

# Projected Exempt Groundwater Use Estimates

Groundwater Management Area 16  
TWDB Final Estimates  
December 2015

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

### Bee GCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	1,415	1,495	1,583	1,612	1,619	1,621	1,621
Other	145	159	171	174	175	175	175

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	1,104	1,215	1,303	1,332	1,339	1,341	1,341
Other	142	156	168	171	172	172	172

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	311	280	280	280	280	280	280
Other	3	3	3	3	3	3	3

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.

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

**Brush Country GCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	2,785	3,195	3,490	3,658	3,827	3,982	4,122
Other	22	26	29	31	32	34	35

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	1,633	1,976	2,271	2,439	2,608	2,763	2,903
Other	14	18	21	23	24	26	27

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	1,152	1,219	1,219	1,219	1,219	1,219	1,219
Other	8	8	8	8	8	8	8

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.

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

**Corpus Christi ASRCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	40	38	40	41	42	42	43

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	12	11	13	14	15	15	16

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	28	27	27	27	27	27	27

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.

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

**Duval County GCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	980	1,038	1,071	1,092	1,110	1,125	1,137
Yegua-Jackson	2	2	2	2	2	2	2

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	359	396	429	450	468	483	495
Yegua-Jackson	0	0	0	0	0	0	0

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	621	642	642	642	642	642	642
Yegua-Jackson	2	2	2	2	2	2	2

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.

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

**Kenedy County GCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	2,600	2,600	2,600	2,600	2,600	2,600	2,600

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	439	439	439	439	439	439	439

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	1,840	1,840	1,840	1,840	1,840	1,840	1,840

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	321	321	321	321	321	321	321

Estimates provided by Kenedy County GCD and are based on calculations reported in "Calculations Supporting Rule 11D – Production Limits of the Kenedy County Groundwater Conservation District" by Venkatesh Uddameri (April 25, 2012).

Values are rounded to the nearest acre-foot.

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

### Live Oak UWCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	941	1,104	1,151	1,151	1,151	1,151	1,151
Other	27	31	33	33	33	33	33
Yegua-Jackson	1,137	2,946	3,312	3,276	2,643	1,802	1,234

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	408	522	569	569	569	569	569
Other	13	16	18	18	18	18	18
Yegua-Jackson	13	16	18	18	18	18	18

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	533	582	582	582	582	582	582
Other	14	15	15	15	15	15	15
Yegua-Jackson	31	34	34	34	34	34	34

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,578	542	575	572	513	422	346
Yegua-Jackson	526	181	192	191	171	141	115

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database. Mining and rig supply estimates based on input from by Live Oak UWCD.

Values are rounded to the nearest acre-foot.

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

### McMullen GCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	147	133	150	148	82	58	41
Gulf Coast	62	66	71	71	71	71	71
Yegua-Jackson	1	1	1	1	1	1	1

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	22	32	37	37	37	37	37
Yegua-Jackson	0	0	0	0	0	0	0

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Gulf Coast	40	34	34	34	34	34	34
Yegua-Jackson	1	1	1	1	1	1	1

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	147	133	150	148	82	58	41

Mining and rig supply estimates for 2015 provided by McMullen GCD. Domestic and livestock estimates and projections derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database. Mining and rig supply estimates provided by McMullen GCD.

Values are rounded to the nearest acre-foot.



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

**Red Sands GCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	258	431	526	617	707	798	886

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	190	364	459	550	640	731	819

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	68	67	67	67	67	67	67

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.

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

**San Patricio County GCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	1,110	1,101	1,139	1,168	1,188	1,202	1,211

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	924	924	962	991	1,011	1,025	1,034

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	186	177	177	177	177	177	177

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.

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

**Starr County GCD**

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	1,647	2,250	2,788	3,041	3,288	3,515	3,721
Other	299	465	597	658	715	770	820
Sparta	31	51	67	75	82	89	95
Yegua-Jackson	272	357	437	475	510	544	575

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	1,041	1,727	2,265	2,519	2,767	2,994	3,200
Other	255	422	554	616	676	732	782
Sparta	31	51	67	75	82	89	95
Yegua-Jackson	155	256	336	374	409	443	474

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

<b>Aquifer</b>	<b>2015</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
Gulf Coast	606	521	521	521	521	521	521
Other	41	36	36	36	36	36	36
Yegua-Jackson	117	101	101	101	101	101	101

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

Values are rounded to the nearest acre-foot.