

Projected Exempt Groundwater Use Estimates

Groundwater Management Area 11

TWDB Final Estimates

December 2015

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Projected Exempt Groundwater Use Estimates Acre-feet per year

Neches & Trinity Valleys GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	2,558	2,564	2,564	2,588	2,600	2,613	2,631
Nacatoch	9	8	8	7	7	7	6
Other	734	735	734	741	744	747	751
Queen City	1,960	1,998	2,045	2,088	2,120	2,153	2,186
Sparta	410	419	438	452	463	474	486

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	2,172	2,143	2,143	2,167	2,179	2,192	2,210
Nacatoch	9	8	8	7	7	7	6
Other	630	622	621	628	631	634	638
Queen City	1,680	1,690	1,737	1,780	1,812	1,845	1,878
Sparta	399	406	425	439	450	461	473

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	369	401	401	401	401	401	401
Other	104	113	113	113	113	113	113
Queen City	280	308	308	308	308	308	308
Sparta	11	13	13	13	13	13	13

Estimated Agricultural Exempt Use (by aquifer) *

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	17	20	20	20	20	20	20
Other	0	0	0	0	0	0	0
Queen City	17	20	20	20	20	20	20
Sparta	0	0	0	0	0	0	0

* Neches & Trinity Valleys GCD Rules include exemptions for wells used for agricultural use that are incapable of producing more than 25,000 gallons per day. According to the TWDB groundwater database, there are two irrigation wells that qualify for this exemption in the District (state well #3805703 and state well #3827705).

Estimates 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

Panola County GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,600	1,734	1,891	1,955	2,008	2,050	2,082

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,326	1,516	1,673	1,737	1,790	1,832	1,864

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	164	171	171	171	171	171	171

Estimated Agricultural Exempt Use (by aquifer) *

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	110	47	47	47	47	47	47

* Panola County GCD Rules include exemptions for wells used for agricultural use that are incapable of producing more than 25,000 gallons per day and are on tracts of land less than 5 acres. 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 reports here reflects all wells in the TWDB Groundwater Database classified as irrigation wells in the district.

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

Pineywoods GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	857	935	1,013	1,095	1,183	1,277	1,382
Other	160	227	281	300	319	337	356
Queen City	223	252	274	297	323	351	382
Sparta	238	324	401	431	459	486	512
Yegua-Jackson	724	1,150	1,489	1,576	1,655	1,725	1,788

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	547	571	639	708	783	861	942
Other	144	206	259	277	295	311	328
Queen City	141	147	164	182	202	222	243
Sparta	229	315	392	422	450	477	503
Yegua-Jackson	688	1,113	1,452	1,539	1,618	1,688	1,751

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	190	240	250	263	276	292	316
Other	16	21	22	23	24	26	28
Queen City	82	105	110	115	121	129	139
Sparta	9	9	9	9	9	9	9
Yegua-Jackson	36	37	37	37	37	37	37

Estimated Agricultural Exempt Use (by aquifer) *

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	120	124	124	124	124	124	124
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	0	0	0	0	0	0	0

* Pineywoods GCD Rules include exemptions for wells used for agricultural use that are incapable of producing more than 25,000 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 reports here reflects all wells in the TWDB Groundwater Database classified as irrigation wells in the district.

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

Rusk County GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	2,799	3,309	3,969	4,214	4,470	4,746	5,060
Other	50	61	71	78	86	94	102
Queen City	0	0	0	0	0	0	0

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	1,901	2,303	2,691	2,968	3,259	3,563	3,879
Other	50	61	71	78	86	94	102
Queen City	0	0	0	0	0	0	0

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	209	217	220	224	228	232	232
Other	0	0	0	0	0	0	0
Queen City	0	0	0	0	0	0	0

Estimated Mining and Rig Supply Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Carrizo-Wilcox	689	789	1,058	1,022	983	951	949

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.