

Projected Exempt Groundwater Use Estimates

Groundwater Management Area 10

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

Barton Springs/Edwards Aquifer CD

Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	3,423	4,054	4,710	5,255	5,873	6,584	6,661
Other	569	662	757	825	882	947	954
Trinity	629	781	947	1,112	1,359	1,643	1,675
Total	4,621	5,497	6,414	7,192	8,114	9,174	9,290

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	3,346	3,977	4,633	5,178	5,796	6,507	6,584
Other	560	653	748	816	873	938	945
Trinity	624	776	942	1,107	1,354	1,638	1,670

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	77	77	77	77	77	77	77
Other	9	9	9	9	9	9	9
Trinity	5	5	5	5	5	5	5

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

Comal Trinity GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	34	43	52	61	70	79	80
Trinity	551	692	838	984	1,121	1,261	1,275
Total	585	735	890	1,045	1,191	1,340	1,355

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	34	43	52	61	70	79	80
Trinity	551	692	838	984	1,121	1,261	1,275

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

Kinney County GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	109	109	109	109	109	109	109
Edwards-Trinity (Plateau)	19	19	19	19	19	19	19
Other	84	84	84	84	84	84	84
Total	212	212	212	212	212	212	212

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	16	16	16	16	16	16	16
Edwards-Trinity (Plateau)	7	7	7	7	7	7	7
Other	10	10	10	10	10	10	10

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	93	93	93	93	93	93	93
Edwards-Trinity (Plateau)	12	12	12	12	12	12	12
Other	74	74	74	74	74	74	74

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

Medina County GCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	1,178	1,211	1,237	1,271	1,301	1,329	1,331
Trinity	293	297	301	305	309	313	313
Total	1,471	1,508	1,538	1,576	1,610	1,642	1,644

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	390	423	449	483	513	541	543
Trinity	51	55	59	63	67	71	71

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	788	788	788	788	788	788	788
Trinity	242	242	242	242	242	242	242

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

Plum Creek CD

Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	178	223	272	322	400	490	500
Other	273	297	323	352	381	409	413
Total	451	520	595	674	781	899	913

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	173	218	267	317	395	485	495
Other	144	168	194	223	252	280	284

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Edwards (Balcones Fault Zone)	5	5	5	5	5	5	5
Other	129	129	129	129	129	129	129

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

Uvalde County UWCD

Total Estimated Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	1,489	1,489	1,489	1,489	1,489	1,489	1,489

Estimated Domestic Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	232	239	245	256	271	286	288

Estimated Livestock Exempt Use (by aquifer)

Aquifer	2020	2030	2040	2050	2060	2070	2080
Other	1,489	1,489	1,489	1,489	1,489	1,489	1,489

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.