

Projected Exempt Groundwater Use Estimates

Groundwater Management Area 12
TWDB Final Estimates
December 2015

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Projected Exempt Groundwater Use Estimates Acre-feet per year

Brazos Valley GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Brazos River Alluvium	71	61	63	64	66	68	70
Carrizo-Wilcox	4,321	3,376	3,967	4,600	5,363	6,278	7,401
Gulf Coast	20	28	26	21	23	27	34
Other	122	137	137	128	134	146	164
Queen City	155	165	177	182	197	212	231
Sparta	258	297	293	272	284	307	342
Yegua-Jackson	490	612	591	528	547	601	685

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Brazos River Alluvium	10	12	14	15	17	19	21
Carrizo-Wilcox	216	248	303	350	399	443	483
Gulf Coast	20	28	26	21	23	27	34
Other	57	78	78	69	75	87	105
Queen City	78	96	108	113	128	143	162
Sparta	110	152	148	127	139	162	197
Yegua-Jackson	251	355	334	271	290	344	428

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Brazos River Alluvium	61	49	49	49	49	49	49
Carrizo-Wilcox	305	244	244	244	244	244	244
Gulf Coast	0	0	0	0	0	0	0
Other	65	59	59	59	59	59	59
Queen City	77	69	69	69	69	69	69
Sparta	148	145	145	145	145	145	145
Yegua-Jackson	239	257	257	257	257	257	257

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

Fayette County GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	0	0	0	0	0	0	0
Other	57	77	91	98	103	109	111
Queen City	83	84	85	86	86	86	86
Sparta	100	110	117	120	123	125	126
Yegua-Jackson	1,036	1,310	1,855	1,701	1,554	1,398	999

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	0	0	0	0	0	0	0
Other	39	59	73	80	85	91	93
Queen City	2	3	4	5	5	5	5
Sparta	19	29	36	39	42	44	45
Yegua-Jackson	124	188	235	257	274	288	298

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	0	0	0	0	0	0	0
Other	18	18	18	18	18	18	18
Queen City	81	81	81	81	81	81	81
Sparta	81	81	81	81	81	81	81
Yegua-Jackson	701	701	701	701	701	701	701

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
Other	0	0	0	0	0	0	0
Queen City	0	0	0	0	0	0	0
Sparta	0	0	0	0	0	0	0
Yegua-Jackson	211	421	919	749	579	409	0

Estimates provided by Fayette County GCD. Domestic exempt use 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

Lost Pines GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	564	803	1,707	1,990	2,356	2,851	3,516
Other	136	196	363	415	485	577	700
Queen City	272	352	530	588	662	759	890
Sparta	81	111	191	216	248	293	351
Yegua-Jackson	57	63	73	77	81	87	94

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	176	427	1,333	1,617	1,985	2,481	3,147
Other	33	81	248	300	370	462	585
Queen City	61	108	286	344	418	515	646
Sparta	22	44	124	149	181	226	284
Yegua-Jackson	20	21	31	35	39	45	52

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	287	321	321	321	321	321	321
Other	103	115	115	115	115	115	115
Queen City	211	244	244	244	244	244	244
Sparta	59	67	67	67	67	67	67
Yegua-Jackson	37	42	42	42	42	42	42

Estimated Agricultural Exempt Use (by aquifer) *

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	101	55	53	52	50	49	48
Queen City	0	0	0	0	0	0	0
Sparta	0	0	0	0	0	0	0

* Lost Pines GCD Rules include exemptions for wells used for agricultural use that are incapable of producing more than 25,000 gallons per day. According to information in the TWDB groundwater database, there is one irrigation well that qualifies for this exemption in the District (state well #5839904).

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

Mid-East Texas GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,225	1,530	1,725	1,760	2,011	2,749	4,578
Other	239	278	311	324	359	441	628
Queen City	318	342	373	392	430	501	652
Sparta	409	431	465	494	525	555	583
Yegua-Jackson	248	263	283	300	318	335	352

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	985	1,265	1,460	1,495	1,746	2,484	4,313
Other	239	278	311	324	359	441	628
Queen City	276	298	329	348	386	457	608
Sparta	385	407	441	470	501	531	559
Yegua-Jackson	229	244	264	281	299	316	333

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	240	265	265	265	265	265	265
Other	0	0	0	0	0	0	0
Queen City	42	44	44	44	44	44	44
Sparta	24	24	24	24	24	24	24
Yegua-Jackson	19	19	19	19	19	19	19

Estimated Mining and Rig Supply Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,523	3,824	4,494	3,927	3,183	2,333	1,730

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

Post Oak Savannah GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Brazos River Alluvium	18	16	16	16	16	16	16
Carrizo-Wilcox	847	629	607	617	630	640	650
Other	127	108	112	117	125	130	134
Queen City	351	297	308	319	336	348	357
Sparta	214	184	191	198	210	218	224
Yegua-Jackson	312	266	277	288	306	318	327

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Brazos River Alluvium	0	0	0	0	0	0	0
Carrizo-Wilcox	446	244	222	232	245	255	265
Other	85	71	75	80	88	93	97
Queen City	207	167	178	189	206	218	227
Sparta	132	109	116	123	135	143	149
Yegua-Jackson	199	165	176	187	205	217	226

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Brazos River Alluvium	18	16	16	16	16	16	16
Carrizo-Wilcox	401	385	385	385	385	385	385
Other	42	37	37	37	37	37	37
Queen City	144	130	130	130	130	130	130
Sparta	82	75	75	75	75	75	75
Yegua-Jackson	113	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.