

# Projected Exempt Groundwater Use Estimates

Groundwater Management Area 13  
TWDB Final Estimates  
December 2015

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# Projected Exempt Groundwater Use Estimates

## Acre-feet per year

### Edwards Aquifer Authority

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Edwards (Balcones Fault Zone)	284	198	216	252	293	331	366

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Edwards (Balcones Fault Zone)	133	94	112	148	189	227	262

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Edwards (Balcones Fault Zone)	151	104	104	104	104	104	104

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Estimates based on input from Evergreen UWCD. Projections are 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

### Evergreen UWCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	2,414	2,558	2,915	3,148	3,363	3,564	3,750
Other	229	239	268	289	306	322	337
Queen City	2,414	4,340	4,480	4,488	3,967	3,431	3,139
Sparta	500	548	665	731	791	848	900
Yegua-Jackson	479	440	460	469	477	487	493

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	854	1,146	1,503	1,736	1,951	2,152	2,338
Other	69	96	125	146	163	179	194
Queen City	279	429	602	703	797	885	964
Sparta	157	259	376	442	502	559	611
Yegua-Jackson	65	88	108	117	125	135	141

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,560	1,412	1,412	1,412	1,412	1,412	1,412
Other	160	143	143	143	143	143	143
Queen City	494	435	435	435	435	435	435
Sparta	343	289	289	289	289	289	289
Yegua-Jackson	414	352	352	352	352	352	352

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	0	0	0	0	0	0	0
Queen City	1,641	3,476	3,443	3,350	2,735	2,111	1,740
Sparta	0	0	0	0	0	0	0
Yegua-Jackson	1,000	1,000	500	0	0	0	0

Estimates based on input from Evergreen UWCD. Projections are 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**

**Gonzales County UWCD**

**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>
Carrizo-Wilcox	1,907	1,979	2,003	2,027	2,052	2,078	2,104
Gulf Coast	2	2	2	3	3	3	3
Other	351	365	371	376	382	388	394
Queen City	461	481	490	499	507	517	526
Sparta	360	374	377	380	383	387	390
Yegua-Jackson	492	510	515	520	525	531	537

**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>
Carrizo-Wilcox	148	155	179	203	228	254	280
Gulf Coast	2	2	2	3	3	3	3
Other	41	44	50	55	61	67	73
Queen City	64	68	77	86	94	104	113
Sparta	27	29	32	35	38	42	45
Yegua-Jackson	47	50	55	60	65	71	77

**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>
Carrizo-Wilcox	1,759	1,824	1,824	1,824	1,824	1,824	1,824
Gulf Coast	0	0	0	0	0	0	0
Other	310	321	321	321	321	321	321
Queen City	397	413	413	413	413	413	413
Sparta	333	345	345	345	345	345	345
Yegua-Jackson	445	460	460	460	460	460	460

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

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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>
Carrizo-Wilcox	3380	7,299	5,506	3,705	1,904	111	5
Gulf Coast	0	0	0	0	0	0	0
Other	1	1	1	1	0	0	0
Queen City	0	0	0	0	0	0	0
Sparta	0	0	0	0	0	0	0
Yegua-Jackson	167	361	272	183	94	6	0

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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 provided by Gonzales County Underground Water Conservation District. District rules include exemptions for agricultural uses as of November 2015; these estimates are excluded in this report due to lack of data.

Values are rounded to the nearest acre-foot.

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

**Guadalupe 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>
Carrizo-Wilcox	511	467	469	521	590	659	728
Other	34	28	28	29	32	34	36

**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>
Carrizo-Wilcox	230	259	261	313	382	451	520
Other	7	8	8	9	12	14	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>
Carrizo-Wilcox	281	208	208	208	208	208	208
Other	27	20	20	20	20	20	20

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

### McMullen GCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	3,803	3,441	3,872	3,833	2,113	1,491	1,052
Other	5	6	7	7	7	7	7
Queen City	3	4	4	4	4	4	4
Yegua-Jackson	28	31	34	34	34	34	34

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	11	16	19	19	19	19	19
Other	3	4	5	5	5	5	5
Queen City	1	2	2	2	2	2	2
Yegua-Jackson	11	16	19	19	19	19	19

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	2	2	2	2	2	2	2
Other	2	2	2	2	2	2	2
Queen City	2	2	2	2	2	2	2
Yegua-Jackson	17	15	15	15	15	15	15

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	3,803	3,441	3,872	3,833	2,113	1,491	1,052

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

### Medina County GCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	405	375	387	400	411	421	431
Other	52	50	51	52	55	56	57
Trinity	3	2	2	2	2	2	2

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	207	208	220	233	244	254	264
Other	29	30	31	32	35	36	37

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	198	167	167	167	167	167	167
Other	23	20	20	20	20	20	20
Trinity	3	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

### Plum Creek CD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	196	209	239	271	304	337	369
Other	13	15	16	18	19	20	21

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	143	148	178	210	243	276	308
Other	5	5	6	8	9	10	11

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	53	61	61	61	61	61	61
Other	8	10	10	10	10	10	10

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**

**Uvalde County UWCD**

**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>
Carrizo-Wilcox	20	27	33	35	38	40	42
Other	26	36	43	47	50	53	57

**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>
Carrizo-Wilcox	20	27	33	35	38	40	42
Other	26	36	43	47	50	53	57

**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>
Carrizo-Wilcox	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0

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

### Wintergarden GCD

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	12,044	24,710	25,322	22,590	15,535	8,421	5,001
Other	248	287	322	342	361	379	394
Queen City	11	12	13	13	14	15	15
Sparta	191	206	221	233	246	257	268
Yegua-Jackson	55	57	58	58	59	60	60

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	534	645	755	813	871	920	966
Other	127	164	199	219	238	256	271
Queen City	6	7	8	8	9	10	10
Sparta	110	122	137	149	162	173	184
Yegua-Jackson	6	7	8	8	9	10	10

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	729	749	749	749	749	749	749
Other	121	123	123	123	123	123	123
Queen City	5	5	5	5	5	5	5
Sparta	81	84	84	84	84	84	84
Yegua-Jackson	49	50	50	50	50	50	50

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

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	10,781	23,316	23,818	21,028	13,915	6,752	3,286

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.