

# Projected Exempt Groundwater Use Estimates

Groundwater Management Area 6

TWDB Estimates

May 2020

Clear Fork GCD .....	1
Gateway GCD.....	2
Mesquite GCD .....	3
Rolling Plains GCD .....	4

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**

**Clear Fork 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>
Dockum	56	57	59	61	63	63	63
Other	233	232	231	231	231	231	231
Seymour	7	7	7	7	7	7	7
<b>Total</b>	<b>296</b>	<b>296</b>	<b>297</b>	<b>299</b>	<b>301</b>	<b>301</b>	<b>301</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>
Dockum	18	18	17	17	17	17	17
Other	22	21	20	20	20	20	20
Seymour	7	7	7	7	7	7	7

**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>
Dockum	37	40	42	44	46	46	46
Other	211	211	211	211	211	211	211

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**

**Gateway 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>
Blaine	689	735	742	750	758	766	767
Dockum	35	36	38	39	41	41	41
Ogallala	6	6	6	7	7	7	7
Other	518	579	595	613	632	645	646
Seymour	138	145	147	149	151	152	152
<b>Total</b>	<b>1,386</b>	<b>1,501</b>	<b>1,528</b>	<b>1,558</b>	<b>1,589</b>	<b>1,611</b>	<b>1,613</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>
Blaine	16	16	16	16	17	17	17
Dockum	6	6	6	6	6	6	6
Ogallala	2	2	2	2	2	2	2
Other	62	62	61	61	62	62	63
Seymour	15	15	15	15	15	15	15

**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>
Blaine	673	719	726	733	741	749	750
Dockum	29	30	32	33	35	35	35
Ogallala	4	4	4	4	5	5	5
Other	456	517	534	552	570	582	583
Seymour	123	131	132	134	136	137	137

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**

**Mesquite 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>
Blaine	132	167	174	181	189	197	197
Other	266	317	330	345	360	377	378
Seymour	8	9	10	10	10	11	11
<b>Total</b>	<b>406</b>	<b>493</b>	<b>514</b>	<b>536</b>	<b>559</b>	<b>585</b>	<b>586</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>
Blaine	2	2	2	2	2	2	2
Other	8	8	8	8	8	9	9
Seymour	1	1	1	1	1	1	1

**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>
Blaine	130	165	172	179	187	195	195
Other	258	309	322	337	352	368	369
Seymour	7	8	9	9	9	10	10

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**

**Rolling 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>
Other	204	204	204	204	204	204	204
Seymour	337	337	337	338	339	340	340
<b>Total</b>	<b>541</b>	<b>541</b>	<b>541</b>	<b>542</b>	<b>543</b>	<b>544</b>	<b>544</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>
Other	4	4	4	4	4	4	4
Seymour	31	31	31	32	32	33	33

**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>
Other	120	120	120	120	120	120	120
Seymour	169	169	169	169	169	169	169

\* There is one Cross Timbers Aquifer domestic well in the district in the TWDB Groundwater Database. The volume of estimated exempt use was not significant enough to include in this report.

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.