

# Projected Exempt Groundwater Use Estimates

Groundwater Management Area 15

TWDB Estimates

May 2020

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Texas Water Development (TWDB) staff has developed draft projected estimates of rural domestic, livestock, mining, and rig supply exempt uses. These estimates are based on a comprehensive survey of groundwater wells in the TWDB Groundwater Database (GWDB), the TWDB Water Use Survey, the 2017 State Water Plan (SWP), the newest projected demand estimates for the upcoming 2021 SWP,, and population data from the Texas Demographic Center.

Note: Some categories of these estimates may not represent actual use from exempt wells since the GWDB does not include all wells in existence.

**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Bee GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	2,325	2,333	2,312	2,298	2,295	2,295	2,295
Other	7	7	7	7	7	7	7
<b>Total</b>	<b>2,332</b>	<b>2,340</b>	<b>2,319</b>	<b>2,305</b>	<b>2,302</b>	<b>2,302</b>	<b>2,302</b>

Estimated Domestic Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,664	1,672	1,651	1,637	1,634	1,634	1,634

Estimated Livestock Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	661	661	661	661	661	661	661
Other	7	7	7	7	7	7	7

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.dis

Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Calhoun County GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	177	182	187	193	199	205	206
<b>Total</b>	<b>177</b>	<b>182</b>	<b>187</b>	<b>193</b>	<b>199</b>	<b>205</b>	<b>206</b>

**Estimated Domestic Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	63	68	73	79	85	91	92

**Estimated Livestock Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	114	114	114	114	114	114	114

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.dis

Values are rounded to the nearest acre-foot.

## Projected Exempt Groundwater Use Estimates Acre-feet per year

### Coastal Bend GCD

#### Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	3,967	4,067	4,149	4,246	4,335	4,420	4,429
	<b>3,967</b>	<b>4,067</b>	<b>4,149</b>	<b>4,246</b>	<b>4,335</b>	<b>4,420</b>	<b>4,429</b>

#### Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	2,689	2,786	2,884	2,993	3,094	3,187	3,197

#### Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	1,219	1,219	1,219	1,219	1,219	1,219	1,219

#### Estimated Agricultural Exempt Use (by aquifer) \*

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	59	62	46	34	22	14	13

\* Coastal Bend GCD Rules include exemptions for wells used for agricultural use if the well owner provides a signed statement that the well will not produce more than five million gallons per year. There is not enough available information in the TWDB Groundwater Database to determine the number of wells that qualify for agricultural exempt use. The number reported here reflects all wells in the TWDB Groundwater Database classified as irrigation wells within Coastal Bend GCD.

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.

Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Coastal Plains GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	3,388	3,485	3,583	3,692	3,793	3,886	3,896
<b>Total</b>	<b>3,388</b>	<b>3,485</b>	<b>3,583</b>	<b>3,692</b>	<b>3,793</b>	<b>3,886</b>	<b>3,896</b>

Estimated Domestic Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	2,689	2,786	2,884	2,993	3,094	3,187	3,197

Estimated Livestock Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	699	699	699	699	699	699	699

Estimated Agricultural Exempt Use (by aquifer) \*

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	59	62	46	34	22	14	13

\* Coastal Plains GCD Rules include exemptions for wells used for agricultural use if the well owner provides a signed statement that the well will not produce more than five million gallons per year (9.5 gallons per day). There is not enough available information in the TWDB Groundwater Database to determine the number of wells that qualify for agricultural exempt use. The number reported here reflects all wells in the TWDB Groundwater Database classified as irrigation wells in Coastal Plains GCD.

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.

Values are rounded to the nearest acre-foot.

## Projected Exempt Groundwater Use Estimates Acre-feet per year

### Colorado County GCD

#### Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	1,273	1,283	1,290	1,308	1,329	1,351	1,353
<b>Total</b>	<b>1,273</b>	<b>1,283</b>	<b>1,290</b>	<b>1,308</b>	<b>1,329</b>	<b>1,351</b>	<b>1,353</b>

#### Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	663	673	680	698	719	741	743

#### Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	510	510	510	510	510	510	510

#### Estimated Mining and Rig Supply Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	100	100	100	100	100	100	100

Estimates derived using Colorado County GCD input, Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, the TWDB Groundwater Database, and input from Colorado County GCD.

Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Evergreen UWCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,825	1,850	1,851	1,851	1,851	1,851	1,851
Yegua-Jackson	1,576	1,578	1,578	1,578	1,578	1,578	1,578
<b>Total</b>	<b>3,401</b>	<b>3,428</b>	<b>3,429</b>	<b>3,429</b>	<b>3,429</b>	<b>3,429</b>	<b>3,429</b>

Estimated Domestic Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	282	307	308	308	308	308	308
Yegua-Jackson	22	24	24	24	24	24	24

Estimated Livestock Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	543	543	543	543	543	543	543
Yegua-Jackson	54	54	54	54	54	54	54

Estimated Mining and Rig Supply Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Yegua-Jackson	1,500	1,500	1,500	1,500	1,500	1,500	1,500

Estimates derived from Evergreen UWCD.  
 Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates  
Acre-feet per year**

**Fayette County GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,198	1,261	1,297	1,328	1,349	1,369	1,391
Other	50	55	56	56	61	61	62
Yegua-Jackson	18	19	19	19	19	18	19
<b>Total</b>	<b>1,266</b>	<b>1,335</b>	<b>1,372</b>	<b>1,403</b>	<b>1,430</b>	<b>1,449</b>	<b>1,473</b>

**Estimated Domestic Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	570	633	669	700	721	741	763
Other	31	36	37	37	42	42	43
Yegua-Jackson	18	19	19	19	19	18	19

**Estimated Livestock Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	628	628	628	628	628	628	628
Other	19	19	19	19	19	19	5

Estimates derived from contracted work by Daniel B. Stephens and Associates for Fayette County GCD.  
Values are rounded to the nearest acre-foot.



**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Goliad County GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	2,110	2,211	2,044	2,297	3,100	3,198	2,296
	<b>2,110</b>	<b>2,211</b>	<b>2,044</b>	<b>2,297</b>	<b>3,100</b>	<b>3,198</b>	<b>2,296</b>

Estimated Domestic Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,070	1,171	1,234	1,257	2,060	2,158	2,256

Estimated Livestock Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	790	790	790	790	790	790	790

Estimated Mining and Rig Supply Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	250	250	250	250	250	250	250

Estimates derived from Goliad County GCD.  
 Values are rounded to the nearest acre-foot.

## Projected Exempt Groundwater Use Estimates Acre-feet per year

### Pecan Valley GCD

#### Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	5,021	5,043	5,040	5,063	5,084	5,053	5,050
Other	21	20	21	21	21	19	19
<b>Total</b>	<b>5,042</b>	<b>5,063</b>	<b>5,061</b>	<b>5,084</b>	<b>5,105</b>	<b>5,072</b>	<b>5,069</b>

#### Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	720	716	726	734	731	680	675
Other	21	20	21	21	21	19	19

#### Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	1,131	1,131	1,131	1,131	1,131	1,131	1,131

#### Estimated Municipal Exempt Use (by Aquifer) \*

Aquifer	2020	2030	2040	2050	2060	2070	2080
Gulf Coast	3,170	3,196	3,183	3,198	3,222	3,242	3,244

\*Pecan Valley GCD rules exempt municipal groundwater use from grandfathered wells where the intended use and production amount has not changed.

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.

Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Refugio GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	580	583	584	585	585	585	585
<b>Total</b>	<b>580</b>	<b>583</b>	<b>584</b>	<b>585</b>	<b>585</b>	<b>585</b>	<b>585</b>

Estimated Domestic Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	153	156	157	158	158	158	158

Estimated Livestock Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	427	427	427	427	427	427	427

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.

Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates  
Acre-feet per year**

**Texana GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,581	1,576	1,575	1,578	1,579	1,580	1,581
<b>Total</b>	<b>1,581</b>	<b>1,576</b>	<b>1,575</b>	<b>1,578</b>	<b>1,579</b>	<b>1,580</b>	<b>1,581</b>

Estimated Domestic Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	357	352	351	354	355	356	357

Estimated Livestock Exempt Use (by aquifer)

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,224	1,224	1,224	1,224	1,224	1,224	1,224

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.

Values are rounded to the nearest acre-foot.

**Projected Exempt Groundwater Use Estimates**  
**Acre-feet per year**

**Victoria County GCD**

**Total Estimated Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,928	1,980	2,019	2,060	2,103	2,143	2,147
<b>Other</b>	<b>1,928</b>	<b>1,980</b>	<b>2,019</b>	<b>2,060</b>	<b>2,103</b>	<b>2,143</b>	<b>2,147</b>

**Estimated Domestic Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	1,290	1,342	1,381	1,422	1,465	1,505	1,509

**Estimated Livestock Exempt Use (by aquifer)**

<b>Aquifer</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>	<b>2080</b>
Gulf Coast	638	638	638	638	638	638	638

Estimates derived using Texas State Demographic Center Data, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB Groundwater Database.

Values are rounded to the nearest acre-foot.