAZOS	FRESH	26,662	26,664	26,196	29,190	29,448	29,435
BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	RESERVOIR	BRAZOS	FRESH	64,738	59,903	55,070	50,235	45,579	43,674
BRAZOS RUN-OF-RIVER	BELL	BRAZOS	FRESH	944	1,051	1,159	1,266	1,373	1,481
BRAZOS RUN-OF-RIVER	BOSQUE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	BRAZOS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	CORYELL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	EASTLAND	BRAZOS	FRESH	273	267	260	256	248	233
BRAZOS RUN-OF-RIVER	ERATH	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	FALLS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	FISHER	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	GRIMES	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	HAMILTON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	HILL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	JOHNSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	JONES	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	KNOX	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	LAMPASAS	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	LEE	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	LIMESTONE	BRAZOS	FRESH	14	14	14	14	14	14

Source Water Balance (Availability- WUG Supply)

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
BRAZOS RUN-OF-RIVER	MCLENNAN	BRAZOS	FRESH	4,895	4,895	4,895	4,895	4,895	4,895
BRAZOS RUN-OF-RIVER	MILAM	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	NOLAN	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	ROBERTSON	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	SHACKELFORD	BRAZOS	FRESH	50	50	50	50	50	50
BRAZOS RUN-OF-RIVER	SOMERVELL	BRAZOS	FRESH	600	600	600	600	600	600
BRAZOS RUN-OF-RIVER	STONEWALL	BRAZOS	FRESH	0	0	0	0	0	0
BRAZOS RUN-OF-RIVER	THROCKMORTON	BRAZOS	FRESH	8	8	8	8	8	8
BRAZOS RUN-OF-RIVER	WILLIAMSON	BRAZOS	FRESH	100	100	100	100	100	100
CISCO LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
CITY OF HAMLIN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	250	250	250	250	250	250
CLIFTON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	164	164	164	164	164	164
CLYDE LAKE/RESERVOIR	RESERVOIR	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	CALLAHAN	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	COMANCHE	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	EASTLAND	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	LAMPASAS	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	LEE	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	NOLAN	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	TAYLOR	COLORADO	FRESH	0	0	0	0	0	0
COLORADO LIVESTOCK LOCAL SUPPLY	WASHINGTON	COLORADO	FRESH	0	0	0	0	0	0
COOLIDGE LAKE/RESERVOIR	RESERVOIR	TRINITY	FRESH	162	162	162	162	162	162
CRAWFORD LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
DANIEL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
DANSBY POWER PLANT/BRYAN UTILITIES LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
EASTLAND LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	460	458	456	454	452	450
FORT PHANTOM HILL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,650	1,592	1,534	1,476	1,418	1,360
GIBBONS CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
GORDON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
GRAHAM/EDDLEMAN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,390	1,222	1,054	886	718	550
HUBBARD CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	3,174	3,172	3,168	3,165	3,164	3,162
KIRBY LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	525	514	503	492	481	470

Source Water Balance (Availability- WUG Supply)

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
LAKE CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
LAKE DAVIS LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
LEON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	149	117	86	55	23	0
LYTLE LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	230	230	230	230	230	230
MCCARTY LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
MEXIA LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
MILLERS CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	752	603	481	361	238	121
MORAN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	83	83	83	83	83	83
PALO PINTO LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	75	75	75	75	75	75
PAT CLEBURNE LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
RED LIVESTOCK LOCAL SUPPLY	KNOX	RED	FRESH	0	0	0	0	0	0
SAN JACINTO LIVESTOCK LOCAL SUPPLY	GRIMES	SAN JACINTO	FRESH	0	0	0	0	0	0
SQUAW CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
STAMFORD LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,852	1,732	1,612	1,492	1,372	1,252
STRAWN LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
SWEETWATER LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,120	1,119	1,118	1,117	1,116	1,115
THROCKMORTON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
TRADINGHOUSE CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	4,967	4,975	4,983	4,992	5,000	5,000
TRAMMEL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	545	545	545	545	545	545
TRINITY LIVESTOCK LOCAL SUPPLY	GRIMES	TRINITY	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	HILL	TRINITY	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	HOOD	TRINITY	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	JOHNSON	TRINITY	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	LIMESTONE	TRINITY	FRESH	0	0	0	0	0	0
TRINITY LIVESTOCK LOCAL SUPPLY	YOUNG	TRINITY	FRESH	0	0	0	0	0	0
TURTLE CREEK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	0	0	0	0
TWIN OAK LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	0	0	100	0	0	0
WACO LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	41,513	43,379	45,247	47,114	48,980	50,847

Source Water Balance (Availability- WUG Supply)

REGION G

SURFACE WATER	COUNTY	BASIN	SALINITY	SOURCE WATER BALANCE (ACRE-FEET PER YEAR)					
				2020	2030	2040	2050	2060	2070
WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	1,800	1,800	1,800	1,800	1,800	1,800
WOODSON LAKE/RESERVOIR	RESERVOIR	BRAZOS	FRESH	99	99	99	99	99	99
SURFACE WATER TOTAL SOURCE WATER BALANCE				**163,236**	**159,457**	**155,338**	**154,483**	**151,164**	**150,326**
REGION G TOTAL SOURCE WATER BALANCE				**401,213**	**402,601**	**407,882**	**419,622**	**421,895**	**421,428**

Water User Group (WUG) Unmet Needs

REGION G	WUG UNMET NEEDS (ACRE-FEET PER YEAR)					
	2020	2030	2040	2050	2060	2070
BELL COUNTY						
BRAZOS BASIN						
MINING	459	1,023	1,614	3,216	4,915	6,360
BOSQUE COUNTY						
BRAZOS BASIN						
MINING	1,784	1,838	1,631	1,612	1,576	1,565
BRAZOS COUNTY						
BRAZOS BASIN						
MINING	1,055	1,529	1,333	1,064	858	757
BURLESON COUNTY						
BRAZOS BASIN						
MINING	225	1,087	666	283	0	0
JONES COUNTY						
BRAZOS BASIN						
MINING	232	222	203	185	170	157
IRRIGATION	174	35	0	0	0	0
LEE COUNTY						
BRAZOS BASIN						
MINING	2,406	5,401	5,634	6,024	6,459	6,986
COLORADO BASIN						
MINING	679	1,524	1,589	1,699	1,822	1,971
LIMESTONE COUNTY						
BRAZOS BASIN						
MINING	3,431	2,876	2,572	2,797	3,295	3,923
TRINITY BASIN						
MINING	368	320	294	314	357	412
NOLAN COUNTY						
BRAZOS BASIN						
IRRIGATION	1,357	1,155	962	860	760	667
COLORADO BASIN						
IRRIGATION	904	771	640	573	507	445
PALO PINTO COUNTY						
BRAZOS BASIN						
POSSUM KINGDOM WSC	7	0	0	0	0	0
ROBERTSON COUNTY						
BRAZOS BASIN						
MINING	0	960	2,599	4,881	7,667	11,129
IRRIGATION	35,322	31,853	28,799	28,207	32,917	39,407
STEPHENS COUNTY						
BRAZOS BASIN						
MINING	3,912	3,884	3,146	2,557	2,029	1,579
WILLIAMSON COUNTY						
BRAZOS BASIN						
MINING	4,593	5,520	6,434	7,541	8,682	9,988

Water User Group (WUG) Unmet Needs

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

Water User Group (WUG) Unmet Needs Summary

REGION G

	2020	2030	2040	2050	2060	2070
MUNICIPAL	7	0	0	0	0	0
COUNTY-OTHER	0	0	0	0	0	0
MANUFACTURING	0	0	0	0	0	0
MINING	19,144	26,184	27,715	32,173	37,830	44,827
STEAM ELECTRIC POWER	0	0	0	0	0	0
LIVESTOCK	0	0	0	0	0	0
IRRIGATION	37,757	33,814	30,401	29,640	34,184	40,519

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

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

WUG Entity Primary Region: G

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
439 WSC	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	4	11	49	59	74	N/A	$0
439 WSC	G	REUSE- BCWCID #1 SOUTH	G | DIRECT REUSE	0	0	0	0	0	20	N/A	$930
ABILENE	G	BRUSH CONTROL-FORT PHANTOM HILL WATERSHED	G | FORT PHANTOM HILL LAKE/RESERVOIR	0	0	0	0	0	0	N/A	N/A
ABILENE	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	23,794	7,614	8,228	9,437	10,549	11,570	$1031	$238
ABILENE	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	710	2,331	2,246	2,045	2,040	2,067	$474	$474
ACTON MUD	G	REALLOCATION OF SWATS CAPACITY TO ACTON MUD	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	0	0	0	200	N/A	$552
ALBANY	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	32	85	133	181	225	267	$474	$474
AQUILLA WSD - UNASSIGNED WATER VOLUMES	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	750	750	750	750	750	750	$926	$473
ARMSTRONG WSC	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	14	39	32	29	30	32	$470	$470
ASPERMONT	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	33	47	62	76	90	105	$0	$0
ASPERMONT	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	13	30	48	66	82	95	$474	$474
BAIRD	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	6	0	0	0	0	0	$496	N/A
BARTLETT	G	ADDITIONAL ADVANCED CONSERVATION	DEMAND REDUCTION	0	0	0	6	35	68	N/A	$470
BARTLETT	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	12	40	61	62	68	73	$470	$470
BARTLETT	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | BELL COUNTY	323	323	323	323	645	645	$2827	$2150
BELL COUNTY WCID #1 - UNASSIGNED WATER VOLUMES	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0	N/A	N/A
BELL COUNTY WCID #1 - UNASSIGNED WATER VOLUMES	G	REUSE- BCWCID #1 SOUTH	G | DIRECT REUSE	0	0	0	0	0	0	N/A	N/A
BELL COUNTY WCID #1 - UNASSIGNED WATER VOLUMES	G	REUSE-BCWCID #1 NORTH	G | DIRECT REUSE	0	0	0	0	0	0	N/A	N/A
BELLMEAD	G	REUSE- WMARSS BELLMEAD/ LACY-LAKEVIEW	G | DIRECT REUSE	1,120	1,120	1,120	1,120	1,120	1,120	$324	$108
BELTON	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	119	340	318	321	347	379	$470	$470
BELTON	G	TRINITY - WILLIAMSON COUNTY ASR	G | TRINITY AQUIFER ASR | WILLIAMSON COUNTY	0	29	87	390	466	586	N/A	$0
BETHESDA WSC	C	ARLINGTON UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	1,416	1,473	1,474	1,472	1,480	1,479	$0	$0
BETHESDA WSC	C	CONSERVATION - BETHESDA WSC	DEMAND REDUCTION	25	45	69	83	99	116	$24977	$38121
BETHESDA WSC	C	CONSERVATION, WATER LOSS CONTROL - BETHESDA WSC	DEMAND REDUCTION	10	10	0	0	0	0	$11640	N/A
BETHESDA WSC	C	FORT WORTH UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	0	194	278	264	233	185	N/A	$0

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
BETHESDA WSC	C	LAKE PALESTINE	I | PALESTINE LAKE/RESERVOIR	0	0	0	0	395	0	N/A	N/A
BETHESDA WSC	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	506	N/A	$1061
BETHESDA WSC	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	1,524	N/A	$1061
BETHESDA WSC	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	265	131	172	N/A	$1061
BETHESDA WSC	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	250	428	516	N/A	$1061
BETHESDA WSC	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	0	35	62	51	62	46	N/A	$239
BETHESDA WSC	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	631	336	305	190	203	140	$1084	$239
BETHESDA WSC	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	0	8	16	15	25	62	N/A	$239
BETHESDA WSC	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	401	78	77	57	80	186	$1084	$239
BETHESDA WSC	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	88	177	166	238	213	N/A	$114
BETHESDA WSC	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	76	199	725	345	302	N/A	$114
BETHESDA WSC	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	84	79	77	101	N/A	$149
BETHESDA WSC	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	411	197	252	303	N/A	$149
BETHESDA WSC	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	126	410	763	1,018	1,138	1,271	$470	$470
BETHESDA WSC	I	UNM-ROR-NECHES RUN OF RIVER	I | NECHES RUN-OF-RIVER	0	0	0	0	561	0	N/A	N/A
BISTONE MWSD - UNASSIGNED WATER VOLUMES	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	2,467	2,561	2,658	2,755	2,740	2,804	$817	$244
BLUEBONNET WSC - UNASSIGNED WATER VOLUMES	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0	N/A	N/A
BRANDON-IRENE WSC	C	CONSERVATION - BRANDON-IRENE WSC	DEMAND REDUCTION	0	0	0	1	1	1	N/A	$0
BRANDON-IRENE WSC	C	CONSERVATION, WATER LOSS CONTROL - BRANDON-IRENE WSC	DEMAND REDUCTION	0	0	0	0	0	0	N/A	N/A
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	CHLORIDE CONTROL PROJECT-BRA	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	2,475	2,475	2,475	2,475	2,475	2,475	$5830	$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE AQUILLA POOL REALLOCATION	G | BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	2,400	2,400	2,400	2,400	2,400	2,400	$865	$102
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION (RECOMMENDED)	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0	N/A	N/A
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION (RECOMMENDED)	G | TRINITY AQUIFER | WILLIAMSON COUNTY	0	0	0	0	0	0	N/A	N/A
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LITTLE RIVER OCR	G | LITTLE RIVER OFF-CHANNEL LAKE/RESERVOIR	0	53,888	33,969	27,809	22,229	9,831	N/A	$81

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	H	NEW / EXPANDED CONTRACT WITH BRA	H | ALLENS CREEK LAKE/RESERVOIR	9,284	930	0	0	0	0	$0	N/A
BRECKENRIDGE	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	550	550	550	550	550	550	$2492	$1228
BRECKENRIDGE	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	30	51	29	17	15	15	$496	$496
BREMOND	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	6	20	22	23	23	25	$470	$470
BRENHAM	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	190	531	889	1,272	1,508	1,553	$496	$496
BRUCEVILLE-EDDY	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	5	14	39	51	71	N/A	$500
BRUCEVILLE-EDDY	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	11	33	38	36	38	40	$470	$470
BRUSHY CREEK MUD	G	ADDITIONAL ADVANCED CONSERVATION	DEMAND REDUCTION	39	81	111	135	152	430	$470	$470
BRUSHY CREEK MUD	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	0	0	0	11	12	12	N/A	$752
BRUSHY CREEK MUD	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	197	589	947	1,282	1,600	1,623	$470	$470
BRYAN	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	0	0	0	5,100	5,100	5,100	N/A	$200
BRYAN	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	493	1,573	1,616	1,697	1,899	2,143	$474	$474
BRYAN	G	REUSE- BRYAN (OPTION 2)	G | DIRECT REUSE	2,419	2,419	2,419	2,419	2,419	2,419	$1577	$740
BRYAN	G	REUSE- MIRAMONT	G | DIRECT REUSE	600	600	600	600	600	600	$408	$53
BRYAN	G	SIMSBORO - BRAZOS COUNTY ASR	G | SIMSBORO AQUIFER ASR | BRAZOS COUNTY	2,841	2,841	3,917	5,581	12,294	19,839	$262	$262
BURLESON	C	CONSERVATION - BURLESON	DEMAND REDUCTION	4	9	15	27	41	55	$0	$0
BURLESON	C	CONSERVATION, WATER LOSS CONTROL - BURLESON	DEMAND REDUCTION	7	7	0	0	0	0	$3150	N/A
BURLESON	C	LAKE PALESTINE	I | PALESTINE LAKE/RESERVOIR	0	0	0	0	2,263	0	N/A	N/A
BURLESON	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	4,715	N/A	$1061
BURLESON	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	824	1,370	1,597	N/A	$1061
BURLESON	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	1,900	1,157	1,038	627	649	431	$1084	$239
BURLESON	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	1,209	267	266	189	256	577	$1084	$239
BURLESON	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	1,902	2,049	2,535	1,836	1,497	N/A	$114
BURLESON	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	1,401	1,402	805	938	N/A	$149
BURLESON	I	UNM-ROR-NECHES RUN OF RIVER	I | NECHES RUN-OF-RIVER	0	0	0	0	798	0	N/A	N/A
CALDWELL	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	40	121	203	240	242	246	$470	$470
CALVERT	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	3	0	0	0	0	0	$470	N/A
CAMERON	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	58	163	269	389	448	464	$496	$496

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
CEDAR PARK	G	BRUSHY CREEK RUA-EXISTING CONTRACTS	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	1,200	1,281	100	0	0	0	$836	N/A
CEDAR PARK	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	629	2,094	3,368	3,714	3,700	3,693	$470	$470
CEDAR PARK	K	DROUGHT MANAGEMENT	DEMAND REDUCTION	486	516	553	553	552	552	$50	$50
CEDAR PARK	K	MUNICIPAL CONSERVATION - CEDAR PARK	DEMAND REDUCTION	246	479	614	724	822	921	$289	$289
CENTRAL TEXAS WSC - UNASSIGNED WATER VOLUMES	G	EAST WILLIAMSON COUNTY WATER SUPPLY PLAN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,112	592	333	2,240	2,240	2,240	$1173	$754
CENTRAL TEXAS WSC - UNASSIGNED WATER VOLUMES	G	TRINITY - WILLIAMSON COUNTY ASR	G | TRINITY AQUIFER ASR | WILLIAMSON COUNTY	1,289	2,258	2,606	169	1,287	1,473	$0	$0
CHILDRESS CREEK WSC	G	BOSQUE COUNTY REGIONAL PROJECT	G | CLIFTON LAKE/RESERVOIR	203	203	203	203	203	203	$2074	$256
CHILDRESS CREEK WSC	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | BOSQUE COUNTY	0	0	0	161	161	161	N/A	$6
CHISHOLM TRAIL SUD	G	ADDITIONAL ADVANCED CONSERVATION	DEMAND REDUCTION	0	0	6	503	1,159	1,967	N/A	$470
CHISHOLM TRAIL SUD	G	CHISHOLM TRAIL SUD WTP EXPANSION	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	3,527	3,334	3,639	4,604	5,931	7,489	$712	$328
CHISHOLM TRAIL SUD	G	GEORGETOWN WTP EXPANSION	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	400	400	0	0	N/A	N/A
CHISHOLM TRAIL SUD	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	209	747	1,055	1,248	1,477	1,720	$470	$470
CISCO	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	23	67	52	44	42	42	$496	$496
CLEBURNE	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	72	144	216	288	1,189	N/A	$473
CLEBURNE	G	LAKE AQUILLA AUGMENTATION - A (SURPLUS)	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	6,285	6,353	6,421	6,349	6,277	5,016	$663	$242
CLEBURNE	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	207	685	736	749	809	883	$470	$470
CLEBURNE - UNASSIGNED WATER VOLUMES	G	REUSE- CLEBURNE	G | DIRECT REUSE	2,031	2,031	2,031	2,031	2,031	2,031	$736	$157
CLIFTON	G	BOSQUE COUNTY REGIONAL PROJECT	G | CLIFTON LAKE/RESERVOIR	397	397	397	397	397	397	$1076	$136
CLIFTON	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	21	74	77	71	71	71	$474	$474
COLLEGE STATION	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	679	2,585	3,465	3,823	4,332	4,926	$474	$474
COLLEGE STATION	G	YEGUA-JACKSON AQUIFER DEVELOPMENT	G | YEGUA-JACKSON AQUIFER | BRAZOS COUNTY	4,452	5,565	5,565	5,565	5,565	5,565	$656	$221
COLLEGE STATION - UNASSIGNED WATER VOLUMES	G	COLLEGE STATION ASR	G | DIRECT REUSE	2,800	2,800	2,800	2,800	2,800	2,800	$3068	$1160
COLLEGE STATION - UNASSIGNED WATER VOLUMES	G	REUSE- COLLEGE STATION	G | DIRECT REUSE	103	103	103	103	103	103	$1680	$291
COOLIDGE	C	CORSICANA - HALBERT/RICHLAND CHAMBERS NEW WTP	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	0	0	0	39	79	100	N/A	$0

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
COOLIDGE	C	CORSICANA UNALLOCATED SUPPLY UTILIZATION	C | NAVARRO MILLS LAKE/RESERVOIR	0	69	83	64	45	46	N/A	$0
COOLIDGE	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	104	109	113	118	123	128	$0	$0
COOLIDGE	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	5	4	1	0	0	0	$496	N/A
CORYELL CITY WATER SUPPLY DISTRICT	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	34	21	9	1	0	0	$470	N/A
COUNTY-OTHER, BELL	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	0	0	161	718	1,417	2,081	N/A	$50
COUNTY-OTHER, BELL	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	14	62	73	94	117	138	$496	$496
COUNTY-OTHER, BELL	G	PURCHASE FROM CENTRAL TEXAS WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	500	500	500	500	N/A	$250
COUNTY-OTHER, BELL	G	TRINITY - WILLIAMSON COUNTY ASR	G | TRINITY AQUIFER ASR | WILLIAMSON COUNTY	0	4	34	516	790	1,069	N/A	$186
COUNTY-OTHER, BELL - UNASSIGNED WATER VOLUMES	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	23	467	731	995	N/A	$186
COUNTY-OTHER, COMANCHE	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | COMANCHE COUNTY	161	161	161	161	242	242	$924	$455
COUNTY-OTHER, CORYELL	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | CORYELL COUNTY	0	0	0	100	200	525	N/A	$1309
COUNTY-OTHER, ERATH	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | ERATH COUNTY	0	0	0	0	121	363	N/A	$681
COUNTY-OTHER, FALLS	G	WTP UPGRADE FOR ARSENIC REMOVAL	G | CARRIZO-WILCOX AQUIFER | FALLS COUNTY	53	53	53	53	53	53	$2117	$1830
COUNTY-OTHER, HASKELL	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	33	47	62	76	90	105	$0	$0
COUNTY-OTHER, HILL	C	CORSICANA - HALBERT/RICHLAND CHAMBERS NEW WTP	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	0	0	0	93	187	230	N/A	$0
COUNTY-OTHER, HILL	C	CORSICANA UNALLOCATED SUPPLY UTILIZATION	C | NAVARRO MILLS LAKE/RESERVOIR	0	178	208	156	105	106	N/A	$0
COUNTY-OTHER, HILL	G	WTP UPGRADE FOR ARSENIC REMOVAL	G | WOODBINE AQUIFER | HILL COUNTY	250	250	250	250	250	250	$1453	$1108
COUNTY-OTHER, HOOD	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | HOOD COUNTY	968	968	968	968	968	968	$703	$560
COUNTY-OTHER, LIMESTONE	G	WTP UPGRADE FOR ARSENIC REMOVAL	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	268	268	268	268	268	268	$1414	$1067
COUNTY-OTHER, MCLENNAN	G	WTP UPGRADE FOR ARSENIC REMOVAL	G | TRINITY AQUIFER | MCLENNAN COUNTY	917	917	917	917	917	917	$1021	$673
COUNTY-OTHER, NOLAN	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	168	168	168	168	168	168	$1031	$1031
COUNTY-OTHER, ROBERTSON	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	0	0	0	0	0	81	N/A	$1079
COUNTY-OTHER, SHACKELFORD	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	250	250	250	250	250	250	$2492	$1228
COUNTY-OTHER, WILLIAMSON	G	ADDITIONAL ADVANCED CONSERVATION	DEMAND REDUCTION	0	0	56	567	1,432	2,594	N/A	$470

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
COUNTY-OTHER, WILLIAMSON	G	EAST WILLIAMSON COUNTY WATER SUPPLY PLAN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,300	2,300	2,300	2,300	2,300	2,300	$1173	$754
COUNTY-OTHER, WILLIAMSON	G	LITTLE RIVER OCR	G | LITTLE RIVER OFF-CHANNEL LAKE/RESERVOIR	0	2,267	5,352	5,346	8,466	11,658	N/A	$350
COUNTY-OTHER, WILLIAMSON	L	VISTA RIDGE PROJECT	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	5,700	5,700	5,700	5,700	5,700	5,700	$680	$611
COUNTY-OTHER, YOUNG	B	MUNICIPAL CONSERVATION - YOUNG COUNTY OTHER	DEMAND REDUCTION	0	0	0	0	3	5	N/A	$844
CRAWFORD	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	7	16	27	28	28	29	$470	$470
CRESSON	C	CONSERVATION - CRESSON	DEMAND REDUCTION	0	1	1	1	2	2	N/A	$0
CRESSON	C	CONSERVATION, WATER LOSS CONTROL - CRESSON	DEMAND REDUCTION	0	0	0	0	0	0	N/A	N/A
CRESSON	C	CRESSON NEW WELLS IN TRINITY AQUIFER	C | TRINITY AQUIFER | PARKER COUNTY	113	113	113	113	113	113	$941	$259
CRESSON	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | HOOD COUNTY	0	0	60	60	60	60	N/A	$573
CROSS COUNTRY WSC	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	20	24	14	10	8	8	$470	$470
CROSS COUNTRY WSC	G	TRINITY - MCLENNAN COUNTY ASR	G | TRINITY AQUIFER ASR | MCLENNAN COUNTY	0	0	0	150	150	150	N/A	$1833
CROSS PLAINS	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	5	10	5	5	5	4	$496	$496
EASTLAND	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	3	0	0	0	0	0	$496	N/A
ELM CREEK WSC	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	63	144	230	N/A	$0
FERN BLUFF MUD	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	63	161	253	261	259	259	$470	$470
FILES VALLEY WSC	C	CONSERVATION - FILES VALLEY WSC	DEMAND REDUCTION	0	1	2	3	5	7	N/A	$0
FILES VALLEY WSC	C	CONSERVATION, WATER LOSS CONTROL - FILES VALLEY WSC	DEMAND REDUCTION	1	1	0	0	0	0	$168	N/A
FILES VALLEY WSC	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	33	N/A	$1061
FILES VALLEY WSC	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	7	11	11	N/A	$1061
FILES VALLEY WSC	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	0	15	11	6	6	3	N/A	$239
FILES VALLEY WSC	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	0	3	2	1	2	4	N/A	$239
FILES VALLEY WSC	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	37	31	31	19	14	N/A	$114
FILES VALLEY WSC	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	15	18	6	7	N/A	$149
FILES VALLEY WSC	I	UNM-ROR-NECHES RUN OF RIVER	I | NECHES RUN-OF-RIVER	0	0	0	0	24	0	N/A	N/A
FLORENCE	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	0	0	0	0	13	24	N/A	$1093
FLORENCE	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | BELL COUNTY	121	121	121	121	121	121	$5795	$2158
FORT BELKNAPP WSC	G	GRAHAM REDUCTION TO FORT BELKNAP WSC	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	85	85	85	85	85	85	$880	$880

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
FORT HOOD	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	293	842	1,376	1,946	2,134	2,133	$470	$470
GATESVILLE	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	29	86	386	461	580	N/A	$0
GATESVILLE	G	CORYELL COUNTY OCR	G | CORYELL COUNTY OFF-CHANNEL LAKE/RESERVOIR	0	2,835	2,835	2,835	2,835	2,835	N/A	$435
GATESVILLE	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	208	610	1,097	1,644	2,261	2,462	$470	$470
GEORGETOWN	G	ADDITIONAL ADVANCED CONSERVATION	DEMAND REDUCTION	0	0	0	0	1,612	4,404	N/A	$470
GEORGETOWN	G	BELTON TO STILLHOUSE PIPELINE-BRA	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	0	0	0	N/A	N/A
GEORGETOWN	G	GEORGETOWN WTP EXPANSION	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	11,626	11,626	11,626	11,626	11,304	N/A	$266
GEORGETOWN	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	734	2,507	5,068	8,141	9,756	11,442	$470	$470
GIDDINGS	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	39	131	231	230	232	233	$496	$496
GLEN ROSE	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	24	73	128	167	172	178	$474	$474
GODLEY	G	WOODBINE AQUIFER DEVELOPMENT	G | WOODBINE AQUIFER | JOHNSON COUNTY	0	0	0	0	30	30	N/A	$1474
GRAHAM	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	140	354	568	795	1,029	1,260	$474	$474
GRANGER	G	EAST WILLIAMSON COUNTY WATER SUPPLY PLAN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	200	200	200	200	200	200	$1173	$754
GROESBECK	G	GROESBECK OCR	G | GROESBECK OFF-CHANNEL LAKE/RESERVOIR	1,755	1,755	1,755	1,755	1,755	1,755	$617	$121
GROESBECK	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	2	0	0	0	0	0	$496	N/A
HAMILTON	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	18	32	20	14	13	13	$474	$474
HAMLIN	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	14	43	57	57	58	58	$470	$470
HARKER HEIGHTS	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,645	1,697	1,697	1,235	688	865	$0	$0
HARKER HEIGHTS	G	KILLEEN REDUCTION TO HARKER HEIGHTS	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	0	0	302	N/A	$1791
HARKER HEIGHTS	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	262	836	1,367	1,499	1,656	1,819	$470	$470
HARKER HEIGHTS	G	REUSE- BCWCID #1 SOUTH	G | DIRECT REUSE	185	185	185	185	185	185	$930	$201
HASKELL	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	176	254	332	410	488	566	$0	$0
HEARNE	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	22	35	16	14	12	12	$470	$470
HEWITT	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	22	35	16	14	12	12	$470	$470
HEWITT	G	REUSE- WMARSS BULLHIDE CREEK	G | DIRECT REUSE	1,223	1,223	1,223	1,223	1,223	1,223	$381	$149

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
HILLSBORO	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	79	230	385	495	506	517	$474	$474
HUBBARD	C	CORSICANA - HALBERT/RICHLAND CHAMBERS NEW WTP	C | RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION	0	0	0	27	55	67	N/A	$0
HUBBARD	C	CORSICANA UNALLOCATED SUPPLY UTILIZATION	C | NAVARRO MILLS LAKE/RESERVOIR	0	54	61	46	31	31	N/A	$0
HUTTO	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | LEE COUNTY	5,593	5,593	5,593	7,503	9,710	11,994	$1619	$732
IRRIGATION, BELL	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	1,091	1,019	953	940	915	754	$1120	$93
IRRIGATION, BELL	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	66	109	150	148	146	144	$230	$230
IRRIGATION, BELL	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | BELL COUNTY	0	0	0	0	0	140	N/A	$1656
IRRIGATION, BOSQUE	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	64	105	144	142	140	138	$230	$230
IRRIGATION, BOSQUE	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | BOSQUE COUNTY	475	475	475	475	475	475	$2119	$17
IRRIGATION, BRAZOS	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	10,200	8,500	6,900	5,800	4,800	3,900	$66	$66
IRRIGATION, BRAZOS	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	782	1,240	1,652	1,572	1,496	1,431	$230	$230
IRRIGATION, COMANCHE	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	824	1,359	1,883	1,863	1,844	1,825	$230	$230
IRRIGATION, COMANCHE	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | COMANCHE COUNTY	69	603	0	0	0	0	$1666	N/A
IRRIGATION, EASTLAND	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	205	341	479	479	479	480	$230	$230
IRRIGATION, EASTLAND	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | ERATH COUNTY	2,033	1,908	1,778	1,781	1,785	1,791	$1089	$90
IRRIGATION, HAMILTON	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	15	25	35	33	31	31	$230	$230
IRRIGATION, HAMILTON	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | HAMILTON COUNTY	60	60	60	60	0	0	$1779	N/A
IRRIGATION, HASKELL	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	1,435	2,321	3,153	3,015	0	0	$230	N/A
IRRIGATION, HASKELL	G	REALLOCATION OF HASKELL CO. SE TO MINING AND IRRIGATION	G | STAMFORD LAKE/RESERVOIR	790	67	44	0	0	0	$250	N/A
IRRIGATION, JONES	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	86	139	189	183	0	0	$230	N/A
IRRIGATION, KNOX	G	BLAINE AQUIFER DEVELOPMENT	G | BLAINE AQUIFER | KNOX COUNTY	460	460	460	460	460	460	$482	$39
IRRIGATION, KNOX	G	BLAINE AQUIFER DEVELOPMENT	G | BLAINE AQUIFER | STONEWALL COUNTY	0	1,709	4,120	5,042	1,855	1,065	N/A	$250
IRRIGATION, KNOX	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	1,231	2,001	2,733	2,666	2,600	2,539	$230	$230
IRRIGATION, KNOX	G	SEYMOUR AQUIFER DEVELOPMENT	G | SEYMOUR AQUIFER | KNOX COUNTY	1,571	1,345	1,193	1,116	1,041	1,041	$571	$46
IRRIGATION, LAMPASAS	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	12	19	26	26	26	26	$230	$230
IRRIGATION, LAMPASAS	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | LAMPASAS COUNTY	210	210	210	210	210	210	$1327	$108
IRRIGATION, MCLENNAN	G	BRAZOS RIVER ALLUVIUM DEVELOPMENT	G | BRAZOS RIVER ALLUVIUM AQUIFER | MCLENNAN COUNTY	2,200	2,200	2,200	2,200	2,200	2,200	$696	$56
IRRIGATION, MCLENNAN	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	146	244	341	341	340	340	$230	$230
IRRIGATION, NOLAN	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	222	361	492	479	466	455	$230	$230

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
IRRIGATION, PALO PINTO	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	94	155	214	212	209	206	$230	$230
IRRIGATION, PALO PINTO	G	TURKEY PEAK RESERVOIR	G | TURKEY PEAK LAKE/RESERVOIR	2,494	2,392	2,299	2,260	2,222	2,188	$479	$479
IRRIGATION, ROBERTSON	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	15,764	16,143	16,222	15,172	8,912	1,179	$726	$61
IRRIGATION, ROBERTSON	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	1,903	3,080	4,189	4,069	3,952	3,859	$230	$230
IRRIGATION, STEPHENS	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	4	6	8	8	8	8	$230	$230
IRRIGATION, STEPHENS	G	OTHER AQUIFER DEVELOPMENT	G | OTHER AQUIFER | STEPHENS COUNTY	26	26	26	26	26	26	$2254	$177
IRRIGATION, TAYLOR	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	1,010	943	877	842	807	776	$100	$100
IRRIGATION, TAYLOR	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	47	76	104	101	98	96	$230	$230
IRRIGATION, WILLIAMSON	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | WILLIAMSON COUNTY	66	63	60	61	61	62	$1679	$133
IRRIGATION, WILLIAMSON	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	5	8	11	11	11	11	$230	$230
IRRIGATION, YOUNG	G	IRRIGATION WATER CONSERVATION	DEMAND REDUCTION	2	3	3	3	3	3	$230	$230
IRRIGATION, YOUNG	G	OTHER AQUIFER DEVELOPMENT	G | OTHER AQUIFER | YOUNG COUNTY	50	50	50	50	50	50	$2148	$168
JARRELL	G	EAST WILLIAMSON COUNTY WATER SUPPLY PLAN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	100	100	100	100	100	100	$1173	$754
JAYTON	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	3	6	4	4	3	3	$474	$474
JAYTON	G	NEW WTP(0.4 MGD) FOR JAYTON	G | SEYMOUR AQUIFER | KENT COUNTY	249	249	249	249	249	249	$2451	$1129
JOHNSON COUNTY SUD	C	ARLINGTON UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	77	63	72	64	77	69	$0	$0
JOHNSON COUNTY SUD	C	CONSERVATION - JOHNSON COUNTY SUD	DEMAND REDUCTION	1	2	4	5	7	10	$0	$0
JOHNSON COUNTY SUD	C	CONSERVATION, WATER LOSS CONTROL - JOHNSON COUNTY SUD	DEMAND REDUCTION	1	1	0	0	0	0	$374	N/A
JOHNSON COUNTY SUD	C	DWU - MAIN STEM REUSE	C | TRINITY INDIRECT REUSE	49	50	92	256	260	251	$153	$653
JOHNSON COUNTY SUD	C	DWU - MAIN STEM REUSE	C | TRINITY INDIRECT REUSE	0	0	0	0	1,271	0	N/A	N/A
JOHNSON COUNTY SUD	C	FORT WORTH UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	0	18	18	14	11	7	N/A	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | JOE POOL LAKE/RESERVOIR	221	192	179	179	180	180	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | RAY HUBBARD LAKE/RESERVOIR	181	177	159	141	123	113	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	436	389	339	292	248	218	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | TRINITY AQUIFER | DALLAS COUNTY	2,100	2,100	2,100	2,100	2,100	2,100	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | TRINITY AQUIFER | TARRANT COUNTY	2,100	2,100	2,100	2,100	2,100	2,100	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | TRINITY INDIRECT REUSE	119	139	136	164	196	220	$0	$0

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WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	400	321	280	260	236	214	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	D | FORK LAKE/RESERVOIR	184	200	198	194	187	188	$0	$0
JOHNSON COUNTY SUD	C	GRAND PRAIRIE UNALLOCATED SUPPLY UTILIZATION	D | TAWAKONI LAKE/RESERVOIR	639	614	544	476	413	375	$0	$0
JOHNSON COUNTY SUD	C	LAKE PALESTINE	I | PALESTINE LAKE/RESERVOIR	0	153	292	233	206	182	N/A	$515
JOHNSON COUNTY SUD	C	MANSFIELD UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	231	157	102	90	78	68	$0	$0
JOHNSON COUNTY SUD	C	MANSFIELD UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	135	141	134	145	138	130	$0	$0
JOHNSON COUNTY SUD	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	121	N/A	$1061
JOHNSON COUNTY SUD	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	1,969	N/A	$1061
JOHNSON COUNTY SUD	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	19	35	41	N/A	$1061
JOHNSON COUNTY SUD	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	326	569	667	N/A	$1131
JOHNSON COUNTY SUD	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	0	14	21	15	15	11	N/A	$239
JOHNSON COUNTY SUD	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	0	9	17	14	16	12	N/A	$239
JOHNSON COUNTY SUD	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	0	3	5	5	6	15	N/A	$239
JOHNSON COUNTY SUD	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	0	2	4	4	7	16	N/A	$239
JOHNSON COUNTY SUD	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	37	61	68	58	51	N/A	$114
JOHNSON COUNTY SUD	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	508	971	1,393	1,032	829	N/A	$114
JOHNSON COUNTY SUD	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	28	35	21	25	N/A	$149
JOHNSON COUNTY SUD	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	459	770	334	392	N/A	$149
JOHNSON COUNTY SUD	I	ANRA-COL - LAKE COLUMBIA	I | COLUMBIA LAKE/RESERVOIR	0	0	0	0	0	96	N/A	$1010
JOHNSON COUNTY SUD	I	UNM-ROR-NECHES RUN OF RIVER	I | NECHES RUN-OF-RIVER	0	0	0	0	91	81	N/A	$1010
JONAH WATER SUD	G	EAST WILLIAMSON COUNTY WATER SUPPLY PLAN	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	2,752	2,223	1,582	N/A	$754
JONAH WATER SUD	G	TRINITY - WILLIAMSON COUNTY ASR	G | TRINITY AQUIFER ASR | WILLIAMSON COUNTY	3,000	3,000	3,000	248	777	1,418	$1173	$754
KEMPNER	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	7	10	6	6	5	5	$470	$470
KEMPNER WSC	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	4,056	4,058	4,024	4,174	4,138	4,142	$0	$0
KEMPNER WSC	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	100	239	225	222	234	248	$470	$470
KILLEEN	G	REUSE- BCWCID #1 SOUTH	G | DIRECT REUSE	563	563	563	563	563	543	$811	$811
KILLEEN	G	REUSE-BCWCID #1 NORTH	G | DIRECT REUSE	1,925	1,925	1,925	1,925	1,925	1,925	$811	$811

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
KNOX CITY	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	72	104	136	167	199	231	$0	$0
KNOX CITY	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	9	25	45	54	54	55	$496	$496
LACY-LAKEVIEW	G	REUSE- WMARSS BELLMEAD/ LACY-LAKEVIEW	G | DIRECT REUSE	1,120	1,120	1,120	1,120	1,120	1,120	$324	$108
LAMPASAS	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	22	148	227	318	414	505	$500	$500
LAMPASAS	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	27	0	0	0	0	0	$470	N/A
LEANDER	G	BRUSHY CREEK RUA-EXISTING CONTRACTS	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	15,800	15,719	16,900	17,000	17,000	17,000	$1128	$645
LEANDER	K	DROUGHT MANAGEMENT	DEMAND REDUCTION	170	436	753	813	843	882	$50	$50
LEANDER	K	LCRA - LANE CITY RESERVOIR	K | LCRA NEW OFF-CHANNEL RESERVOIRS (2020 DECADE)	0	0	0	3,336	9,347	15,976	N/A	$151
LEE COUNTY WSC	K	DROUGHT MANAGEMENT	DEMAND REDUCTION	30	33	35	37	38	40	$50	$50
LEXINGTON	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	8	26	23	21	21	21	$496	$496
LIBERTY HILL	G	BRUSHY CREEK RUA-EXISTING CONTRACTS	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	600	600	600	600	600	600	$1128	$645
LITTLE RIVER-ACADEMY	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	180	180	180	180	180	N/A	$977
LITTLE RIVER-ACADEMY	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	12	19	13	11	11	11	$470	$470
LOMETA	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	7	21	26	27	28	29	$470	$470
LORENA	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	10	3	0	0	0	0	$470	N/A
LORENA	G	REUSE- WMARSS BULLHIDE CREEK	G | DIRECT REUSE	448	448	448	448	448	448	$381	$149
MANUFACTURING, BELL	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	1,000	1,000	1,000	1,360	1,360	1,360	$883	$297
MANUFACTURING, BELL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	41	75	112	120	129	140	$0	$0
MANUFACTURING, BOSQUE	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,035	1,280	1,510	1,765	2,060	2,375	$66	$66
MANUFACTURING, BOSQUE	G	CLIFTON REDUCTION TO BOSQUE MANUFACTURING	G | TRINITY AQUIFER | BOSQUE COUNTY	426	426	426	426	426	426	$1076	$1076
MANUFACTURING, BOSQUE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	82	153	236	255	277	301	$0	$0
MANUFACTURING, BOSQUE	G	MERIDIAN REDUCTION TO BOSQUE MANUFACTURING	G | TRINITY AQUIFER | BOSQUE COUNTY	330	330	330	330	330	330	$1223	$1223
MANUFACTURING, BRAZOS	G	GULF COAST AQUIFER DEVELOPMENT	G | GULF COAST AQUIFER | BRAZOS COUNTY	530	530	530	530	530	530	$1815	$469
MANUFACTURING, BRAZOS	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	74	139	218	238	259	281	$0	$0
MANUFACTURING, BRAZOS	G	TEXAS A&M REDUCTION TO BRAZOS MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | BRAZOS COUNTY	1,200	300	500	800	1,100	1,400	$977	$977
MANUFACTURING, BURLESON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	4	8	13	14	15	17	$0	$0
MANUFACTURING, BURLESON	G	SPARTA AQUIFER DEVELOPMENT	G | SPARTA AQUIFER | BURLESON COUNTY	0	50	50	50	85	85	N/A	$418

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WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
MANUFACTURING, FALLS	G	MARLIN REDUCTION TO FALLS MANUFACTURING	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1	1	1	1	1	1	$1522	$1522
MANUFACTURING, FISHER	G	DOCKUM AQUIFER DEVELOPMENT	G | DOCKUM AQUIFER | FISHER COUNTY	50	50	140	140	140	140	$14040	$7614
MANUFACTURING, FISHER	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	7	13	20	22	24	25	$0	$0
MANUFACTURING, GRIMES	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	0	0	0	38	41	N/A	$0
MANUFACTURING, MCLENNAN	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	153	286	446	487	527	571	$0	$0
MANUFACTURING, MCLENNAN	G	REUSE- WMARSS FLAT CREEK	G | DIRECT REUSE	1,600	1,700	1,800	2,000	2,200	2,500	$205	$105
MANUFACTURING, NOLAN	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	0	0	0	0	0	33	N/A	$1031
MANUFACTURING, NOLAN	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	43	81	126	138	149	162	$0	$0
MANUFACTURING, NOLAN	G	OAK CREEK RESERVOIR-CONJUNCTIVE USE	F | OAK CREEK LAKE/RESERVOIR	838	991	1,134	1,288	1,442	1,575	$1031	$1031
MANUFACTURING, TAYLOR	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	50	90	136	144	157	170	$0	$0
MANUFACTURING, WASHINGTON	G	GULF COAST AQUIFER DEVELOPMENT	G | GULF COAST AQUIFER | WASHINGTON COUNTY	41	89	134	187	254	326	$1209	$405
MANUFACTURING, WASHINGTON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	21	38	58	62	67	72	$0	$0
MANUFACTURING, WILLIAMSON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	71	135	212	234	254	276	$0	$0
MARLIN	G	BRUSHY CREEK RESERVOIR	G | BRUSHY CREEK LAKE/RESERVOIR	1,450	1,450	1,450	1,450	1,450	1,450	$481	$97
MARLIN	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	86	226	357	480	619	756	$474	$474
MART	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	0	1	0	0	0	1	N/A	$470
MART	G	TRINITY - MCLENNAN COUNTY ASR	G | TRINITY AQUIFER ASR | MCLENNAN COUNTY	250	250	250	250	250	250	$3028	$1264
MERIDIAN	G	BOSQUE COUNTY REGIONAL PROJECT	G | CLIFTON LAKE/RESERVOIR	224	224	224	224	224	224	$1223	$179
MERKEL	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	0	0	0	0	4	9	N/A	$100
MINERAL WELLS	C	CONSERVATION - MINERAL WELLS	DEMAND REDUCTION	4	7	3	4	5	6	$6046	$0
MINERAL WELLS	C	CONSERVATION, WATER LOSS CONTROL - MINERAL WELLS	DEMAND REDUCTION	2	2	0	0	0	0	$535	N/A
MINERAL WELLS	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	70	31	0	0	0	0	$496	N/A
MINING, BELL	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-BFZ AQUIFER | BELL COUNTY	2,104	2,176	2,081	1,177	503	0	$589	N/A
MINING, BELL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	97	199	322	374	427	488	$0	$0
MINING, BELL	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | BELL COUNTY	582	582	582	582	260	120	$884	$79
MINING, BOSQUE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	59	104	132	131	128	127	$0	$0
MINING, BRAZOS	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	33	81	100	80	65	57	$0	$0
MINING, BURLESON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	30	96	106	77	48	30	$0	$0
MINING, BURLESON	G	SPARTA AQUIFER DEVELOPMENT	G | SPARTA AQUIFER | BURLESON COUNTY	740	740	740	740	740	740	$678	$58
MINING, CALLAHAN	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	7	11	15	14	13	13	$0	$0

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
MINING, CALLAHAN	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | CALLAHAN COUNTY	225	225	225	225	225	225	$692	$61
MINING, COMANCHE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	14	26	26	19	13	9	$0	$0
MINING, COMANCHE	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | COMANCHE COUNTY	404	473	311	320	149	93	$871	$78
MINING, CORYELL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	45	54	34	25	28	31	$0	$0
MINING, CORYELL	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | CORYELL COUNTY	1,500	1,500	500	500	500	500	$1236	$107
MINING, EASTLAND	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	35	59	65	50	36	30	$0	$0
MINING, EASTLAND	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | ERATH COUNTY	1,150	1,150	900	700	500	500	$560	$52
MINING, ERATH	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	27	0	0	0	0	N/A	N/A
MINING, FALLS	G	FALLS COUNTY IRRIGATION REALLOCATION TO FALLS COUNTY MINING	G | BRAZOS RIVER ALLUVIUM AQUIFER | FALLS COUNTY	218	234	241	266	286	308	$0	$0
MINING, FALLS	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	7	12	18	20	21	23	$0	$0
MINING, FISHER	G	DOCKUM AQUIFER DEVELOPMENT	G | DOCKUM AQUIFER | FISHER COUNTY	400	400	400	400	400	400	$696	$59
MINING, FISHER	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	12	20	25	22	19	17	$0	$0
MINING, GRIMES	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | GRIMES COUNTY	300	550	550	300	300	100	$1764	$131
MINING, GRIMES	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	10	30	33	24	15	9	$0	$0
MINING, HAMILTON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	12	12	7	0	0	0	$0	N/A
MINING, HAMILTON	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | HAMILTON COUNTY	370	370	370	0	0	0	$680	N/A
MINING, HASKELL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	3	5	6	5	5	4	$0	$0
MINING, HASKELL	G	REALLOCATION OF HASKELL CO. SE TO MINING AND IRRIGATION	G | STAMFORD LAKE/RESERVOIR	90	87	77	69	61	55	$250	$250
MINING, HILL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	49	60	0	0	0	0	$0	N/A
MINING, HILL	G	WOODBINE AQUIFER DEVELOPMENT	G | WOODBINE AQUIFER | HILL COUNTY	560	560	0	0	0	0	$767	N/A
MINING, HOOD	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	62	122	156	149	143	144	$0	$0
MINING, HOOD	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | HOOD COUNTY	1,120	1,120	1,120	1,120	1,120	1,120	$508	$44
MINING, JOHNSON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	124	0	0	0	0	0	$0	N/A
MINING, JOHNSON	G	WOODBINE AQUIFER DEVELOPMENT	G | WOODBINE AQUIFER | JOHNSON COUNTY	1,140	0	0	0	0	0	$383	N/A
MINING, JONES	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	7	12	15	14	13	12	$0	$0
MINING, KNOX	G	BLAINE AQUIFER DEVELOPMENT	G | BLAINE AQUIFER | KNOX COUNTY	15	15	15	15	15	15	$1388	$121
MINING, KNOX	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	1	1	1	1	1	N/A	$0
MINING, LAMPASAS	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	6	11	17	18	20	22	$0	$0
MINING, LAMPASAS	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | LAMPASAS COUNTY	185	185	225	225	275	275	$743	$66
MINING, LEE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	95	364	544	581	623	674	$0	$0
MINING, LIMESTONE	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	5,398	5,423	5,498	5,694	5,587	5,480	$603	$54

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Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
MINING, LIMESTONE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	310	496	691	724	756	800	$0	$0
MINING, MCLENNAN	G	BRAZOS RIVER ALLUVIUM DEVELOPMENT	G | BRAZOS RIVER ALLUVIUM AQUIFER | MCLENNAN COUNTY	1,800	1,800	1,800	2,500	2,500	2,900	$364	$244
MINING, MCLENNAN	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	76	150	214	246	268	295	$0	$0
MINING, MCLENNAN	G	REUSE- WMARSS FLAT CREEK	G | DIRECT REUSE	811	811	811	811	811	811	$205	$105
MINING, NOLAN	G	EDWARDS AQUIFER DEVELOPMENT	G | EDWARDS-TRINITY-PLATEAU AQUIFER | NOLAN COUNTY	220	220	220	220	220	220	$1018	$86
MINING, NOLAN	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	7	11	14	12	11	10	$0	$0
MINING, ROBERTSON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	588	964	1,136	1,345	1,606	N/A	$0
MINING, SHACKELFORD	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	17	37	39	31	23	17	$0	$0
MINING, SHACKELFORD	G	OTHER AQUIFER DEVELOPMENT	G | OTHER AQUIFER | SHACKELFORD COUNTY	710	710	710	710	710	710	$1044	$85
MINING, SOMERVELL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	33	64	80	74	70	68	$0	$0
MINING, SOMERVELL	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | SOMERVELL COUNTY	550	550	550	550	550	550	$583	$50
MINING, STEPHENS	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	152	257	312	268	228	194	$0	$0
MINING, STONEWALL	G	BLAINE AQUIFER DEVELOPMENT	G | BLAINE AQUIFER | STONEWALL COUNTY	400	400	400	400	400	400	$790	$68
MINING, STONEWALL	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	18	29	36	31	27	24	$0	$0
MINING, TAYLOR	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	379	371	340	322	306	293	$100	$100
MINING, TAYLOR	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	12	20	26	24	23	22	$0	$0
MINING, THROCKMORTON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	6	10	12	11	9	8	$0	$0
MINING, THROCKMORTON	G	OTHER AQUIFER DEVELOPMENT	G | OTHER AQUIFER | THROCKMORTON COUNTY	200	200	200	200	200	200	$1072	$87
MINING, WASHINGTON	G	GULF COAST AQUIFER DEVELOPMENT	G | GULF COAST AQUIFER | WASHINGTON COUNTY	552	823	654	500	347	246	$695	$58
MINING, WASHINGTON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	17	43	49	38	26	18	$0	$0
MINING, WILLIAMSON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	155	312	515	599	685	783	$0	$0
MINING, YOUNG	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	6	14	14	11	7	5	$0	$0
MINING, YOUNG	G	OTHER AQUIFER DEVELOPMENT	G | OTHER AQUIFER | YOUNG COUNTY	270	270	260	260	260	260	$1084	$85
MULTI-COUNTY WSC	G	CORYELL COUNTY OCR	G | CORYELL COUNTY OFF-CHANNEL LAKE/RESERVOIR	0	300	300	300	300	300	N/A	$435
MULTI-COUNTY WSC	G	HAMILTON REDUCTION TO MULTI WSC	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	100	100	0	0	0	0	$250	N/A
MUNDAY	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	74	107	140	173	205	238	$0	$0
MUNDAY	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	8	26	36	37	36	37	$496	$496
NAVASOTA	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	55	158	238	229	231	235	$470	$470

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
NOLANVILLE	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	5	14	65	77	97	N/A	$0
NOLANVILLE	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	67	224	444	721	884	1,003	$470	$470
NOLANVILLE	G	VOLUNTARY REDISTRIBUTION OF BELL COUNTY WCID#1 SUPPLY	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	5	215	401	544	798	1,088	$186	$186
NORTH BOSQUE WSC	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	33	99	183	280	390	452	$470	$470
NORTH BOSQUE WSC	G	TRINITY - MCLENNAN COUNTY ASR	G | TRINITY AQUIFER ASR | MCLENNAN COUNTY	0	200	200	200	200	200	N/A	$1405
NORTH CENTRAL TEXAS MUNICIPAL WATER AUTHORITY - UNASSIGNED WATER VOLUMES	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	2,025	1,848	1,670	1,494	1,319	1,140	$2958	$384
PALO PINTO COUNTY MWD #1 - UNASSIGNED WATER VOLUMES	G	TURKEY PEAK RESERVOIR	G | TURKEY PEAK LAKE/RESERVOIR	5,606	5,708	5,801	5,840	5,878	5,912	$749	$73
PARKER WSC	G	WOODBINE AQUIFER DEVELOPMENT	G | WOODBINE AQUIFER | JOHNSON COUNTY	0	0	0	0	180	180	N/A	$737
POSSUM KINGDOM WSC	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	53	126	198	271	342	410	$496	$496
POTOSI WSC	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	466	485	500	515	529	542	$100	$100
RANGER	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	15	46	39	37	36	36	$496	$496
RIESEL	G	RMS WSC REDUCTION FOR RIESEL	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	20	20	20	20	20	20	$977	$977
RIO VISTA	G	WOODBINE AQUIFER DEVELOPMENT	G | WOODBINE AQUIFER | JOHNSON COUNTY	0	0	0	0	1,179	1,179	N/A	$75
ROBINSON	G	INCREASE WTP CAPACITY-ROBINSON	G | BRAZOS RUN-OF-RIVER	0	2,240	2,240	2,240	2,240	2,240	N/A	$420
ROBINSON	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	91	316	507	549	605	663	$470	$470
ROBY	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	5	13	14	13	12	12	$496	$496
ROCKDALE	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	43	128	198	195	200	207	$496	$496
ROTAN	F	SUBORDINATION - CRMWD SYSTEM	F | COLORADO RIVER MWD LAKE/RESERVOIR SYSTEM	89	50	60	67	76	84	$0	$0
ROUND ROCK	G	ADDITIONAL ADVANCED CONSERVATION	DEMAND REDUCTION	0	0	1,060	2,825	5,310	8,446	N/A	$474
ROUND ROCK	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	122	361	1,626	1,943	2,443	N/A	$0
ROUND ROCK	G	BRUSHY CREEK RUA-EXISTING CONTRACTS	K | HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	24,400	24,400	24,400	24,400	24,400	24,400	$976	$976
ROUND ROCK	G	LITTLE RIVER OCR	G | LITTLE RIVER OFF-CHANNEL LAKE/RESERVOIR	0	0	0	0	3,300	10,800	N/A	$1038
ROUND ROCK	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	520	119	0	0	0	0	$470	N/A
ROUND ROCK	K	DROUGHT MANAGEMENT	DEMAND REDUCTION	19	21	24	26	29	31	$50	$50

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

Water Management Strategy Supplies

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ROUND ROCK	K	MUNICIPAL CONSERVATION - ROUND ROCK	DEMAND REDUCTION	13	11	10	8	9	10	$395	$395
RULE	G	MILLERS CREEK AUGMENTATION	G | MILLERS CREEK LAKE/RESERVOIR	12	18	23	29	34	40	$0	$0
SALADO WSC	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	97	255	431	624	830	1,044	$470	$470
SNOOK	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	11	26	42	59	76	91	$496	$496
SOMERVILLE	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	8	26	23	23	23	24	$470	$470
SOUTHWEST MILAM WSC	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	33	1	0	0	0	0	$496	N/A
STAMFORD	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	40	105	172	246	316	344	$470	$470
STEAM ELECTRIC POWER, BELL	G	REUSE- TEMPLE	G | DIRECT REUSE	8,407	8,407	8,407	8,407	8,407	9,707	$138	$138
STEAM ELECTRIC POWER, BOSQUE	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	500	1,670	3,240	5,130	7,350	N/A	$66
STEAM ELECTRIC POWER, BOSQUE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	362	596	705	837	995	N/A	$0
STEAM ELECTRIC POWER, BRAZOS	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	15	20	32	22	28	27	$0	$0
STEAM ELECTRIC POWER, BRAZOS	G	REUSE- BRYAN (OPTION 1)	G | DIRECT REUSE	256	131	165	27	114	94	$1547	$304
STEAM ELECTRIC POWER, GRIMES	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | GRIMES COUNTY	343	343	343	343	343	343	$2971	$1023
STEAM ELECTRIC POWER, GRIMES	G	GIBBONS CREEK RESERVOIR EXPANSION	G | GIBBONS CREEK LAKE/RESERVOIR	2,605	2,605	2,605	2,605	2,605	2,605	$359	$48
STEAM ELECTRIC POWER, GRIMES	G	GULF COAST AQUIFER DEVELOPMENT	G | GULF COAST AQUIFER | GRIMES COUNTY	6,236	6,236	6,236	6,236	6,236	6,236	$423	$144
STEAM ELECTRIC POWER, GRIMES	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	953	1,658	2,426	2,566	2,776	3,003	$0	$0
STEAM ELECTRIC POWER, GRIMES	G	REUSE- BRYAN	G | DIRECT REUSE	766	1,156	1,564	2,538	3,976	5,528	$304	$304
STEAM ELECTRIC POWER, GRIMES	G	REUSE- COLLEGE STATION	G | DIRECT REUSE	766	1,156	1,564	2,538	3,976	5,528	$304	$304
STEAM ELECTRIC POWER, JOHNSON	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	3,415	3,275	3,135	3,135	3,135	3,135	$926	$473
STEAM ELECTRIC POWER, JOHNSON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	210	350	490	490	490	490	$0	$0
STEAM ELECTRIC POWER, JOHNSON	G	LAKE AQUILLA AUGMENTATION - A (SURPLUS)	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	3,415	3,275	3,135	3,135	3,135	3,135	$926	$473
STEAM ELECTRIC POWER, LIMESTONE	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	1,321	2,176	2,573	3,058	3,642	N/A	$0
STEAM ELECTRIC POWER, LIMESTONE	G	MCLENNAN CO. SE REDUCTION TO LIMESTONE CO. SE	G | DIRECT REUSE	0	2,730	6,842	10,000	10,000	10,000	N/A	$250
STEAM ELECTRIC POWER, LIMESTONE	G	MCLENNAN CO. SE REDUCTION TO LIMESTONE CO. SE	G | LAKE CREEK LAKE/RESERVOIR	0	0	0	2,430	7,963	7,129	N/A	$250
STEAM ELECTRIC POWER, LIMESTONE	G	REDUCE DEMAND THROUGH ALTERNATIVE COOLING	DEMAND REDUCTION	0	0	0	0	1,213	10,121	N/A	$0
STEAM ELECTRIC POWER, MILAM	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	1,601	2,869	2,869	2,869	2,869	N/A	$0
STEAM ELECTRIC POWER, MILAM	G	LITTLE RIVER OCR	G | LITTLE RIVER OFF-CHANNEL LAKE/RESERVOIR	0	0	0	4,353	4,000	4,000	N/A	$710
STEAM ELECTRIC POWER, NOLAN	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	0	9,999	9,298	7,901	6,602	5,383	N/A	$100

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WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
STEAM ELECTRIC POWER, NOLAN	G	JONES COUNTY REALLOCATION TO NOLAN COUNTY SE	G | HUBBARD CREEK LAKE/RESERVOIR	7,914	11,543	11,441	11,473	11,353	11,319	$250	$250
STEAM ELECTRIC POWER, NOLAN	G	REDUCE DEMAND THROUGH ALTERNATIVE COOLING	DEMAND REDUCTION	5,612	5,612	5,612	5,612	5,961	7,214	$0	$0
STEAM ELECTRIC POWER, ROBERTSON	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	0	2,000	4,000	6,000	N/A	$66
STEAM ELECTRIC POWER, ROBERTSON	G	INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION	0	0	2,486	3,289	3,439	3,597	N/A	$0
STEAM ELECTRIC POWER, ROBERTSON	G	PURCHASE FROM WALNUT CREEK MINE-REUSE	G | DIRECT REUSE	0	0	0	9,000	9,000	9,000	N/A	$500
STEAM ELECTRIC POWER, SOMERVELL	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	76,120	76,120	76,120	76,120	76,120	76,120	$285	$160
STEAM ELECTRIC POWER, SOMERVELL	G	HOOD COUNTY SE REALLOCATION TO SOMERVELL COUNTY SE	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	27,133	27,133	27,133	27,133	27,133	27,133	$0	$0
STEAM ELECTRIC POWER, SOMERVELL	G	SOMERVELL COUNTY WSP	G | BRAZOS RUN-OF-RIVER	300	300	484	484	484	484	$1059	$3493
STEAMBOAT MOUNTAIN WSC	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	182	185	189	194	203	210	$100	$100
STEPHENS REGIONAL SUD	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	400	400	400	400	400	400	$2492	$1228
STRAWN	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	5	16	22	22	22	22	$496	$496
SWEETWATER	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	574	806	969	1,187	1,394	1,576	$815	$201
SWEETWATER	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	39	0	0	0	0	0	$496	N/A
SWEETWATER	G	OAK CREEK RESERVOIR-CONJUNCTIVE USE	F | OAK CREEK LAKE/RESERVOIR	737	584	441	287	133	0	$0	N/A
TAYLOR	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	75	73	17	0	0	0	$470	N/A
TEMPLE	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	3,080	4,262	3,994	314	2,447	2,245	$0	$0
TEMPLE	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	914	2,740	5,015	7,724	10,771	11,850	$474	$474
TEMPLE	G	TRINITY - WILLIAMSON COUNTY ASR	G | TRINITY AQUIFER ASR | WILLIAMSON COUNTY	4,761	3,759	3,323	7,727	5,730	4,504	$0	$0
TEXAS A & M UNIVERSITY	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	416	942	1,418	1,869	2,289	2,670	$470	$470
THROCKMORTON	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	193	193	193	193	193	193	$2492	$1228
THROCKMORTON	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	8	20	32	45	44	44	$474	$474
THROCKMORTON	G	THROCKMORTON OCR	G | THROCKMORTON LAKE/RESERVOIR	1,125	1,125	1,125	1,125	1,125	1,125	$1760	$207
TOLAR	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | HOOD COUNTY	0	0	0	12	12	24	N/A	$91
TRI-COUNTY SUD	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | LIMESTONE COUNTY	202	202	202	202	202	202	$1329	$729
TYE	G	CEDAR RIDGE RESERVOIR	G | CEDAR RIDGE LAKE/RESERVOIR	2	4	6	9	13	15	$100	$100

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
UPPER LEON MWD - UNASSIGNED WATER VOLUMES	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,457	1,896	1,940	2,173	2,231	2,323	$0	$0
UPPER LEON MWD - UNASSIGNED WATER VOLUMES	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | COMANCHE COUNTY	2,040	2,040	2,040	2,040	2,040	2,040	$319	$100
VALLEY MILLS	G	BOSQUE COUNTY REGIONAL PROJECT	G | CLIFTON LAKE/RESERVOIR	182	182	182	182	182	182	$2126	$236
VALLEY MILLS	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	10	31	48	47	48	48	$474	$474
VENUS	C	CONSERVATION - VENUS	DEMAND REDUCTION	0	0	1	1	2	2	N/A	$738
VENUS	C	CONSERVATION, WATER LOSS CONTROL - VENUS	DEMAND REDUCTION	0	0	0	0	0	0	N/A	N/A
VENUS	C	MIDLOTHIAN UNALLOCATED SUPPLY UTILIZATION	C | TRWD LAKE/RESERVOIR SYSTEM	160	198	232	255	273	281	$0	$0
VENUS	C	SULPHUR BASIN SUPPLY	D | MARVIN NICHOLS LAKE/RESERVOIR	0	0	0	0	0	193	N/A	$1131
VENUS	C	SULPHUR BASIN SUPPLY	D | WRIGHT PATMAN LAKE/RESERVOIR	0	0	0	24	49	65	N/A	$1131
VENUS	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRINITY INDIRECT REUSE	0	12	22	18	23	18	N/A	$239
VENUS	C	TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS	C | TRWD LAKE/RESERVOIR SYSTEM	0	3	6	6	8	24	N/A	$239
VENUS	C	TRWD - CEDAR CREEK WETLANDS	C | TRINITY INDIRECT REUSE	0	31	62	104	89	81	N/A	$114
VENUS	C	TRWD - TEHUACANA	C | TEHUACANA LAKE/RESERVOIR	0	0	29	56	29	38	N/A	$149
VENUS	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	30	90	115	127	140	156	$470	$470
VENUS	I	UNM-ROR-NECHES RUN OF RIVER	I | NECHES RUN-OF-RIVER	0	0	0	0	109	0	N/A	N/A
WACO	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	1,462	4,033	6,781	9,781	11,940	12,554	$474	$474
WACO	G	REUSE- WMARSS BELLMEAD/ LACY-LAKEVIEW	G | DIRECT REUSE	0	0	0	0	0	0	N/A	N/A
WACO	G	TRINITY - MCLENNAN COUNTY ASR	G | TRINITY AQUIFER ASR | MCLENNAN COUNTY	7,750	7,550	7,550	7,400	7,400	7,400	$677	$218
WACO - UNASSIGNED WATER VOLUMES	G	REUSE- WMARSS FLAT CREEK	G | DIRECT REUSE	7,847	7,847	7,847	7,847	7,847	7,847	$205	$105
WALNUT SPRINGS	G	BOSQUE COUNTY REGIONAL PROJECT	G | CLIFTON LAKE/RESERVOIR	64	64	64	64	64	64	$5344	$547
WELLBORN SUD	G	BRA SYSTEM OPERATION MAIN STEM	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	0	2,240	2,240	2,240	2,240	N/A	$2240
WELLBORN SUD	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	78	279	508	563	633	713	$474	$474
WEST	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	15	23	13	7	6	6	$470	$470
WEST BRAZOS WSC	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | FALLS COUNTY	202	202	202	202	202	216	$1446	$319
WHITE BLUFF COMMUNITY WS	G	MUNICIPAL WATER CONSERVATION (RURAL)	DEMAND REDUCTION	24	63	103	125	128	132	$474	$474
WHITNEY	G	MUNICIPAL WATER CONSERVATION (URBAN)	DEMAND REDUCTION	17	50	70	68	69	71	$474	$474
WILLIAMSON COUNTY MUD #10	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	61	181	352	489	587	688	$470	$470
WILLIAMSON COUNTY MUD #11	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	35	103	193	233	278	326	$470	$470

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
WILLIAMSON COUNTY MUD #9	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	37	128	263	319	382	448	$470	$470
WILLIAMSON-TRAVIS COUNTY MUD #1	K	DROUGHT MANAGEMENT	DEMAND REDUCTION	23	22	22	22	22	22	$50	$50
WOODWAY	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	7	20	57	74	103	N/A	$500
WOODWAY	G	MUNICIPAL WATER CONSERVATION (SUBURBAN)	DEMAND REDUCTION	208	512	832	1,180	1,541	1,906	$470	$470
Region G Total RecommendedWMS Supplies				434,239	534,111	558,364	614,106	657,541	705,820		

Recommended Projects Associated with Water Management Strategies

Project Sponosr Region: G

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
ABILENE	Y	BRUSH CONTROL	BRUSH CONTROL CAPITAL COST	$7,532,000	2020
ABILENE	Y	CEDAR RIDGE RESERVOIR	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$290,868,000	2020
ABILENE	Y	WTP EXPANSION (23.2 MGD)-ABILENE	WATER TREATMENT PLANT EXPANSION	$48,257,000	2020
AQUILLA WSD	Y	LAKE AQUILLA AUGMENTATION-A	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	$5,714,856	2020
BARTLETT	N	TRINITY AQUIFER DEVELOPMENT- BARTLETT	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$10,428,000	2020
BELL COUNTY WCID #1	Y	BELL COUNTY WCID #1- NORTH REUSE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	$12,146,000	2020
BELL COUNTY WCID #1	Y	BELL COUNTY WCID #1- SOUTH REUSE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW WATER TREATMENT PLANT	$6,529,000	2020
BELLMEAD	N	REUSE- BELLMEAD/ LACY-LAKE	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$2,884,000	2020
BELL-MILAM FALLS WSC	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	$2,808,467	2020
BISTONE MWSD	Y	CARRIZO (BRAZOS) DEVELOPMENT-BISTONE MWSD	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$22,689,000	2020
BRAZOS RIVER AUTHORITY	Y	BELTON TO STILLHOUSE PIPELINE-BRA	CONVEYANCE/TRANSMISSION PIPELINE; DIVERSION AND CONTROL STRUCTURE; NEW SURFACE WATER INTAKE	$38,069,000	2020
BRAZOS RIVER AUTHORITY	Y	BRA SYSTEM OPERATION-MAIN STEM	NEW AGREEMENT	$23,581,674	2020
BRAZOS RIVER AUTHORITY	Y	BRA SYSTEM OPERATIONS-LITTLE RIVER	NEW WATER RIGHT/PERMIT	$23,581,674	2050
BRAZOS RIVER AUTHORITY	Y	CHLORIDE CONTROL PROJECT-BRA	INJECTION WELL; NEW WATER TREATMENT PLANT	$172,652,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE AQUILLA REALLOCATION- BRA	RAISE CONSERVATION POOL	$21,887,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE GRANGER ASR	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$99,820,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE GRANGER AUGMENTATION-PHASE 1-BRA	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; WATER TREATMENT PLANT EXPANSION	$85,170,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE GRANGER AUGMENTATION-PHASE 2-BRA	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$637,057,000	2020
BRAZOS RIVER AUTHORITY	Y	LITTLE RIVER OCR-BRA	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION	$487,611,000	2030
BRECKENRIDGE	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	$8,308,142	2020
BRUSHY CREEK MUD	N	EDWARDS AQUIFER DEVELOPMENT-BRUSHY CREEK MUD	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$182,000	2050
BRYAN	Y	BRYAN ASR (CARRIZO-WILCOX)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	$57,328,000	2020
BRYAN	Y	CARRIZO-WILCOX DEVELOPMENT-BRYAN	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; WATER TREATMENT PLANT EXPANSION	$24,569,609	2020
BRYAN	Y	REUSE- BRYAN (OPTION 1)	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$8,989,000	2020
BRYAN	Y	REUSE- MIRAMONT	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$2,544,000	2020
CEDAR PARK	Y	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	$69,665,771	2020

Recommended Projects Associated with Water Management Strategies

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
CENTRAL TEXAS WSC	Y	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	$11,233,867	2020
CHILDRESS CREEK WSC	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$5,074,000	2020
CHILDRESS CREEK WSC	N	TRINITY WELL REHAB-CHILDRESS CREEK WSC	DEEPEN WELL	$15,000	2050
CHISHOLM TRAIL SUD	N	CHISHOLM TRAIL SUD WTP EXPANSION	NEW WATER TREATMENT PLANT	$31,675,000	2020
CLEBURNE	Y	LAKE AQUILLA AUGMENTATION-A	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	$73,912,144	2020
CLEBURNE	Y	REUSE- CLEBURNE	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$14,059,000	2020
CLIFTON	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$5,135,000	2020
COLLEGE STATION	N	COLLEGE STATION ASR (REUSE)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	$63,850,000	2020
COLLEGE STATION	N	REUSE-COLLEGE STATION	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$1,705,000	2020
COLLEGE STATION	N	YEGUA-JACKSON DEVELOPMENT-COLLEGE STATION	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$32,957,000	2020
COUNTY-OTHER, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$3,736,000	2040
COUNTY-OTHER, COMANCHE	N	TRINITY AQUIFER DEVELOPMENT- COMANCHE COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$2,033,000	2020
COUNTY-OTHER, CORYELL	N	TRINITY AQUIFER DEVELOPMENT- CORYELL COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$4,428,000	2050
COUNTY-OTHER, ERATH	N	TRINITY AQUIFER DEVELOPMENT- ERATH COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$2,195,000	2060
COUNTY-OTHER, FALLS	N	UPGRADE WTP FOR ARSENIC-FALLS COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	$220,000	2020
COUNTY-OTHER, HILL	N	UPGRADE WTP FOR ARSENIC-HILL COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	$1,042,000	2020
COUNTY-OTHER, HOOD	N	TRINITY AQUIFER DEVELOPMENT- HOOD COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$6,164,000	2020
COUNTY-OTHER, LIMESTONE	N	UPGRADE WTP FOR ARSENIC-LIMESTONE COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	$1,115,000	2020
COUNTY-OTHER, MCLENNAN	N	UPGRADE WTP FOR ARSENIC-MCLENNAN COUNTY OTHER	WATER TREATMENT PLANT EXPANSION	$3,811,000	2020
COUNTY-OTHER, ROBERTSON	N	CARRIZO AQUIFER DEVELOPMENT-ROBERTSON COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$825,000	2070
COUNTY-OTHER, SHACKELFORD	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	$3,776,429	2020
COUNTY-OTHER, SOMERVELL	N	SOMERVELLE COUNTY WATER SUPPLY PROJECTS PHASES 1-4, 7A, 9-17	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$35,249,000	2020
COUNTY-OTHER, WILLIAMSON	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	$11,534,774	2020
CRESSON	N	TRINITY AQUIFER DEVELOPMENT- CRESSON	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$771,000	2040
CROSS COUNTRY WSC	N	INTERCONNECT FROM WACO TO CROSS COUNTRY WSC	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	$2,579,000	2050
FLORENCE	N	EDWARDS AQUIFER DEVELOPMENT-FLORENCE	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$218,000	2060
FLORENCE	N	TRINITY AQUIFER DEVELOPMENT (BELL CO.)-FLORENCE	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$3,778,000	2020
GEORGETOWN	N	EXPAND WTP (21 MGD)- GEORGETOWN	WATER TREATMENT PLANT EXPANSION	$44,534,000	2030
GODLEY	N	WOODBINE AQUIFER DEVELOPMENT-GODLEY	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$375,000	2060

Recommended Projects Associated with Water Management Strategies

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
GRANGER	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	$1,003,024	2020
GROESBECK	N	GROESBECK OCR- GROESBECK	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION	$11,909,000	2020
HARKER HEIGHTS	N	INTERCONNECT FROM KILLEEN TO HARKER HEIGHTS	CONVEYANCE/TRANSMISSION PIPELINE; STORAGE TANK; PUMP STATION	$2,580,000	2070
HEART OF TEXAS WATER SUPPLIERS LLC	Y	CARRIZO AQUIFER DEVELOPMENT-HUTTO (HEART OF TEXAS-LEE CO.)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	$127,086,000	2020
HEWITT	N	REUSE- BULLHIDE CREEK	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$4,657,000	2020
IRRIGATION, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$13,384,000	2020
IRRIGATION, BELL	N	TRINITY AQUIFER DEVELOPMENT-BELL COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$2,541,000	2070
IRRIGATION, BOSQUE	N	TRINITY AQUIFER DEVELOPMENT-BOSQUE COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$11,048,000	2020
IRRIGATION, COMANCHE	N	TRINITY AQUIFER DEVELOPMENT- COMANCHE COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$11,015,000	2050
IRRIGATION, EASTLAND	N	TRINITY AQUIFER DEVELOPMENT- EASTLAND COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$24,210,000	2020
IRRIGATION, HAMILTON	N	TRINITY AQUIFER DEVELOPMENT- HAMILTON COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$1,173,000	2020
IRRIGATION, KNOX	N	3LAINE AQUIFER DEVELOPMENT- KNOX COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$2,436,000	2020
IRRIGATION, KNOX	N	SEYMOUR AQUIFER DEVELOPMENT- KNOX COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$9,817,000	2020
IRRIGATION, LAMPASAS	N	TRINITY AQUIFER DEVELOPMENT- LAMPASAS COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$3,049,000	2020
IRRIGATION, MCLENNAN	N	BRAZOS RIVER ALLUVIUM DEVELOPMENT-MCLENNAN COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$16,763,000	2020
IRRIGATION, ROBERTSON	N	CARRIZO AQUIFER DEVELOPMENT-ROBERTSON COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$128,018,000	2020
IRRIGATION, STEPHENS	N	OTHER AQUIFER DEVELOPMENT-STEPHENS IRRIGATION	MULTIPLE WELLS/WELL FIELD	$640,000	2020
IRRIGATION, WILLIAMSON	N	EDWARDS AQUIFER DEVELOPMENT-WILLIAMSON IRRIGATION	MULTIPLE WELLS/WELL FIELD	$1,220,000	2020
IRRIGATION, YOUNG	N	OTHER AQUIFER DEVELOPMENT-YOUNG IRRIGATION	MULTIPLE WELLS/WELL FIELD	$1,172,000	2020
JARRELL	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	$501,512	2020
JAYTON	N	NEW WTP(0.4 MGD)-JAYTON	WATER TREATMENT PLANT EXPANSION	$3,537,000	2020
JONAH WATER SUD	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	$15,045,357	2020
LACY-LAKEVIEW	N	REUSE- BELLMEAD/ LACY-LAKE	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$2,884,000	2020
LEANDER	N	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	$142,186,421	2020
LIBERTY HILL	N	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	$3,554,660	2020
LORENA	N	REUSE- BULLHIDE CREEK	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$2,884,000	2020
MANUFACTURING, BRAZOS	N	GULF COAST DEVELOPMENT-BRAZOS COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$8,932,000	2020
MANUFACTURING, BURLESON	N	SPARTA AQUIFER DEVELOPMENT-BURLESON COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$932,000	2020
MANUFACTURING, FISHER	N	DOCKUM AQUIFER DEVELOPMENT- FISHER COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$10,081,000	2020
MANUFACTURING, WASHINGTON	N	GULF COAST DEVELOPMENT-WASHINGTON MININGMANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$3,380,000	2020

Recommended Projects Associated with Water Management Strategies

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
MARLIN	N	BRUSHY CREEK RESERVOIR- MARLIN	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK	$20,836,000	2020
MART	N	INTERCONNECT FROM WACO TO MART	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	$5,617,000	2020
MART	N	INTERCONNECT FROM WACO TO NORTH BOSQUE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	$2,203,000	2030
MERIDIAN	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$3,220,000	2020
MINING, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$13,846,000	2020
MINING, BELL	N	TRINITY AQUIFER DEVELOPMENT-BELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$14,731,000	2020
MINING, BURLESON	N	SPARTA AQUIFER DEVELOPMENT-BURLESON COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$5,466,000	2020
MINING, CALLAHAN	N	TRINITY AQUIFER DEVELOPMENT CALLAHAN MINING	MULTIPLE WELLS/WELL FIELD	$1,695,000	2020
MINING, COMANCHE	N	TRINITY AQUIFER DEVELOPMENT- COMANCHE COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$4,475,000	2020
MINING, CORYELL	N	TRINITY AQUIFER DEVELOPMENT- CORYELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$20,220,000	2020
MINING, EASTLAND	N	TRINITY AQUIFER DEVELOPMENT- EASTLAND COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$8,202,000	2020
MINING, FISHER	N	DOCKUM AQUIFER DEVELOPMENT- FISHER COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$3,035,000	2020
MINING, GRIMES	N	CARRIZO AQUIFER DEVELOPMENT-GRIMES COUNTY MINING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$5,805,000	2020
MINING, HAMILTON	N	TRINITY AQUIFER DEVELOPMENT HAMILTON MINING	MULTIPLE WELLS/WELL FIELD	$2,734,000	2020
MINING, HILL	N	WOODBINE AQUIFER DEVELOPMENT- HILL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$4,684,000	2020
MINING, HOOD	N	TRINITY AQUIFER DEVELOPMENT- HOOD COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$6,197,000	2020
MINING, JOHNSON	N	WOODBINE AQUIFER DEVELOPMENT- JOHNSON COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$4,684,000	2020
MINING, KNOX	N	BLAINE AQUIFER DEVELOPMENT- KNOX COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$223,000	2020
MINING, LAMPASAS	N	TRINITY AQUIFER DEVELOPMENT- LAMPASAS COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$2,219,000	2020
MINING, LIMESTONE	N	CARRIZO (BRAZOS) DEVELOPMENT-LIMESTONE COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$31,546,000	2020
MINING, LIMESTONE	N	CARRIZO (TRINITY) DEVELOPMENT-LIMESTONE COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$5,871,000	2020
MINING, MCLENNAN	N	BRAZOS RIVER ALLUVIUM DEVELOPMENT-MCLENNAN COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$7,185,000	2020
MINING, NOLAN	N	EDWARDS AQUIFER DEVELOPMENT-NOLAN COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$2,448,000	2020
MINING, SHACKELFORD	N	OTHER AQUIFER DEVELOPMENT-SHACKELFORD MINING	MULTIPLE WELLS/WELL FIELD	$8,095,000	2020
MINING, SOMERVELL	N	TRINITY AQUIFER DEVELOPMENT- SOMERVELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	$3,502,000	2020
MINING, STONEWALL	N	BLAINE AQUIFER DEVELOPMENT- STONEWALL MINING	MULTIPLE WELLS/WELL FIELD	$3,434,000	2020
MINING, THROCKMORTON	N	OTHER AQUIFER DEVELOPMENT-THROCKMORTON MINING	MULTIPLE WELLS/WELL FIELD	$2,344,000	2020
MINING, WASHINGTON	N	GULF COAST DEVELOPMENT-WASHINGTON MINING	MULTIPLE WELLS/WELL FIELD	$6,245,000	2020
MINING, YOUNG	N	OTHER AQUIFER DEVELOPMENT-YOUNG MINING	MULTIPLE WELLS/WELL FIELD	$3,089,000	2020
MULTI-COUNTY WSC	N	CORYELL COUNTY OCR-BRA	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION	$42,246,000	2030
NORTH BOSQUE WSC	N	INTERCONNECT FROM WACO TO NORTH BOSQUE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	$2,203,000	2030

Recommended Projects Associated with Water Management Strategies

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
NORTH CENTRAL TEXAS MUNICIPAL WATER AUTHORITY	Y	MILLERS CREEK AUGMENTATION-NCTWA	RESERVOIR CONSTRUCTION	$74,399,000	2020
PALO PINTO COUNTY MWD #1	Y	TURKEY PEAK RESERVOIR	RESERVOIR CONSTRUCTION	$71,988,000	2020
PARKER WSC	N	WOODBINE AQUIFER DEVELOPMENT- PARKER WSC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$1,128,000	2060
RIO VISTA	N	WOODBINE AQUIFER DEVELOPMENT-RIO VISTA	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$753,000	2020
ROBINSON	N	EXPAND WTP(4MGD)-ROBINSON	WATER TREATMENT PLANT EXPANSION	$13,153,000	2020
ROUND ROCK	Y	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	$102,994,808	2020
STEAM ELECTRIC POWER, GRIMES	N	CARRIZO AQUIFER DEVELOPMENT-GRIMES COUNTY STEAM-ELECTRIC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$8,182,000	2020
STEAM ELECTRIC POWER, GRIMES	N	GIBBONS CREEK RESERVOIR-GRIMES SE	RAISE CONSERVATION POOL	$12,979,000	2020
STEAM ELECTRIC POWER, GRIMES	N	GULF COAST DEVELOPMENT-GRIMES COUNTY STEAM-ELECTRIC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$22,459,000	2020
STEAM ELECTRIC POWER, SOMERVELL	N	BRA SYSTEM OPS INFRASTRUCTURE-SOMERVELL SE	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION	$128,162,000	2020
STEPHENS REGIONAL SUD	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	$6,042,286	2020
SWEETWATER	Y	INTERCONNECT FROM ABILENE TO SWEETWATER	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	$13,036,000	2020
THROCKMORTON	N	THROCKMORTON RESERVOIR-THROCKMORTON	RESERVOIR CONSTRUCTION	$28,041,000	2020
THROCKMORTON	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	$2,915,403	2020
TOLAR	N	TRINITY WELL REHAB- TOLAR	DEEPEN WELL	$20,000	2050
TRI-COUNTY SUD	N	CARRIZO-WILCOX DEVELOPMENT-TRI-COUNTY SUD	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$1,445,000	2020
UPPER LEON MWD	Y	TRINITY AQUIFER DEVELOPMENT- UPPER LEON (FROM PECAN ORCHARD)	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$5,347,000	2020
VALLEY MILLS	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$4,730,000	2020
WACO	Y	MCLENNAN COUNTY ASR (WACO)	MULTIPLE WELLS/WELL FIELD	$43,940,000	2020
WACO	Y	REUSE- FLAT CREEK	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	$9,371,000	2020
WALNUT SPRINGS	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$4,213,000	2020
WELLBORN SUD	N	EXPAND WTP (4MGD)- WELLBORN SUD	WATER TREATMENT PLANT EXPANSION	$13,153,000	2040
WEST BRAZOS WSC	N	CARRIZO AQUIFER DEVELOPMENT-WEST BRAZOS WSC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$2,752,000	2020
			Region G Total Recommended Capital Cost	**$3,926,014,878**	

***Projects with a capital cost of zero are excluded from the report list.**

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

WUG Entity Primary Region: G

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
ABILENE	G	POSSUM KINGDOM TO ABILENE	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	14,800	14,800	14,800	14,800	14,800	14,800	$2586	$1063
ASPERMONT	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	33	47	62	76	90	105	$0	$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 1	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	17,017	17,017	17,017	17,017	17,017	17,017	$0	$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 1	G | TRINITY AQUIFER | WILLIAMSON COUNTY	8,509	8,509	8,509	8,509	8,509	8,509	$584	$305
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 2	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	18,107	18,107	18,107	18,107	18,107	18,107	$0	$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 2	G | CARRIZO-WILCOX AQUIFER | MILAM COUNTY	28,118	28,118	28,118	28,118	28,118	28,118	$1611	$458
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	SEDIMENT REDUCTION PROGRAM (LAKE LIMESTONE WATERSHED)	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	177	355	532	710	888	N/A	$167
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	STORAGE REALLOCATION OF LAKE GRANGER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,940	1,940	1,940	1,940	1,940	1,940	$1552	$314
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	STORAGE REALLOCATION OF LAKE WHITNEY	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	20,842	20,842	20,842	20,842	20,842	20,842	$361	$4
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	STORAGE REALLOCATION OF STILLHOUSE HOLLOW RESERVOIR	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,643	2,643	2,643	2,643	2,643	2,643	$1177	$19
BRYAN	G	CARRIZO AQUIFER DEVELOPMENT	G | CARRIZO-WILCOX AQUIFER | ROBERTSON COUNTY	3,826	3,826	4,171	5,565	11,826	19,478	$1006	$323
COLLEGE STATION	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	6,000	6,000	6,000	6,000	6,000	6,000	$1065	$547
COLLEGE STATION - UNASSIGNED WATER VOLUMES	G	DPR- COLLEGE STATION	G | DIRECT REUSE	2,800	2,800	2,800	2,800	2,800	2,800	$3484	$1805
COUNTY-OTHER, CORYELL	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	100	200	525	N/A	$1309
COUNTY-OTHER, HASKELL	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	53	76	100	123	146	170	$0	$0
COUNTY-OTHER, HOOD	G	ACTON MUD REDUCTION TO HOOD COUNTY-OTHER	G | BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	968	344	77	121	22	0	$977	N/A
GLEN ROSE	G	SOMERVELL COUNTY WSP	G | BRAZOS RUN-OF-RIVER	0	0	0	0	50	50	N/A	$1059

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

Water Management Strategy Supplies

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	2020	2030	2040	2050	2060	2070	Unit Cost 2020	Unit Cost 2070
HALLSBURG	G	REUSE- WMARSS WACO EAST	G | DIRECT REUSE	31	31	31	31	31	31	$869	$191
HASKELL	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	176	254	332	410	488	566	$0	$0
HUTTO	G	LITTLE RIVER OCR	G | LITTLE RIVER OFF-CHANNEL LAKE/RESERVOIR	0	378	2,181	4,001	6,215	8,499	N/A	$350
IRRIGATION, BELL	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,200	1,200	1,200	1,200	1,200	1,250	$66	$66
IRRIGATION, MCLENNAN	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,200	1,200	1,200	1,200	1,200	1,200	$66	$66
IRRIGATION, MCLENNAN	G	TRINITY AQUIFER DEVELOPMENT	G | TRINITY AQUIFER | MCLENNAN COUNTY	1,000	1,000	1,000	1,000	1,000	1,000	$1047	$86
IRRIGATION, PALO PINTO	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,494	2,392	2,299	2,260	2,222	2,188	$66	$66
JOHNSON COUNTY SUD	G	TRINITY - JOHNSON COUNTY ASR	G | TRINITY AQUIFER ASR | JOHNSON COUNTY	2,000	2,000	2,000	2,000	2,000	2,000	$1131	$640
KNOX CITY	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	72	104	136	167	199	231	$0	$0
MANUFACTURING, BELL	G	REUSE-BCWCID #1 NORTH	G | DIRECT REUSE	1,000	1,000	1,000	1,360	1,360	1,360	$765	$765
MANUFACTURING, BURLESON	G	CALDWELL REDUCTION TO BURLESON MANUFACTURING	G | CARRIZO-WILCOX AQUIFER | BURLESON COUNTY	0	50	50	50	85	85	N/A	$500
MART	G	REUSE- WMARSS WACO EAST	G | DIRECT REUSE	134	134	134	134	134	134	$869	$191
MERIDIAN	G	MERIDIAN OCR	G | MERIDIAN OFF-CHANNEL LAKE/RESERVOIR	615	615	615	615	615	615	$3961	$1220
MINING, MCLENNAN	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G | BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	1,050	1,050	1,050	N/A	$66
MUNDAY	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	74	107	140	173	205	238	$0	$0
NORTH CENTRAL TEXAS MUNICIPAL WATER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	13,815	13,511	13,208	12,905	12,601	12,298	$1308	$313
PALO PINTO COUNTY MWD #1 - UNASSIGNED WATER VOLUMES	G	PALO PINTO OCR	G | LAKE PALO PINTO OFF-CHANNEL LAKE/RESERVOIR	3,110	3,110	3,110	3,110	3,110	3,110	$980	$169
RIESEL	G	REUSE- WMARSS WACO EAST	G | DIRECT REUSE	43	43	43	43	43	43	$869	$191
ROUND ROCK	G	TRINITY - WILLIAMSON COUNTY ASR	G | TRINITY AQUIFER ASR | WILLIAMSON COUNTY	0	0	0	0	9,050	9,050	N/A	$368
RULE	G	LAKE CREEK RESERVOIR	G | LAKE CREEK LAKE/RESERVOIR	12	18	23	29	34	40	$0	$0
VENUS	G	WOODBINE AQUIFER DEVELOPMENT	G | WOODBINE AQUIFER | JOHNSON COUNTY	0	150	150	450	450	450	N/A	$203
WACO - UNASSIGNED WATER VOLUMES	G	REUSE- WMARSS WACO EAST	G | DIRECT REUSE	0	0	0	0	0	0	N/A	N/A
Region G Total Alternative WMS Supplies				152,632	152,543	154,393	159,481	177,112	187,430		

Alternative Projects Associated with Water Management Strategies

Project Sponsor Region: G

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
ABILENE	Y	POSSUM KINGDOM RESERVOIR PURCHASE AND USE- ABILENE	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	$269,334,000	2020
BRAZOS RIVER AUTHORITY	Y	SEDIMENT REDUCTION PROGRAM-BRA	NEW AGREEMENT	$1,075,000	2020
BRAZOS RIVER AUTHORITY	Y	STORAGE REALLOCATION OF GRANGER-BRA	RAISE CONSERVATION POOL	$28,710,000	2020
BRAZOS RIVER AUTHORITY	Y	STORAGE REALLOCATION OF LAKE WHITNEY-BRA	RAISE CONSERVATION POOL	$89,948,000	2020
BRAZOS RIVER AUTHORITY	Y	STORAGE REALLOCATION OF STILLHOUSE HOLLOW-BRA	RAISE CONSERVATION POOL	$36,553,000	2020
BRYAN	Y	REUSE- BRYAN (OPTION 2)	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; STORAGE TANK	$24,206,000	2020
BRYAN	Y	ROBERTSON CARRIZO AQUIFER DEVELOPMENT-BRYAN	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; WATER TREATMENT PLANT EXPANSION	$81,595,921	2020
CLEBURNE	Y	LAKE WHITNEY TO CLEBURNE ONLY	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	$46,676,000	2020
COLLEGE STATION	N	BRA SYSTEM OPERATION INTERCONNECT-COLLEGE STATION	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	$37,109,000	2020
COLLEGE STATION	N	COLLEGE STATION - DPR	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT	$63,850,000	2020
HALLSBURG	N	REUSE- WACO EAST	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$250,970	2020
IRRIGATION, MCLENNAN	N	TRINITY AQUIFER DEVELOPMENT- MCLENNAN COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	$11,477,000	2020
JOHNSON COUNTY SUD	Y	JOHNSON COUNTY ASR	MULTIPLE WELLS/WELL FIELD	$11,725,000	2020
MANUFACTURING, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$10,290,000	2020
MART	N	REUSE- WACO EAST	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$1,085,000	2020
MERIDIAN	N	MERIDIAN OCR-MERIDIAN	PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK	$21,702,000	2020
NORTH CENTRAL TEXAS MUNICIPAL WATER AUTHORITY	Y	LAKE CREEK RESERVOIR	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; WATER TREATMENT PLANT EXPANSION	$193,524,000	2020
PALO PINTO COUNTY MWD #1	Y	LAKE PALO PINTO OCR	PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK	$34,118,000	2020
RIESEL	N	REUSE- WACO EAST	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	$348,000	2020
VENUS	N	WOODBINE AQUIFER DEVELOPMENT- VENUS	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	$753,000	2060

Region G Total Alternative Capital Cost	**$964,329,891**

***Projects with a capital cost of zero are excluded from the report list.**

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
439 WSC	1.4	1.3	1.2	1.1	1.0	1.0
ABILENE	1.9	1.0	1.0	1.0	1.0	1.0
ACTON MUD	2.2	1.5	1.3	1.2	1.1	1.0
ALBANY	1.3	1.4	1.5	1.6	1.6	1.7
ALVARADO	5.6	5.2	4.8	4.3	3.9	3.5
ANSON	2.8	2.7	2.7	2.6	2.5	2.5
ARMSTRONG WSC	3.2	3.1	3.0	2.9	2.7	2.6
ASPERMONT	1.7	1.8	1.8	1.9	2.0	2.1
BAIRD	1.3	1.3	1.4	1.4	1.4	1.4
BARTLETT	1.1	1.1	1.1	1.0	1.6	1.6
BELLMEAD	2.1	2.1	2.0	2.0	1.9	1.8
BELL-MILAM FALLS WSC	3.1	2.9	2.8	2.7	2.6	2.4
BELTON	2.0	1.8	1.6	1.4	1.3	1.1
BETHANY WSC	4.2	3.9	3.6	3.3	3.0	2.7
BETHESDA WSC	1.2	1.1	1.2	1.2	1.2	1.3
BEVERLY HILLS	1.0	1.0	1.0	1.0	1.0	1.0
BITTER CREEK WSC	2.5	2.5	2.5	2.5	2.4	2.4
BLOCK HOUSE MUD	1.3	1.3	1.3	1.3	1.4	1.4
BRANDON-IRENE WSC	1.4	1.4	1.4	1.3	1.2	1.2
BRECKENRIDGE	2.4	2.4	2.4	2.4	2.4	2.4
BREMOND	2.1	2.0	1.9	1.8	1.7	1.6
BRENHAM	1.1	1.1	1.1	1.1	1.1	1.1
BRUCEVILLE-EDDY	4.7	4.6	4.4	4.2	3.9	3.8
BRUSHY CREEK MUD	1.0	1.1	1.0	1.0	1.0	1.0
BRYAN	1.2	1.4	1.1	1.1	1.1	1.1
BUCKHOLTS	3.6	3.5	3.4	3.3	3.2	3.1
BURLESON	1.2	1.1	1.1	1.0	1.1	1.2
CALDWELL	2.3	2.3	2.3	2.3	2.2	2.2
CALVERT	2.8	2.9	2.9	2.9	3.0	3.0
CAMERON	2.0	2.0	2.0	2.0	2.0	1.9
CEDAR PARK	1.0	1.0	1.0	1.0	1.0	1.0
CHALK BLUFF WSC	2.7	2.8	2.9	2.9	2.9	2.9
CHILDRESS CREEK WSC	1.6	1.5	1.5	1.8	1.8	1.8
CHISHOLM TRAIL SUD	1.3	1.1	1.0	1.0	1.0	1.1
CISCO	1.3	1.4	1.4	1.4	1.4	1.4
CLEBURNE	2.6	2.4	2.2	2.0	1.7	1.5
CLIFTON	1.5	1.4	1.4	1.4	1.4	1.3
CLYDE	1.8	1.8	1.8	1.8	1.8	1.8
COLLEGE STATION	1.0	1.0	1.1	1.1	1.1	1.1
COMANCHE	1.3	1.3	1.3	1.2	1.1	1.1
COOLIDGE	2.0	1.9	1.8	1.7	1.6	1.5
COPPERAS COVE	2.1	1.9	1.7	1.5	1.3	1.2
CORYELL CITY WATER SUPPLY DISTRICT	1.3	1.3	1.2	1.2	1.2	1.2
COUNTY-OTHER, BELL	2.3	1.2	1.0	1.0	1.0	1.0
COUNTY-OTHER, BOSQUE	1.2	1.1	1.1	1.1	1.1	1.0
COUNTY-OTHER, BRAZOS	1.0	1.6	1.8	1.6	1.3	1.0
COUNTY-OTHER, BURLESON	1.4	1.3	1.2	1.1	1.1	1.0
COUNTY-OTHER, CALLAHAN	1.1	1.0	1.0	1.0	1.0	1.0
COUNTY-OTHER, COMANCHE	1.0	1.0	1.0	1.0	1.1	1.1
COUNTY-OTHER, CORYELL	2.5	1.7	1.2	1.0	1.0	1.0

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
COUNTY-OTHER, EASTLAND	1.0	1.1	1.1	1.1	1.1	1.1
COUNTY-OTHER, ERATH	1.3	1.2	1.1	1.0	1.0	1.0
COUNTY-OTHER, FALLS	1.2	1.2	1.2	1.2	1.2	1.1
COUNTY-OTHER, FISHER	1.4	1.4	1.5	1.5	1.5	1.5
COUNTY-OTHER, GRIMES	1.1	1.1	1.1	1.1	1.1	1.0
COUNTY-OTHER, HAMILTON	1.4	1.4	1.4	1.4	1.5	1.5
COUNTY-OTHER, HASKELL	2.2	2.2	2.1	1.9	1.8	1.7
COUNTY-OTHER, HILL	1.5	1.5	1.4	1.4	1.4	1.4
COUNTY-OTHER, HOOD	1.0	1.3	1.5	1.4	1.5	1.7
COUNTY-OTHER, JOHNSON	1.1	1.1	1.1	1.2	1.2	1.2
COUNTY-OTHER, JONES	1.3	1.2	1.2	1.2	1.1	1.1
COUNTY-OTHER, KENT	1.4	1.4	1.4	1.4	1.4	1.4
COUNTY-OTHER, KNOX	1.7	1.6	1.5	1.4	1.2	1.1
COUNTY-OTHER, LAMPASAS	1.2	1.3	1.4	1.5	1.6	1.7
COUNTY-OTHER, LEE	1.2	1.1	1.0	1.0	1.0	1.0
COUNTY-OTHER, LIMESTONE	1.4	1.5	1.5	1.4	1.4	1.4
COUNTY-OTHER, MCLENNAN	1.0	1.1	1.1	1.1	1.1	1.1
COUNTY-OTHER, MILAM	3.2	3.1	3.0	2.8	2.7	2.6
COUNTY-OTHER, NOLAN	1.3	1.3	1.3	1.2	1.2	1.2
COUNTY-OTHER, PALO PINTO	2.2	2.2	2.2	2.1	2.1	2.0
COUNTY-OTHER, ROBERTSON	1.7	1.5	1.3	1.1	1.0	1.1
COUNTY-OTHER, SHACKELFORD	3.0	3.2	3.3	3.3	3.3	3.3
COUNTY-OTHER, SOMERVELL	1.7	1.6	1.5	1.4	1.4	1.3
COUNTY-OTHER, STEPHENS	1.3	1.3	1.4	1.4	1.4	1.4
COUNTY-OTHER, STONEWALL	1.4	1.4	1.4	1.5	1.5	1.5
COUNTY-OTHER, TAYLOR	1.6	1.6	1.6	1.6	1.6	1.5
COUNTY-OTHER, THROCKMORTON	2.1	2.2	2.2	2.2	2.2	2.2
COUNTY-OTHER, WASHINGTON	1.1	1.0	1.0	1.0	1.0	1.0
COUNTY-OTHER, WILLIAMSON	1.0	1.0	1.0	1.0	1.0	1.0
COUNTY-OTHER, YOUNG	1.4	1.3	1.3	1.2	1.1	1.1
CRAWFORD	1.0	1.1	1.2	1.2	1.2	1.1
CRESSON	1.9	1.6	1.8	1.6	1.5	1.4
CROSS COUNTRY WSC	1.2	1.2	1.2	1.1	1.0	1.0
CROSS PLAINS	2.3	2.3	2.2	2.2	2.2	2.1
DE LEON	1.4	1.4	1.4	1.3	1.2	1.2
DEANVILLE WSC	1.5	1.5	1.4	1.4	1.4	1.4
DOG RIDGE WSC	3.7	3.3	3.0	2.6	2.3	2.1
DUBLIN	1.4	1.3	1.2	1.2	1.1	1.0
EAST BELL WSC	3.0	2.7	2.4	2.2	2.0	1.8
EASTLAND	4.9	5.0	5.1	5.1	5.2	5.2
ELM CREEK WSC	1.3	1.2	1.0	1.0	1.0	1.0
FERN BLUFF MUD	1.0	1.0	1.0	1.0	1.0	1.0
FILES VALLEY WSC	2.2	2.4	2.2	2.0	1.9	1.7
FLORENCE	1.5	1.5	1.4	1.4	1.4	1.3
FORT BELKNAPP WSC	1.1	1.1	1.1	1.1	1.0	1.0
FORT HOOD	1.5	1.5	1.6	1.6	1.6	1.5
FRANKLIN	2.5	2.3	2.2	2.0	1.9	1.8
GATESVILLE	1.1	1.6	1.5	1.4	1.4	1.3
GEORGETOWN	1.0	1.6	1.4	1.3	1.1	1.1
GHOLSON	6.0	5.6	5.2	4.9	4.5	4.3

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
GIDDINGS	1.6	1.5	1.5	1.5	1.5	1.5
GLEN ROSE	1.3	1.2	1.3	1.3	1.3	1.2
GODLEY	1.4	1.3	1.2	1.1	1.1	1.0
GOLINDA	1.1	1.0	1.0	1.0	1.0	1.0
GORMAN	1.7	1.8	1.8	1.7	1.7	1.7
GRAFORD	1.5	1.5	1.5	1.4	1.4	1.4
GRAHAM	1.2	1.3	1.3	1.3	1.4	1.4
GRANBURY	1.7	1.5	1.3	1.2	1.1	1.1
GRANDVIEW	2.0	1.9	1.7	1.6	1.4	1.3
GRANGER	1.4	1.4	1.3	1.2	1.1	1.0
GROESBECK	2.6	2.6	2.6	2.6	2.6	2.6
HALLSBURG	1.0	1.0	1.0	1.0	1.0	1.0
HAMILTON	1.1	1.1	1.3	1.2	1.2	1.1
HAMLIN	1.8	1.9	1.8	1.8	1.8	1.7
HARKER HEIGHTS	1.5	1.4	1.3	1.2	1.1	1.0
HASKELL	1.2	1.3	1.3	1.3	1.3	1.2
HAWLEY	1.0	1.0	1.0	1.0	1.0	1.0
HAWLEY WSC	1.2	1.2	1.2	1.2	1.2	1.1
HEARNE	3.8	3.9	4.0	4.0	4.0	4.0
HEWITT	1.4	1.3	1.3	1.3	1.3	1.2
HICO	2.1	2.2	2.2	2.3	2.3	2.3
HILL COUNTY WSC	2.0	2.0	1.9	1.8	1.8	1.8
HILLSBORO	2.0	1.9	1.9	1.9	1.9	1.8
HOLLAND	4.4	4.5	4.6	4.7	4.6	4.6
HUBBARD	1.2	1.2	1.2	1.2	1.2	1.2
HUTTO	1.9	1.4	1.0	1.0	1.0	1.0
IRRIGATION, BELL	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, BOSQUE	1.0	1.0	1.1	1.1	1.1	1.1
IRRIGATION, BRAZOS	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, BURLESON	1.0	1.0	1.1	1.1	1.2	1.2
IRRIGATION, CALLAHAN	1.3	1.3	1.3	1.4	1.4	1.4
IRRIGATION, COMANCHE	1.0	1.0	1.0	1.1	1.0	1.0
IRRIGATION, CORYELL	3.6	3.6	3.6	3.6	3.6	3.6
IRRIGATION, EASTLAND	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, ERATH	1.1	1.1	1.1	1.1	1.2	1.2
IRRIGATION, FALLS	1.5	1.5	1.6	1.6	1.6	1.7
IRRIGATION, FISHER	1.2	1.2	1.3	1.3	1.3	1.4
IRRIGATION, HAMILTON	1.0	1.0	1.1	1.1	1.0	1.1
IRRIGATION, HASKELL	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, HILL	2.4	2.4	2.4	2.4	2.5	2.5
IRRIGATION, HOOD	1.0	1.1	1.1	1.1	1.1	1.1
IRRIGATION, JOHNSON	2.1	2.1	2.1	2.1	2.0	2.0
IRRIGATION, JONES	0.9	1.0	1.0	1.1	1.0	1.1
IRRIGATION, KENT	1.2	1.2	1.2	1.3	1.3	1.3
IRRIGATION, KNOX	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, LAMPASAS	1.3	1.3	1.3	1.4	1.4	1.4
IRRIGATION, LEE	1.1	1.1	1.1	1.2	1.2	1.2
IRRIGATION, MCLENNAN	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, MILAM	1.1	1.0	1.0	1.1	1.1	1.1
IRRIGATION, NOLAN	0.7	0.7	0.8	0.8	0.8	0.8

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
IRRIGATION, PALO PINTO	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, ROBERTSON	0.4	0.5	0.5	0.5	0.4	0.3
IRRIGATION, SOMERVELL	1.3	1.3	1.3	1.3	1.3	1.3
IRRIGATION, STEPHENS	1.0	1.0	1.1	1.1	1.1	1.1
IRRIGATION, STONEWALL	1.4	1.4	1.5	1.5	1.6	1.6
IRRIGATION, TAYLOR	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, WASHINGTON	1.5	1.5	1.5	1.5	1.5	1.5
IRRIGATION, WILLIAMSON	1.0	1.0	1.0	1.0	1.0	1.0
IRRIGATION, YOUNG	1.0	1.1	1.1	1.1	1.2	1.2
ITASCA	1.5	1.5	1.5	1.5	1.5	1.4
JARRELL	1.9	1.8	1.6	1.5	1.5	1.4
JARRELL-SCHWERTNER WSC	2.5	2.3	2.1	1.7	1.4	1.2
JAYTON	2.7	2.8	2.8	2.8	2.9	2.9
JOHNSON COUNTY SUD	3.7	3.3	3.0	2.6	2.4	2.1
JONAH WATER SUD	2.7	2.2	1.8	1.4	1.2	1.0
JOSHUA	1.0	1.0	1.0	1.0	1.0	1.0
KEENE	3.2	2.7	2.4	2.1	1.8	1.5
KEMPNER	1.0	1.0	1.0	1.0	1.0	1.0
KEMPNER WSC	2.4	2.2	2.0	1.9	1.8	1.7
KILLEEN	2.2	1.9	1.7	1.4	1.2	1.1
KNOX CITY	1.1	1.2	1.3	1.3	1.2	1.2
LACY-LAKEVIEW	2.9	2.7	2.6	2.5	2.3	2.2
LAMPASAS	1.0	1.0	1.0	1.0	1.0	1.0
LEANDER	3.7	2.0	1.3	1.0	1.0	1.0
LEE COUNTY WSC	3.3	3.0	2.8	2.6	2.5	2.3
LEXINGTON	2.8	2.6	2.5	2.4	2.4	2.4
LIBERTY HILL	8.9	7.5	6.3	5.4	4.7	4.1
LITTLE RIVER-ACADEMY	1.1	1.4	1.3	1.2	1.1	1.0
LIVESTOCK, BELL	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, BOSQUE	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, BRAZOS	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, BURLESON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, CALLAHAN	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, COMANCHE	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, CORYELL	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, EASTLAND	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, ERATH	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, FALLS	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, FISHER	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, GRIMES	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, HAMILTON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, HASKELL	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, HILL	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, HOOD	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, JOHNSON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, JONES	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, KENT	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, KNOX	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, LAMPASAS	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, LEE	1.0	1.0	1.0	1.0	1.0	1.0

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
LIVESTOCK, LIMESTONE	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, MCLENNAN	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, MILAM	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, NOLAN	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, PALO PINTO	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, ROBERTSON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, SHACKELFORD	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, SOMERVELL	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, STEPHENS	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, STONEWALL	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, TAYLOR	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, THROCKMORTON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, WASHINGTON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, WILLIAMSON	1.0	1.0	1.0	1.0	1.0	1.0
LIVESTOCK, YOUNG	1.0	1.0	1.0	1.0	1.0	1.0
LOMETA	1.0	1.1	1.1	1.1	1.1	1.1
LORENA	3.0	2.7	2.5	2.3	2.1	2.0
LOTT	3.1	3.1	3.2	3.3	3.3	3.2
MANUFACTURING, BELL	1.1	1.1	1.0	1.2	1.1	1.0
MANUFACTURING, BOSQUE	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, BRAZOS	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, BURLESON	1.0	1.2	1.1	1.0	1.1	1.0
MANUFACTURING, COMANCHE	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, CORYELL	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, EASTLAND	1.5	1.5	1.5	1.4	1.4	1.4
MANUFACTURING, ERATH	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, FALLS	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, FISHER	1.2	1.1	1.3	1.2	1.1	1.0
MANUFACTURING, GRIMES	1.4	1.3	1.1	1.0	1.1	1.1
MANUFACTURING, HAMILTON	1.2	1.2	1.1	1.1	1.1	1.1
MANUFACTURING, HILL	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, HOOD	401.0	371.3	345.7	323.4	294.9	270.9
MANUFACTURING, JOHNSON	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, LAMPASAS	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, LEE	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, LIMESTONE	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, MCLENNAN	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, MILAM	1.2	1.2	1.2	1.0	1.0	1.0
MANUFACTURING, NOLAN	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, PALO PINTO	24.7	22.8	21.2	19.9	18.1	16.4
MANUFACTURING, ROBERTSON	1.9	1.6	1.4	1.3	1.2	1.1
MANUFACTURING, SOMERVELL	2.5	2.2	2.0	1.8	1.7	1.5
MANUFACTURING, STEPHENS	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, TAYLOR	1.0	1.1	1.1	1.1	1.1	1.1
MANUFACTURING, WASHINGTON	1.0	1.0	1.0	1.0	1.0	1.0
MANUFACTURING, WILLIAMSON	1.0	1.0	1.1	1.1	1.1	1.1
MANUFACTURING, YOUNG	1.0	1.0	1.0	1.0	1.0	1.0
MARLIN	2.4	2.4	2.5	2.6	2.6	2.6
MART	1.3	1.2	1.2	1.1	1.1	1.0
MCGREGOR	3.6	3.5	3.4	3.3	3.1	3.0

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
MERIDIAN	1.7	1.6	1.6	1.6	1.6	1.5
MERKEL	1.0	1.0	1.0	1.0	1.0	1.0
MEXIA	3.4	2.9	2.6	2.2	2.0	1.8
MILANO WSC	1.2	1.1	1.0	1.0	1.0	1.0
MINERAL WELLS	1.0	1.0	1.0	1.0	1.0	1.0
MINING, BELL	0.9	0.7	0.6	0.4	0.2	0.1
MINING, BOSQUE	0.1	0.1	0.1	0.1	0.1	0.1
MINING, BRAZOS	0.0	0.1	0.1	0.1	0.1	0.1
MINING, BURLESON	0.8	0.4	0.6	0.7	1.1	1.8
MINING, CALLAHAN	1.0	1.0	1.1	1.2	1.3	1.3
MINING, COMANCHE	1.0	1.0	1.0	1.3	1.0	1.0
MINING, CORYELL	1.0	1.4	1.1	1.4	1.3	1.2
MINING, EASTLAND	1.0	1.0	1.0	1.1	1.0	1.2
MINING, ERATH	1.0	1.0	1.4	1.7	2.2	2.9
MINING, FALLS	1.0	1.0	1.0	1.0	1.0	1.0
MINING, FISHER	1.0	1.0	1.2	1.3	1.5	1.8
MINING, GRIMES	1.1	1.0	1.3	1.1	1.7	1.1
MINING, HAMILTON	1.0	1.7	3.9	0.0	0.0	0.0
MINING, HASKELL	1.0	1.0	1.0	1.0	1.0	1.0
MINING, HILL	1.0	1.4	1.3	2.4	2.2	2.0
MINING, HOOD	1.2	1.0	1.1	1.2	1.2	1.2
MINING, JOHNSON	1.0	1.0	1.9	2.8	2.5	2.1
MINING, JONES	0.0	0.1	0.1	0.1	0.1	0.1
MINING, KENT	12.1	12.1	13.1	14.3	15.8	17.7
MINING, KNOX	1.0	1.1	1.1	1.1	1.1	1.1
MINING, LAMPASAS	1.1	1.0	1.1	1.0	1.1	1.0
MINING, LEE	0.0	0.0	0.1	0.1	0.1	0.1
MINING, LIMESTONE	0.6	0.7	0.7	0.7	0.7	0.6
MINING, MCLENNAN	1.2	1.0	1.0	1.1	1.0	1.0
MINING, MILAM	1.0	1.0	1.0	1.0	1.0	1.0
MINING, NOLAN	1.0	1.0	1.2	1.3	1.5	1.6
MINING, PALO PINTO	1.9	1.5	1.9	2.5	3.5	5.0
MINING, ROBERTSON	1.0	0.9	0.8	0.7	0.6	0.5
MINING, SHACKELFORD	1.3	1.0	1.4	1.7	2.3	3.0
MINING, SOMERVELL	1.2	1.0	1.2	1.3	1.3	1.4
MINING, STEPHENS	0.2	0.2	0.3	0.3	0.4	0.4
MINING, STONEWALL	1.0	1.0	1.2	1.4	1.6	1.8
MINING, TAYLOR	1.0	1.0	1.0	1.0	1.0	1.0
MINING, THROCKMORTON	1.1	1.1	1.2	1.4	1.6	1.8
MINING, WASHINGTON	1.0	1.0	1.0	1.0	1.0	1.0
MINING, WILLIAMSON	0.1	0.1	0.1	0.1	0.1	0.1
MINING, YOUNG	1.5	1.0	1.4	1.8	2.5	3.6
MOFFAT WSC	2.8	2.7	2.7	2.5	2.4	2.3
MOODY	3.2	3.1	3.0	2.8	2.6	2.5
MORGAN'S POINT RESORT	3.3	2.8	2.5	2.2	1.9	1.7
MULTI-COUNTY WSC	1.0	1.8	1.4	1.3	1.2	1.1
MUNDAY	1.1	1.2	1.2	1.2	1.2	1.1
NAVASOTA	1.5	1.6	1.6	1.6	1.5	1.5
NEWCASTLE	1.0	1.0	1.0	1.0	1.0	1.0
NOLANVILLE	1.0	1.0	1.0	1.0	1.0	1.0

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
NORTH BOSQUE WSC	1.0	1.2	1.1	1.1	1.1	1.0
OAK TRAIL SHORES SUBDIVISION	1.6	1.6	1.7	1.7	1.7	1.6
PARKER WSC	1.7	1.4	1.2	1.0	1.1	1.0
PENDLETON WSC	2.0	2.0	1.9	1.8	1.7	1.6
POSSUM KINGDOM WSC	1.0	1.0	1.1	1.1	1.2	1.2
POTOSI WSC	1.0	1.0	1.0	1.0	1.0	1.0
RANGER	4.4	4.5	4.6	4.6	4.6	4.6
RIESEL	1.1	1.1	1.1	1.1	1.0	1.0
RIO VISTA	1.7	1.4	1.2	1.0	5.1	4.5
RISING STAR	1.0	1.0	1.1	1.1	1.1	1.1
ROBERTSON COUNTY WSC	2.1	2.0	1.9	1.8	1.7	1.6
ROBINSON	1.1	1.8	1.6	1.5	1.3	1.2
ROBY	3.2	3.4	3.4	3.5	3.5	3.5
ROCKDALE	1.8	1.7	1.3	1.4	1.4	1.4
ROGERS	3.5	3.4	3.3	3.2	3.0	2.8
ROSCOE	1.4	1.4	1.4	1.3	1.3	1.3
ROSEBUD	3.5	3.4	3.5	3.6	3.5	3.4
ROTAN	1.0	1.0	1.0	1.0	1.0	1.0
ROUND ROCK	2.0	1.6	1.3	1.1	1.0	1.0
RULE	1.9	2.0	1.9	1.9	1.9	1.9
SALADO WSC	1.4	1.3	1.3	1.3	1.3	1.3
SNOOK	2.6	2.6	2.6	2.6	2.6	2.6
SOMERVILLE	3.4	3.3	3.2	3.1	3.0	2.9
SOUTHWEST MILAM WSC	1.6	1.4	1.1	1.2	1.1	1.0
STAMFORD	1.5	1.5	1.5	1.6	1.6	1.6
STEAM ELECTRIC POWER, BELL	2.0	1.7	1.4	1.2	1.0	1.0
STEAM ELECTRIC POWER, BOSQUE	1.1	1.0	1.0	1.0	1.0	1.0
STEAM ELECTRIC POWER, BRAZOS	1.0	1.0	1.0	1.0	1.0	1.0
STEAM ELECTRIC POWER, GRIMES	1.0	1.0	1.0	1.0	1.0	1.0
STEAM ELECTRIC POWER, HASKELL	3.9	5.2	4.5	3.9	3.3	3.0
STEAM ELECTRIC POWER, HOOD	2.8	2.4	2.1	1.7	1.4	1.0
STEAM ELECTRIC POWER, JOHNSON	1.2	1.2	1.2	1.2	1.2	1.2
STEAM ELECTRIC POWER, JONES	1.0	1.0	1.0	1.0	1.0	1.0
STEAM ELECTRIC POWER, LIMESTONE	1.0	1.0	1.0	1.0	1.0	1.0
STEAM ELECTRIC POWER, MCLENNAN	4.3	3.0	2.4	1.6	1.0	1.0
STEAM ELECTRIC POWER, MILAM	1.0	1.0	1.1	1.0	1.0	1.0
STEAM ELECTRIC POWER, NOLAN	1.0	1.1	1.1	1.0	1.0	1.0
STEAM ELECTRIC POWER, PALO PINTO	3.5	3.4	3.3	3.2	3.1	3.0
STEAM ELECTRIC POWER, ROBERTSON	1.9	1.1	1.0	1.0	1.0	1.0
STEAM ELECTRIC POWER, SOMERVELL	1.8	1.8	1.8	1.8	1.8	1.8
STEAM ELECTRIC POWER, YOUNG	8.2	7.0	6.0	5.1	4.3	3.8
STEAMBOAT MOUNTAIN WSC	1.0	1.0	1.0	1.0	1.0	1.0
STEPHENS REGIONAL SUD	2.9	2.9	3.0	3.0	3.0	3.0
STEPHENVILLE	2.3	2.1	2.0	1.9	1.7	1.6
STRAWN	1.2	1.2	1.2	1.2	1.2	1.1
SWEETWATER	1.0	1.0	1.0	1.0	1.0	1.0
TAYLOR	1.0	1.0	1.0	1.0	1.0	1.0
TEMPLE	1.6	1.4	1.3	1.3	1.2	1.2
TEXAS A & M UNIVERSITY	1.7	2.2	2.3	2.3	2.4	2.4
THORNDALE	1.2	1.2	1.2	1.2	1.1	1.1

Water User Group (WUG) Management Supply Factor

REGION G	WUG MANAGEMENT SUPPLY FACTOR					
	2020	2030	2040	2050	2060	2070
THORNTON	3.9	4.0	4.1	4.2	4.2	4.2
THRALL	1.0	1.0	1.0	1.0	1.0	1.0
THROCKMORTON	9.1	9.3	9.6	9.6	9.7	9.7
TOLAR	1.4	1.2	1.1	1.1	1.0	1.0
TRI-COUNTY SUD	1.2	1.2	1.2	1.2	1.1	1.1
TROY	7.0	6.6	6.1	5.6	5.2	4.8
TUSCOLA	1.0	1.0	1.0	1.0	1.0	1.0
TYE	1.0	1.0	1.0	1.0	1.0	1.0
VALLEY MILLS	1.9	1.8	1.8	1.8	1.8	1.7
VENUS	1.0	1.1	1.1	1.1	1.1	1.1
WACO	1.7	1.6	1.6	1.6	1.5	1.5
WALNUT SPRINGS	2.7	2.6	2.5	2.5	2.5	2.4
WELLBORN SUD	1.2	1.2	1.9	1.6	1.3	1.1
WEST	2.9	2.9	2.8	2.7	2.7	2.6
WEST BELL COUNTY WSC	2.1	2.0	2.1	2.1	2.1	2.1
WEST BRAZOS WSC	1.1	1.1	1.1	1.1	1.0	1.0
WESTERN HILLS WS	2.6	2.4	2.3	2.2	2.1	2.0
WHITE BLUFF COMMUNITY WS	1.4	1.4	1.5	1.5	1.4	1.4
WHITNEY	1.4	1.4	1.5	1.4	1.4	1.3
WICKSON CREEK SUD	2.5	2.2	1.9	1.6	1.3	1.1
WILLIAMSON COUNTY MUD #10	1.0	1.0	1.0	1.0	1.0	1.0
WILLIAMSON COUNTY MUD #11	1.0	1.0	1.0	1.0	1.0	1.0
WILLIAMSON COUNTY MUD #9	1.0	1.0	1.0	1.0	1.0	1.0
WILLIAMSON-TRAVIS COUNTY MUD #1	1.3	1.4	1.4	1.4	1.4	1.4
WOODROW-OSCEOLA WSC	1.6	1.6	1.6	1.5	1.5	1.4
WOODWAY	1.1	1.1	1.2	1.3	1.4	1.4

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. To calculate the Management Supply Factor for each WUG as a whole, not split by region-county-basin the combined total of existing and future supply is divided by the total projected demand.

Appendix M
Water Availability Model Files

[The information contained for this appendix has been submitted to TWDB in electronic format and can be found on the TWDB website and at www.brazosgwater.org.]

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Appendix N
Implementation of the 2011 Brazos G Regional Water Plan

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