

# Estimated Historical Water Use And 2022 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 2022 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 2022 SWP data available as of 5/23/2022. 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 2022 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 2022 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 2020. 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
2019	GW	2,795	8	3,718	0	14,169	317	21,007
	SW	0	0	413	0	531	741	1,685
2018	GW	2,777	21	5,203	0	21,705	317	30,023
	SW	0	0	578	0	728	740	2,046
2017	GW	2,650	35	3,852	0	20,860	308	27,705
	SW	0	0	428	0	604	718	1,750
2016	GW	2,546	111	620	0	15,086	336	18,699
	SW	0	0	69	0	816	784	1,669
2015	GW	2,722	111	2,018	0	8,311	330	13,492
	SW	0	0	224	0	4,351	769	5,344
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	128	0	23,875	304	27,353
	SW	0	0	14	0	3,518	710	4,242
2012	GW	3,299	111	10	0	26,456	320	30,196
	SW	0	0	1	0	4,363	746	5,110
2011	GW	3,549	111	8	0	22,182	579	26,429
	SW	0	0	1	0	7,413	1,350	8,764
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	1,683
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

**MILAM COUNTY**

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2019	GW	3,402	0	861	0	4,525	501	9,289
	SW	5,144	0	96	0	520	1,170	6,930
2018	GW	4,543	0	108	0	5,010	500	10,161
	SW	3,225	0	12	421	358	1,167	5,183
2017	GW	4,663	0	103	841	5,208	484	11,299
	SW	4,390	0	11	13,183	308	1,130	19,022
2016	GW	3,040	0	20	6,418	4,281	402	14,161
	SW	1,301	0	2	14,653	133	938	17,027
2015	GW	2,866	0	2	8,968	4,981	398	17,215
	SW	1,356	0	0	12,105	284	928	14,673
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	140	9,800	6,085	746	20,078
	SW	1,340	0	4	17,712	615	1,740	21,411
2012	GW	6,982	0	121	0	8,844	826	16,773
	SW	7,872	12	1	19,273	446	1,928	29,532
2011	GW	4,228	0	13	13,716	5,273	912	24,142
	SW	1,729	12	1	13,034	1,350	2,127	18,253
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	1,879
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

# Projected Surface Water Supplies

## TWDB 2022 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	1,390	1,390	1,390	1,390	1,390	1,390
<b>Sum of Projected Surface Water Supplies (acre-feet)</b>				<b>1,390</b>	<b>1,390</b>	<b>1,390</b>	<b>1,390</b>	<b>1,390</b>	<b>1,390</b>

### 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	674	662	651	650	637	624
G	Cameron	Brazos	Brazos Run-of-River	2,615	2,615	2,615	2,615	2,615	2,615
G	Irrigation, Milam	Brazos	Brazos Run-of-River	42	42	42	42	42	42
G	Livestock, Milam	Brazos	Brazos Livestock Local Supply	2,761	2,761	2,761	2,761	2,761	2,761
G	Manufacturing, Milam	Brazos	Brazos Run-of-River	14	14	14	14	14	14
G	North Milam WSC	Brazos	Brazos Run-of-River	38	38	38	38	38	37
G	Salem Elm Ridge WSC	Brazos	Brazos River Authority Little River Lake/Reservoir System	297	297	297	297	297	297
G	Salem Elm Ridge WSC	Brazos	Brazos Run-of-River	125	125	125	125	125	125
<b>Sum of Projected Surface Water Supplies (acre-feet)</b>				<b>6,566</b>	<b>6,554</b>	<b>6,543</b>	<b>6,542</b>	<b>6,529</b>	<b>6,515</b>

# Projected Water Demands

## TWDB 2022 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

WUG	RWPG	WUG Basin	2020	2030	2040	2050	2060	2070
G	Caldwell	Brazos	1,027	1,043	1,072	1,072	1,091	1,108
G	County-Other, Burleson	Brazos	633	684	705	759	783	798
G	Deanville WSC	Brazos	411	416	433	430	436	441
G	Irrigation, Burleson	Brazos	26,804	26,804	26,804	26,804	26,804	26,804
G	Livestock, Burleson	Brazos	1,390	1,390	1,390	1,390	1,390	1,390
G	Manufacturing, Burleson	Brazos	117	117	117	117	117	117
G	Milano WSC	Brazos	201	209	213	219	225	231
G	Mining, Burleson	Brazos	995	1,923	1,512	1,100	686	428
G	Snook	Brazos	288	305	314	327	337	345
G	Somerville	Brazos	273	292	315	346	378	412
G	Southwest Milam WSC	Brazos	126	132	135	140	144	148
<b>Sum of Projected Water Demands (acre-feet)</b>			<b>32,265</b>	<b>33,315</b>	<b>33,010</b>	<b>32,704</b>	<b>32,391</b>	<b>32,222</b>

### MILAM COUNTY

All values are in acre-feet

WUG	RWPG	WUG Basin	2020	2030	2040	2050	2060	2070
G	Bell Milam Falls WSC	Brazos	225	232	237	246	255	264
G	Cameron	Brazos	1,363	1,413	1,446	1,504	1,561	1,617
G	County-Other, Milam	Brazos	129	134	139	146	151	156
G	Irrigation, Milam	Brazos	6,502	6,502	6,502	6,502	6,502	6,502
G	Livestock, Milam	Brazos	2,761	2,761	2,761	2,761	2,761	2,761
G	Manufacturing, Milam	Brazos	12	13	13	13	13	13
G	Milano WSC	Brazos	209	214	216	224	232	240
G	Mining, Milam	Brazos	14	14	14	14	14	14
G	North Milam WSC	Brazos	249	257	263	273	283	293
G	Rockdale	Brazos	1,173	1,213	1,237	1,285	1,333	1,380
G	Salem Elm Ridge WSC	Brazos	131	135	137	142	148	153
G	Southwest Milam WSC	Brazos	1,002	1,036	1,058	1,100	1,141	1,181
G	Steam-Electric Power, Milam	Brazos	32,254	32,254	32,254	32,254	32,254	32,254
G	Thorndale	Brazos	183	188	190	196	203	211
<b>Sum of Projected Water Demands (acre-feet)</b>			<b>46,207</b>	<b>46,366</b>	<b>46,467</b>	<b>46,660</b>	<b>46,851</b>	<b>47,039</b>

# Projected Water Supply Needs

## TWDB 2022 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	1,249	1,233	1,204	1,204	1,185	1,168
G	County-Other, Burleson	Brazos	167	116	95	41	17	2
G	Deanville WSC	Brazos	248	243	226	229	223	218
G	Irrigation, Burleson	Brazos	-347	-347	-347	-347	-347	-347
G	Livestock, Burleson	Brazos	0	0	0	0	0	0
G	Manufacturing, Burleson	Brazos	-6	-6	-6	-6	-6	-6
G	Milano WSC	Brazos	54	8	18	11	14	12
G	Mining, Burleson	Brazos	1,023	95	506	918	1,332	1,590
G	Snook	Brazos	206	189	180	167	157	149
G	Somerville	Brazos	618	599	576	545	513	479
G	Southwest Milam WSC	Brazos	14	-19	-34	-32	-30	-40
<b>Sum of Projected Water Supply Needs (acre-feet)</b>			<b>-353</b>	<b>-372</b>	<b>-387</b>	<b>-385</b>	<b>-383</b>	<b>-393</b>

### MILAM COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
G	Bell Milam Falls WSC	Brazos	551	530	512	502	478	454
G	Cameron	Brazos	1,252	1,202	1,169	1,111	1,054	998
G	County-Other, Milam	Brazos	31	26	21	14	9	4
G	Irrigation, Milam	Brazos	239	-104	-205	4	93	93
G	Livestock, Milam	Brazos	0	0	0	0	0	0
G	Manufacturing, Milam	Brazos	2	1	1	1	1	1
G	Milano WSC	Brazos	56	9	19	11	15	13
G	Mining, Milam	Brazos	62	50	47	54	57	57
G	North Milam WSC	Brazos	212	139	113	143	150	138
G	Rockdale	Brazos	-79	-289	-613	-558	-562	-609
G	Salem Elm Ridge WSC	Brazos	291	287	285	280	274	269
G	Southwest Milam WSC	Brazos	116	-148	-263	-250	-268	-342
G	Steam-Electric Power, Milam	Brazos	-32,254	-32,254	-32,254	-32,254	-32,254	-32,254
G	Thorndale	Brazos	19	14	12	5	-2	-10
<b>Sum of Projected Water Supply Needs (acre-feet)</b>			<b>-32,333</b>	<b>-32,795</b>	<b>-33,335</b>	<b>-33,062</b>	<b>-33,086</b>	<b>-33,215</b>

# Projected Water Management Strategies

## TWDB 2022 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
<b>Caldwell, Brazos (G)</b>							
Municipal Water Conservation - Caldwell	DEMAND REDUCTION [Burleson]	0	83	167	239	242	246
		<b>0</b>	<b>83</b>	<b>167</b>	<b>239</b>	<b>242</b>	<b>246</b>
<b>Irrigation, Burleson, Brazos (G)</b>							
Irrigation Water Conservation	DEMAND REDUCTION [Burleson]	804	1,340	1,876	1,876	1,876	1,876
		<b>804</b>	<b>1,340</b>	<b>1,876</b>	<b>1,876</b>	<b>1,876</b>	<b>1,876</b>
<b>Manufacturing, Burleson, Brazos (G)</b>							
Industrial Water Conservation	DEMAND REDUCTION [Burleson]	4	6	8	8	8	8
Sparta Aquifer Development	Sparta Aquifer [Burleson]	25	25	25	25	25	25
		<b>29</b>	<b>31</b>	<b>33</b>	<b>33</b>	<b>33</b>	<b>33</b>
<b>Snook, Brazos (G)</b>							
Municipal Water Conservation - Snook	DEMAND REDUCTION [Burleson]	0	25	50	78	104	129
		<b>0</b>	<b>25</b>	<b>50</b>	<b>78</b>	<b>104</b>	<b>129</b>
<b>Somerville, Brazos (G)</b>							
Municipal Water Conservation - Somerville	DEMAND REDUCTION [Burleson]	0	20	25	27	29	31
		<b>0</b>	<b>20</b>	<b>25</b>	<b>27</b>	<b>29</b>	<b>31</b>
<b>Southwest Milam WSC, Brazos (G)</b>							
Carrizo Aquifer Development - Southwest Milam WSC	Carrizo-Wilcox Aquifer [Lee]	0	19	34	32	30	40
		<b>0</b>	<b>19</b>	<b>34</b>	<b>32</b>	<b>30</b>	<b>40</b>
<b>Sum of Projected Water Management Strategies (acre-feet)</b>		<b>833</b>	<b>1,518</b>	<b>2,185</b>	<b>2,285</b>	<b>2,314</b>	<b>2,355</b>

### MILAM COUNTY

#### WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
<b>Cameron, Brazos (G)</b>							
City of Cameron Little River Intake	Brazos Run-of-River [Milam]	0	2,615	2,615	2,615	2,615	2,615
Municipal Water Conservation - Cameron	DEMAND REDUCTION [Milam]	0	107	218	339	449	465
		<b>0</b>	<b>2,722</b>	<b>2,833</b>	<b>2,954</b>	<b>3,064</b>	<b>3,080</b>
<b>Irrigation, Milam, Brazos (G)</b>							

*Estimated Historical Water Use and 2022 State Water Plan Dataset:*

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Irrigation Water Conservation	DEMAND REDUCTION [Milam]	195	325	455	455	455	455
		<b>195</b>	<b>325</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>455</b>
<b>Manufacturing, Milam, Brazos (G)</b>							
City of Cameron Little River Intake	Brazos Run-of-River [Milam]	0	14	14	14	14	14
		<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>North Milam WSC, Brazos (G)</b>							
City of Cameron Little River Intake	Brazos Run-of-River [Milam]	0	38	38	38	38	37
Municipal Water Conservation - North Milam WSC	DEMAND REDUCTION [Milam]	0	18	19	18	18	18
		<b>0</b>	<b>56</b>	<b>57</b>	<b>56</b>	<b>56</b>	<b>55</b>
<b>Rockdale, Brazos (G)</b>							
Carrizo Aquifer Development - Rockdale	Carrizo-Wilcox Aquifer [Lee]	79	200	433	360	360	400
Municipal Water Conservation - Rockdale	DEMAND REDUCTION [Milam]	0	89	180	198	202	209
		<b>79</b>	<b>289</b>	<b>613</b>	<b>558</b>	<b>562</b>	<b>609</b>
<b>Salem Elm Ridge WSC, Brazos (G)</b>							
City of Cameron Little River Intake	Brazos Run-of-River [Milam]	0	125	125	125	125	125
		<b>0</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>
<b>Southwest Milam WSC, Brazos (G)</b>							
Carrizo Aquifer Development - Southwest Milam WSC	Carrizo-Wilcox Aquifer [Lee]	0	148	263	250	268	342
		<b>0</b>	<b>148</b>	<b>263</b>	<b>250</b>	<b>268</b>	<b>342</b>
<b>Thorndale, Brazos (G)</b>							
Lake Granger ASR	Trinity Aquifer ASR [Williamson]	0	0	0	0	2	10
		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>10</b>
<b>Sum of Projected Water Management Strategies (acre-feet)</b>		<b>274</b>	<b>3,679</b>	<b>4,360</b>	<b>4,412</b>	<b>4,546</b>	<b>4,690</b>