

# Projected Exempt Groundwater Use Estimates

Groundwater Management Area 3

TWDB Estimates

May 2020

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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**

**Middle Pecos 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>
Edwards-Trinity (Plateau)	479	487	497	506	514	522	523
Other	23	23	23	23	23	23	23
Pecos Valley	613	632	655	675	695	713	715
<b>Total</b>	<b>1,115</b>	<b>1,142</b>	<b>1,175</b>	<b>1,204</b>	<b>1,232</b>	<b>1,258</b>	<b>1,261</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>
Edwards-Trinity (Plateau)	153	161	171	179	188	196	197
Pecos Valley	357	375	399	419	438	457	459

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>
Edwards-Trinity (Plateau)	326	326	326	326	326	326	326
Other	23	23	23	23	23	23	23
Pecos Valley	256	256	256	256	256	256	256

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**

**Reeves County 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	2	2	2	2	2	2	2
Edwards-Trinity (Plateau)	1,541	1,545	1,498	1,283	1,076	918	905
Igneous	33	33	33	34	34	35	35
Other	143	146	148	151	153	155	155
Pecos Valley	1,617	1,624	1,580	1,368	1,164	1,008	995
<b>Total</b>	<b>3,336</b>	<b>3,350</b>	<b>3,261</b>	<b>2,838</b>	<b>2,429</b>	<b>2,118</b>	<b>2,092</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>
Edwards-Trinity (Plateau)	128	132	136	140	143	146	146
Igneous	14	15	15	16	16	16	16
Other	86	88	91	93	96	97	98
Pecos Valley	228	235	241	249	255	260	260

**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	2	2	2	2	2	2	2
Edwards-Trinity (Plateau)	152	152	152	152	152	152	152
Igneous	18	18	18	18	18	18	18
Other	58	58	58	58	58	58	58
Pecos Valley	129	129	129	129	129	129	129

**Estimated Mining 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>
Edwards-Trinity (Plateau)	1,260	1,260	1,210	990	780	620	606
Pecos Valley	1,260	1,260	1,210	990	780	620	606

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.