

Projected Exempt Groundwater Use Estimates

Groundwater Management Area 1

TWDB Final Estimates

December 2015

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Projected Exempt Groundwater Use Estimates
Acre-feet per year

Hemphill County UWCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Ogallala	2,100	2,991	2,600	2,230	1,863	1,502	1,397

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Ogallala	121	131	139	142	146	149	152

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Ogallala	1,067	1,170	1,173	1,178	1,183	1,189	1,195

Estimated Mining and Rig Supply Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Ogallala	912	1,690	1,288	910	534	164	50

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

High Plains UWCD No. 1

Total Estimated Exempt Use by aquifer

Aquifer	2015	2020	2030	2040	2050	2060	2070
Dockum	416	409	445	494	541	593	644
Ogallala	8,824	8,442	8,850	9,384	9,918	10,486	11,077
Total	9,240	8,851	9,295	9,878	10,459	11,079	11,721

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Dockum	408	406	443	493	541	594	647
Ogallala	8,664	8,536	9,307	10,309	11,329	12,409	13,532

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2020	2030	2040	2050	2060	2070
Dockum	7	5	5	5	5	5	5
Ogallala	155	144	146	147	149	150	152

Estimated Rig Supply Exempt Use (by aquifer)

Aquifer	2020	2020	2030	2040	2050	2060	2070
Dockum	0	0	0	0	0	0	0
Ogallala	5	7	9	10	11	12	14

2015 estimates provided by High Plains UWCD No. 1. Projections derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, and TWDB water demand projections.

Values are rounded to the nearest acre-foot.

Projected Exempt Groundwater Use Estimates Acre-feet per year

North Plains GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Dockum	190	204	221	237	255	273	292
Ogallala	21,175	26,021	26,546	27,906	29,353	30,903	32,562
Rita Blanca	979	1,188	1,251	1,317	1,391	1,470	1,555

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2020	2030	2040	2050	2060	2070
Dockum	26	30	34	36	39	41	42
Ogallala	1,107	1,228	1,377	1,472	1,559	1,645	1,729
Rita Blanca	6	7	8	8	9	10	11

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2020	2030	2040	2050	2060	2070
Dockum	164	174	187	201	216	232	250
Ogallala	20,068	24,793	25,169	26,434	27,794	29,258	30,833
Rita Blanca	973	1,181	1,243	1,309	1,382	1,460	1,544

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

Panhandle GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Blaine	125	135	143	144	144	145	146
Dockum	961	1,026	1,133	1,247	1,360	1,482	1,610
Ogallala	8,147	11,215	9,838	8,469	7,123	6,684	6,809
Other	807	885	918	928	939	949	960

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Blaine	13	13	13	14	14	15	16
Dockum	906	963	1,070	1,184	1,296	1,418	1,546
Ogallala	1,292	1,364	1,477	1,584	1,701	1,816	1,933
Other	111	112	120	127	135	142	150

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Blaine	112	122	130	130	130	130	130
Dockum	55	63	63	63	64	64	64
Ogallala	4,357	4,457	4,539	4,579	4,620	4,667	4,715
Other	696	773	798	801	804	807	810

Estimated Mining and Rig Supply Exempt Use (by aquifer)

Aquifer	2015	2020	2030	2040	2050	2060	2070
Ogallala	2,498	5,394	3,822	2,306	802	201	161

Estimates derived using 2010 Census Data, TWDB population projections, TWDB Water Use Survey data, TWDB water demand projections, and the TWDB water well database.

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