

Estimated Historical Water Use And 2017 State Water Plan Datasets: Post Oak Savannah Groundwater Conservation District

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GROUNDWATER MANAGEMENT PLAN DATA:

This package of water data reports (part 1 of a 2-part package of information) is being provided to groundwater conservation districts to help them meet the requirements for approval of their five-year groundwater management plan. Each report in the package addresses a specific numbered requirement in the Texas Water Development Board's groundwater management plan checklist. The checklist can be viewed and downloaded from this web address:

<http://www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf>

The five reports included in this part are:

1. Estimated Historical Water Use (checklist item 2)
from the TWDB Historical Water Use Survey (WUS)
2. Projected Surface Water Supplies (checklist item 6)
3. Projected Water Demands (checklist item 7)
4. Projected Water Supply Needs (checklist item 8)
5. Projected Water Management Strategies (checklist item 9)
from the 2017 Texas State Water Plan (SWP)

Part 2 of the 2-part package is the groundwater availability model (GAM) report for the District (checklist items 3 through 5). The District should have received, or will receive, this report from the Groundwater Availability Modeling Section. Questions about the GAM can be directed to Dr. Shirley Wade, shirley.wade@twdb.texas.gov, (512) 936-0883.

DISCLAIMER:

The data presented in this report represents the most up-to-date WUS and 2017 SWP data available as of 9/15/2017. Although it does not happen frequently, either of these datasets are subject to change pending the availability of more accurate WUS data or an amendment to the 2017 SWP. District personnel must review these datasets and correct any discrepancies in order to ensure approval of their groundwater management plan.

The WUS dataset can be verified at this web address:

<http://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates/>

The 2017 SWP dataset can be verified by contacting Sabrina Anderson (sabrina.anderson@twdb.texas.gov or 512-936-0886).

For additional questions regarding this data, please contact Stephen Allen (stephen.allen@twdb.texas.gov or 512-463-7317).

Estimated Historical Water Use

TWDB Historical Water Use Survey (WUS) Data

Groundwater and surface water historical use estimates are currently unavailable for calendar year 2016. TWDB staff anticipates the calculation and posting of these estimates at a later date.

BURLESON COUNTY

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2015	GW	2,722	111	2,018	0	8,311	332	13,494
	SW	0	0	224	0	4,351	775	5,350
2014	GW	2,754	111	1,351	0	16,476	319	21,011
	SW	0	0	150	0	2,640	745	3,535
2013	GW	2,935	111	127	0	23,875	304	27,352
	SW	0	0	14	0	3,518	710	4,242
2012	GW	3,299	111	24	0	26,456	320	30,210
	SW	0	0	2	0	4,363	746	5,111
2011	GW	3,549	111	248	0	22,182	579	26,669
	SW	0	0	15	0	7,413	1,350	8,778
2010	GW	2,974	117	17	0	18,749	563	22,420
	SW	0	0	1	0	8,350	1,314	9,665
2009	GW	2,978	117	42	0	22,893	356	26,386
	SW	0	0	2	0	4,695	830	5,527
2008	GW	2,763	117	66	0	15,567	392	18,905
	SW	0	0	4	0	6,868	914	7,786
2007	GW	2,550	117	0	0	5,758	489	8,914
	SW	0	0	0	0	15,313	1,141	16,454
2006	GW	2,877	117	0	0	22,065	505	25,564
	SW	0	0	0	0	2,435	1,178	3,613
2005	GW	2,791	117	0	0	17,060	520	20,488
	SW	0	0	0	0	6,612	1,215	7,827
2004	GW	2,519	117	0	0	20,665	589	23,890
	SW	0	0	0	0	6,106	885	6,991
2003	GW	2,561	172	0	0	15,308	613	18,654
	SW	0	0	0	0	2,860	921	3,781
2002	GW	2,657	147	0	0	9,591	551	12,946
	SW	0	0	0	0	2,250	826	3,076
2001	GW	2,592	144	0	0	8,705	536	11,977
	SW	0	0	0	0	2,042	804	2,846
2000	GW	2,716	150	0	0	14,845	569	18,280
	SW	0	0	0	0	3,394	853	4,247

MILAM COUNTY

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2015	GW	2,866	0	2	8,968	4,981	766	17,583
	SW	1,356	0	0	12,105	284	1,788	15,533
2014	GW	3,103	0	25	11,747	5,883	745	21,503
	SW	1,327	0	3	12,962	522	1,739	16,553
2013	GW	3,307	0	139	9,800	6,085	746	20,077
	SW	1,340	0	3	17,712	615	1,740	21,410
2012	GW	6,982	0	259	0	8,844	826	16,911
	SW	7,872	12	2	19,273	446	1,928	29,533
2011	GW	4,228	0	32	13,716	5,273	912	24,161
	SW	1,729	12	2	13,034	1,350	2,127	18,254
2010	GW	3,698	0	15	12,653	1,920	912	19,198
	SW	1,450	12	1	19,601	1,574	2,128	24,766
2009	GW	3,536	11,206	0	0	2,613	552	17,907
	SW	1,470	8,903	0	0	2,155	1,287	13,815
2008	GW	2,890	11,171	0	0	3,099	538	17,698
	SW	1,557	8,876	0	0	1,782	1,257	13,472
2007	GW	2,603	24,678	0	0	4,210	509	32,000
	SW	1,365	4,482	0	0	3	1,188	7,038
2006	GW	3,298	30,116	0	0	5,655	564	39,633
	SW	1,601	12,568	0	0	492	1,315	15,976
2005	GW	3,268	34,762	0	0	4,752	570	43,352
	SW	1,400	11,177	0	0	860	1,329	14,766
2004	GW	2,399	36,435	0	0	3,589	755	43,178
	SW	1,338	11,607	0	0	1,672	1,132	15,749
2003	GW	3,073	36,329	0	0	4,469	756	44,627
	SW	1,655	15,166	0	0	756	1,134	18,711
2002	GW	2,912	35,496	0	0	900	743	40,051
	SW	1,655	12,861	0	0	1,827	1,114	17,457
2001	GW	2,924	31,903	0	0	787	719	36,333
	SW	1,816	12,625	0	0	1,597	1,078	17,116
2000	GW	3,164	31,968	0	0	779	712	36,623
	SW	1,916	14,447	0	0	1,613	1,068	19,044

Projected Surface Water Supplies

TWDB 2017 State Water Plan Data

BURLESON COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
G	LIVESTOCK, BURLESON	BRAZOS	BRAZOS LIVESTOCK LOCAL SUPPLY	1,508	1,508	1,508	1,508	1,508	1,508
Sum of Projected Surface Water Supplies (acre-feet)				1,508	1,508	1,508	1,508	1,508	1,508

MILAM COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
G	BELL-MILAM FALLS WSC	BRAZOS	BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	352	349	343	342	336	329
G	BUCKHOLTS	BRAZOS	BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	122	122	122	122	122	122
G	CAMERON	BRAZOS	BRAZOS RUN-OF-RIVER	2,615	2,615	2,615	2,615	2,615	2,615
G	COUNTY-OTHER, MILAM	BRAZOS	BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	793	793	793	793	793	793
G	COUNTY-OTHER, MILAM	BRAZOS	BRAZOS RUN-OF-RIVER	163	163	163	163	163	163
G	IRRIGATION, MILAM	BRAZOS	BRAZOS RUN-OF-RIVER	42	42	42	42	42	42
G	LIVESTOCK, MILAM	BRAZOS	BRAZOS LIVESTOCK LOCAL SUPPLY	1,822	1,822	1,822	1,822	1,822	1,822
G	MANUFACTURING, MILAM	BRAZOS	BRAZOS RUN-OF-RIVER	14	14	14	14	14	14
G	STEAM ELECTRIC POWER, MILAM	BRAZOS	ALCOA LAKE/RESERVOIR	14,000	14,000	14,000	14,000	14,000	14,000
G	STEAM ELECTRIC POWER, MILAM	BRAZOS	BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,683	4,329	4,352	4,673	4,609	4,508
G	STEAM ELECTRIC POWER, MILAM	BRAZOS	BRAZOS RUN-OF-RIVER	650	650	650	650	650	650
Sum of Projected Surface Water Supplies (acre-feet)				23,256	24,899	24,916	25,236	25,166	25,058

Projected Water Demands

TWDB 2017 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

BURLESON COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
G	CALDWELL	BRAZOS	1,027	1,043	1,073	1,073	1,091	1,108
G	COUNTY-OTHER, BURLESON	BRAZOS	615	673	703	771	809	841
G	DEANVILLE WSC	BRAZOS	465	471	490	487	493	499
G	IRRIGATION, BURLESON	BRAZOS	22,855	21,904	21,057	20,115	19,216	18,469
G	LIVESTOCK, BURLESON	BRAZOS	1,508	1,508	1,508	1,508	1,508	1,508
G	MANUFACTURING, BURLESON	BRAZOS	139	161	183	203	221	241
G	MILANO WSC	BRAZOS	212	220	224	231	237	243
G	MINING, BURLESON	BRAZOS	995	1,923	1,512	1,100	686	428
G	SNOOK	BRAZOS	184	195	201	209	216	221
G	SOMERVILLE	BRAZOS	266	277	285	296	305	313
G	SOUTHWEST MILAM WSC	BRAZOS	129	135	138	143	147	151
Sum of Projected Water Demands (acre-feet)			28,395	28,510	27,374	26,136	24,929	24,022

MILAM COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
G	BELL-MILAM FALLS WSC	BRAZOS	255	264	269	279	290	300
G	BUCKHOLTS	BRAZOS	68	70	71	73	76	79
G	CAMERON	BRAZOS	1,359	1,409	1,441	1,500	1,556	1,612
G	COUNTY-OTHER, MILAM	BRAZOS	300	313	324	339	351	364
G	IRRIGATION, MILAM	BRAZOS	5,081	5,040	4,995	4,956	4,915	4,875
G	LIVESTOCK, MILAM	BRAZOS	1,822	1,822	1,822	1,822	1,822	1,822
G	MANUFACTURING, MILAM	BRAZOS	12	12	12	14	14	14
G	MILANO WSC	BRAZOS	220	225	228	236	244	253
G	MINING, MILAM	BRAZOS	14	14	14	14	14	14
G	ROCKDALE	BRAZOS	1,159	1,198	1,222	1,269	1,317	1,364
G	SOUTHWEST MILAM WSC	BRAZOS	1,021	1,055	1,078	1,121	1,163	1,204
G	STEAM ELECTRIC POWER, MILAM	BRAZOS	32,023	32,023	32,023	40,989	40,989	40,989
G	THORNDAL	BRAZOS	184	188	190	197	204	211
Sum of Projected Water Demands (acre-feet)			43,518	43,633	43,689	52,809	52,955	53,101

Projected Water Supply Needs

TWDB 2017 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

BURLESON COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
G	CALDWELL	BRAZOS	1,325	1,309	1,279	1,279	1,261	1,244
G	COUNTY-OTHER, BURLESON	BRAZOS	258	200	170	102	64	32
G	DEANVILLE WSC	BRAZOS	236	230	211	214	208	202
G	IRRIGATION, BURLESON	BRAZOS	107	1,058	1,905	2,847	3,746	4,493
G	LIVESTOCK, BURLESON	BRAZOS	0	0	0	0	0	0
G	MANUFACTURING, BURLESON	BRAZOS	0	-22	-44	-64	-82	-102
G	MILANO WSC	BRAZOS	38	14	8	1	4	2
G	MINING, BURLESON	BRAZOS	-995	-1,923	-1,512	-1,100	-686	-428
G	SNOOK	BRAZOS	291	280	274	266	259	254
G	SOMERVILLE	BRAZOS	625	614	606	595	586	578
G	SOUTHWEST MILAM WSC	BRAZOS	76	49	16	24	20	7
Sum of Projected Water Supply Needs (acre-feet)			-995	-1,945	-1,556	-1,164	-768	-530

MILAM COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
G	BELL-MILAM FALLS WSC	BRAZOS	528	513	494	482	458	432
G	BUCKHOLTS	BRAZOS	176	174	173	171	168	165
G	CAMERON	BRAZOS	1,256	1,206	1,174	1,115	1,059	1,003
G	COUNTY-OTHER, MILAM	BRAZOS	656	643	632	617	605	592
G	IRRIGATION, MILAM	BRAZOS	317	206	13	267	400	440
G	LIVESTOCK, MILAM	BRAZOS	0	0	0	0	0	0
G	MANUFACTURING, MILAM	BRAZOS	2	2	2	0	0	0
G	MILANO WSC	BRAZOS	40	15	9	1	5	2
G	MINING, MILAM	BRAZOS	0	0	0	0	0	0
G	ROCKDALE	BRAZOS	841	662	174	320	355	308
G	SOUTHWEST MILAM WSC	BRAZOS	604	388	124	186	151	57
G	STEAM ELECTRIC POWER, MILAM	BRAZOS	1,096	-35	-78	-7,222	-6,646	-6,757
G	THORNDAL	BRAZOS	45	41	39	32	25	18
Sum of Projected Water Supply Needs (acre-feet)			0	-35	-78	-7,222	-6,646	-6,757

Projected Water Management Strategies

TWDB 2017 State Water Plan Data

BURLESON COUNTY

WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
CALDWELL, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (SUBURBAN) - CALDWELL	DEMAND REDUCTION [BURLESON]	40	121	203	240	242	246
		40	121	203	240	242	246
MANUFACTURING, BURLESON, BRAZOS (G)							
INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION [BURLESON]	4	8	13	14	15	17
SPARTA AQUIFER DEVELOPMENT	SPARTA AQUIFER [BURLESON]	0	50	50	50	85	85
		4	58	63	64	100	102
MINING, BURLESON, BRAZOS (G)							
INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION [BURLESON]	30	96	106	77	48	30
SPARTA AQUIFER DEVELOPMENT	SPARTA AQUIFER [BURLESON]	740	740	740	740	740	740
		770	836	846	817	788	770
SNOOK, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (RURAL) - SNOOK	DEMAND REDUCTION [BURLESON]	11	26	42	59	76	91
		11	26	42	59	76	91
SOMERVILLE, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (SUBURBAN) - SOMERVILLE	DEMAND REDUCTION [BURLESON]	8	26	23	23	23	24
		8	26	23	23	23	24
SOUTHWEST MILAM WSC, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (RURAL) - SOUTHWEST MILAM WSC	DEMAND REDUCTION [BURLESON]	3	0	0	0	0	0
		3	0	0	0	0	0
Sum of Projected Water Management Strategies (acre-feet)		836	1,067	1,177	1,203	1,229	1,233

MILAM COUNTY

WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
CAMERON, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (RURAL) - CAMERON	DEMAND REDUCTION [MILAM]	58	163	269	389	448	464

Estimated Historical Water Use and 2017 State Water Plan Dataset:

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		58	163	269	389	448	464
ROCKDALE, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (RURAL) - ROCKDALE	DEMAND REDUCTION [MILAM]	43	128	198	195	200	207
		43	128	198	195	200	207
SOUTHWEST MILAM WSC, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION (RURAL) - SOUTHWEST MILAM WSC	DEMAND REDUCTION [MILAM]	22	1	0	0	0	0
		22	1	0	0	0	0
STEAM ELECTRIC POWER, MILAM, BRAZOS (G)							
INDUSTRIAL WATER CONSERVATION	DEMAND REDUCTION [MILAM]	0	1,601	2,869	2,869	2,869	2,869
LITTLE RIVER OCR	LITTLE RIVER OFF- CHANNEL LAKE/RESERVOIR [RESERVOIR]	0	0	0	4,353	4,000	4,000
		0	1,601	2,869	7,222	6,869	6,869
Sum of Projected Water Management Strategies (acre-feet)		123	1,893	3,336	7,806	7,517	7,540