

# **APPENDIX A**

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# Estimated Historical Groundwater Use And 2022 State Water Plan Datasets:

Lipan-Kickapoo Water Conservation District

Texas Water Development Board  
Groundwater Division  
Groundwater Technical Assistance Section  
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(512) 463-7317  
January 6, 2023

## ***GROUNDWATER MANAGEMENT PLAN DATA:***

This package of water data reports (part 1 of a 2-part package of information) is being provided to groundwater conservation districts to help them meet the requirements for approval of their five-year groundwater management plan. Each report in the package addresses a specific numbered requirement in the Texas Water Development Board's groundwater management plan checklist. The checklist can be viewed and downloaded from this web address:

<http://www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf>

The five reports included in this part are:

1. Estimated Historical Groundwater Use (checklist item 2)  
*from the TWDB Historical Water Use Survey (WUS)*
2. Projected Surface Water Supplies (checklist item 6)
3. Projected Water Demands (checklist item 7)
4. Projected Water Supply Needs (checklist item 8)
5. Projected Water Management Strategies (checklist item 9)  
*from the 2022 Texas State Water Plan (SWP)*

Part 2 of the 2-part package is the groundwater availability model (GAM) report for the District (checklist items 3 through 5). The District should have received, or will receive, this report from the Groundwater Availability Modeling Department. Questions about the GAM can be directed to Grayson Dowlearn, grayson.dowlearn@twdb.texas.gov, (512) 475-1552.

## **DISCLAIMER:**

The data presented in this report represents the most up-to-date WUS and 2022 SWP data available as of 1/6/2023. Although it does not happen frequently, either of these datasets are subject to change pending the availability of more accurate WUS data or an amendment to the 2022 SWP. District personnel must review these datasets and correct any discrepancies in order to ensure approval of their groundwater management plan.

The WUS dataset can be verified at this web address:

<http://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates/>

The 2022 SWP dataset can be verified by contacting Sabrina Anderson (sabrina.anderson@twdb.texas.gov or 512-936-0886).

The values presented in the data tables of this report are county-based. In cases where groundwater conservation districts cover only a portion of one or more counties the data values are modified with an apportioning multiplier to create new values that more accurately represent conditions within district boundaries. The multiplier used in the following formula is a land area ratio: (data value \* (land area of district in county / land area of county)). For two of the four SWP tables (Projected Surface Water Supplies and Projected Water Demands) only the county-wide water user group (WUG) data values (county other, manufacturing, steam electric power, irrigation, mining and livestock) are modified using the multiplier. WUG values for municipalities, water supply corporations, and utility districts are not apportioned; instead, their full values are retained when they are located within the district and eliminated when they are located outside (we ask each district to identify these entity locations).

The remaining SWP tables (Projected Water Supply Needs and Projected Water Management Strategies) are not modified because district-specific values are not statutorily required. Each district needs only "consider" the county values in these tables.

In the WUS table every category of water use (including municipal) is apportioned. Staff determined that breaking down the annual municipal values into individual WUGs was too complex.

TWDB recognizes that the apportioning formula used is not ideal but it is the best available process with respect to time and staffing constraints. If a district believes it has data that is more accurate it can add those data to the plan with an explanation of how the data were derived. Apportioning percentages that the TWDB used are listed above each applicable table.

For additional questions regarding this data, please contact Stephen Allen (stephen.allen@twdb.texas.gov or 512-463-7317).

# Estimated Historical Water Use

## TWDB Historical Water Use Survey (WUS) Data

Groundwater and surface water historical use estimates are currently unavailable for calendar year 2020. TWDB staff anticipates the calculation and posting of these estimates at a later date.

### CONCHO COUNTY

*88.4% (multiplier)*

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2019	GW	418	0	0	0	5,487	254	6,159
	SW	97	0	0	0	218	254	569
2018	GW	411	0	0	0	5,787	254	6,452
	SW	80	0	0	0	202	254	536
2017	GW	289	0	0	0	4,398	244	4,931
	SW	131	0	0	0	187	244	562
2016	GW	431	0	0	0	3,892	155	4,478
	SW	37	0	0	0	194	155	386
2015	GW	465	0	0	0	3,654	153	4,272
	SW	29	0	0	0	318	153	500
2014	GW	415	0	0	0	3,931	143	4,489
	SW	36	0	0	0	275	143	454
2013	GW	419	0	0	0	4,359	140	4,918
	SW	41	0	0	0	215	140	396
2012	GW	364	0	0	0	4,162	171	4,697
	SW	33	0	0	0	165	171	369
2011	GW	484	0	0	0	2,044	194	2,722
	SW	84	0	0	0	181	194	459
2010	GW	347	0	94	0	5,701	197	6,339
	SW	83	0	16	0	635	197	931
2009	GW	351	0	66	0	1,063	215	1,695
	SW	81	0	11	0	1,238	216	1,546
2008	GW	404	0	39	0	8,543	216	9,202
	SW	32	0	7	0	96	217	352
2007	GW	437	0	0	0	4,523	309	5,269
	SW	60	0	0	0	105	309	474
2006	GW	568	0	0	0	6,747	254	7,569
	SW	58	0	0	0	84	254	396
2005	GW	631	0	0	0	2,604	206	3,441
	SW	86	0	0	0	539	206	831
2004	GW	474	0	0	0	1,606	319	2,399
	SW	87	0	0	0	1,102	80	1,269

**RUNNELS COUNTY**

99.29% (multiplier)

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2019	GW	115	0	0	0	3,199	375	3,689
	SW	1,313	3	0	0	418	375	2,109
2018	GW	95	0	0	0	3,449	373	3,917
	SW	1,377	3	0	0	662	373	2,415
2017	GW	104	0	0	0	2,879	363	3,346
	SW	1,161	3	0	0	884	363	2,411
2016	GW	106	0	4	0	2,933	288	3,331
	SW	1,200	4	0	0	601	288	2,093
2015	GW	119	0	0	0	3,813	286	4,218
	SW	1,020	4	0	0	663	286	1,973
2014	GW	107	0	0	0	2,644	275	3,026
	SW	1,058	6	0	0	816	275	2,155
2013	GW	159	0	0	0	3,059	264	3,482
	SW	1,078	10	0	0	390	264	1,742
2012	GW	168	0	0	0	3,378	292	3,838
	SW	1,052	8	0	0	363	292	1,715
2011	GW	184	0	0	0	1,491	472	2,147
	SW	1,342	7	0	0	241	472	2,062
2010	GW	168	0	66	0	2,158	448	2,840
	SW	1,439	7	11	0	874	448	2,779
2009	GW	276	0	60	0	1,970	424	2,730
	SW	1,329	12	10	0	1,065	423	2,839
2008	GW	257	0	54	0	2,528	437	3,276
	SW	1,218	12	9	0	1,168	437	2,844
2007	GW	286	0	0	0	1,354	385	2,025
	SW	1,197	12	0	0	799	384	2,392
2006	GW	239	0	0	0	2,644	404	3,287
	SW	1,307	17	0	0	865	404	2,593
2005	GW	296	0	0	0	1,638	387	2,321
	SW	1,130	27	0	0	810	388	2,355
2004	GW	249	1	0	0	1,466	80	1,796
	SW	1,168	37	0	0	801	721	2,727

**TOM GREEN COUNTY**

70.35% (multiplier)

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2019	GW	2,920	354	13	0	37,231	582	41,100
	SW	8,796	80	0	0	2,611	146	11,633
2018	GW	2,725	421	0	0	36,390	576	40,112
	SW	9,276	59	0	0	2,120	144	11,599
2017	GW	3,055	433	7	0	35,219	559	39,273
	SW	8,520	72	0	0	2,205	140	10,937
2016	GW	3,027	419	1	0	27,773	373	31,593
	SW	8,192	75	0	0	1,838	93	10,198
2015	GW	3,190	373	0	0	33,756	370	37,689
	SW	9,124	130	0	0	1,769	92	11,115
2014	GW	2,555	307	0	0	29,712	338	32,912
	SW	9,827	159	0	0	2,186	84	12,256
2013	GW	2,863	281	1	0	23,939	355	27,439
	SW	9,772	169	0	0	2,141	89	12,171
2012	GW	2,779	269	0	0	37,123	771	40,942
	SW	10,595	180	0	0	2,075	193	13,043
2011	GW	3,306	310	0	0	5,534	891	10,041
	SW	12,804	283	0	0	1,970	223	15,280
2010	GW	2,688	253	348	0	26,620	811	30,720
	SW	11,713	206	345	0	4,591	203	17,058
2009	GW	1,839	314	335	0	46,914	788	50,190
	SW	11,517	182	333	0	2,814	197	15,043
2008	GW	1,127	358	323	0	60,368	871	63,047
	SW	11,075	224	320	0	0	218	11,837
2007	GW	1,105	310	0	0	48,392	635	50,442
	SW	10,491	198	0	0	3,752	159	14,600
2006	GW	1,140	284	0	0	23,276	950	25,650
	SW	12,163	177	0	0	11,294	238	23,872
2005	GW	1,133	286	0	0	19,564	867	21,850
	SW	10,577	181	0	0	9,146	217	20,121
2004	GW	972	293	0	0	17,134	101	18,500
	SW	10,401	280	0	0	9,240	905	20,826

# Projected Surface Water Supplies

## TWDB 2022 State Water Plan Data

### CONCHO COUNTY

*88.4% (multiplier)*

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
F	County-Other, Concho	Colorado	Colorado Run-of-River	34	34	34	34	34	34
F	Irrigation, Concho	Colorado	Colorado Run-of-River	182	182	182	182	182	182
F	Livestock, Concho	Colorado	Colorado Livestock Local Supply	197	197	197	197	197	197
F	Millersview-Doole WSC	Colorado	OH Ivie Lake/Reservoir Non-System Portion	84	90	88	86	83	75
<b>Sum of Projected Surface Water Supplies (acre-feet)</b>				<b>497</b>	<b>503</b>	<b>501</b>	<b>499</b>	<b>496</b>	<b>488</b>

### RUNNELS COUNTY

*99.29% (multiplier)*

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
F	Ballinger	Colorado	Ballinger/Moonen Lake/Reservoir	0	0	0	0	0	0
F	Ballinger	Colorado	OH Ivie Lake/Reservoir Non-System Portion	1,519	1,547	1,549	1,549	1,543	1,517
F	Coleman County SUD	Colorado	Brownwood Lake/Reservoir	10	10	10	10	10	10
F	Coleman County SUD	Colorado	Coleman Lake/Reservoir	0	0	0	0	0	0
F	Coleman County SUD	Colorado	Hords Creek Lake/Reservoir	0	0	0	0	0	0
F	County-Other, Runnels	Colorado	OH Ivie Lake/Reservoir Non-System Portion	19	20	19	19	19	17
F	Irrigation, Runnels	Colorado	Colorado Run-of-River	196	196	196	196	196	196
F	Livestock, Runnels	Colorado	Colorado Livestock Local Supply	472	472	472	472	472	472
F	Manufacturing, Runnels	Colorado	OH Ivie Lake/Reservoir Non-System Portion	9	9	9	9	9	9
F	Millersview-Doole WSC	Colorado	OH Ivie Lake/Reservoir Non-System Portion	97	102	100	98	95	85
F	North Runnels WSC	Colorado	OH Ivie Lake/Reservoir Non-System Portion	7	8	8	8	8	7
F	North Runnels WSC	Colorado	Winters Lake/Reservoir	0	0	0	0	0	0
F	Winters	Colorado	Winters Lake/Reservoir	0	0	0	0	0	0
<b>Sum of Projected Surface Water Supplies (acre-feet)</b>				<b>2,329</b>	<b>2,364</b>	<b>2,363</b>	<b>2,361</b>	<b>2,352</b>	<b>2,313</b>

*Estimated Historical Water Use and 2022 State Water Plan Dataset:*

*Lipan-Kickapoo Water Conservation District*

*January 6, 2023*

**TOM GREEN COUNTY***70.35% (multiplier)*

All values are in acre-feet

<b>RWPG</b>	<b>WUG</b>	<b>WUG Basin</b>	<b>Source Name</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	<b>2070</b>
F	Concho Rural Water	Colorado	Mountain Creek Lake/Reservoir	0	0	0	0	0	0
F	Irrigation, Tom Green	Colorado	Colorado Run-of-River	1,235	1,235	1,235	1,235	1,235	1,235
F	Livestock, Tom Green	Colorado	Colorado Livestock Local Supply	223	223	223	223	223	223
F	Millersview-Doole WSC	Colorado	OH Ivie Lake/Reservoir Non-System Portion	235	263	269	274	275	254
F	Mining, Tom Green	Colorado	Mountain Creek Lake/Reservoir	0	0	0	0	0	0
F	San Angelo	Colorado	Colorado Run-of-River	214	214	214	214	214	214
F	San Angelo	Colorado	OH Ivie Lake/Reservoir Non-System Portion	5,020	4,850	4,679	4,509	4,338	4,168
F	San Angelo	Colorado	San Angelo Lakes Lake/Reservoir System	0	0	0	0	0	0
<b>Sum of Projected Surface Water Supplies (acre-feet)</b>				<b>6,927</b>	<b>6,785</b>	<b>6,620</b>	<b>6,455</b>	<b>6,285</b>	<b>6,094</b>

# Projected Water Demands

## TWDB 2022 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

### CONCHO COUNTY

*88.4% (multiplier)*

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	County-Other, Concho	Colorado	101	99	96	95	95	95
F	Eden	Colorado	206	210	207	205	204	204
F	Irrigation, Concho	Colorado	4,333	4,333	4,333	4,333	4,333	4,333
F	Livestock, Concho	Colorado	338	338	338	338	338	338
F	Millersview-Doole WSC	Colorado	94	93	90	89	89	89
F	Mining, Concho	Colorado	424	419	373	324	283	247
<b>Sum of Projected Water Demands (acre-feet)</b>			<b>5,496</b>	<b>5,492</b>	<b>5,437</b>	<b>5,384</b>	<b>5,342</b>	<b>5,306</b>

### RUNNELS COUNTY

*99.29% (multiplier)*

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	Ballinger	Colorado	689	687	671	669	667	667
F	Coleman County SUD	Colorado	20	20	20	19	19	19
F	County-Other, Runnels	Colorado	75	73	69	68	67	66
F	Irrigation, Runnels	Colorado	3,083	3,083	3,083	3,083	3,083	3,083
F	Livestock, Runnels	Colorado	700	700	700	700	700	700
F	Manufacturing, Runnels	Colorado	10	11	11	11	11	11
F	Miles	Colorado	113	126	122	121	120	120
F	Millersview-Doole WSC	Colorado	108	105	103	101	101	101
F	Mining, Runnels	Colorado	270	267	238	209	183	160
F	North Runnels WSC	Colorado	169	167	163	162	162	163
F	Winters	Colorado	226	218	206	205	204	204
<b>Sum of Projected Water Demands (acre-feet)</b>			<b>5,463</b>	<b>5,457</b>	<b>5,386</b>	<b>5,348</b>	<b>5,317</b>	<b>5,294</b>

### TOM GREEN COUNTY

*70.35% (multiplier)*

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	Concho Rural Water	Colorado	560	576	588	604	624	646
F	County-Other, Tom Green	Colorado	711	704	730	749	765	778
F	DADS Supported Living Center	Colorado	109	108	108	107	107	107
F	Goodfellow Air Force Base	Colorado	513	568	596	629	666	707
F	Irrigation, Tom Green	Colorado	29,894	29,894	29,894	29,894	29,894	29,894
F	Livestock, Tom Green	Colorado	791	791	791	791	791	791
F	Manufacturing, Tom Green	Colorado	598	677	677	677	677	677

*Estimated Historical Water Use and 2022 State Water Plan Dataset:*

*Lipan-Kickapoo Water Conservation District*

*January 6, 2023*

F	Millersview-Doole WSC	Colorado	263	271	276	283	293	302
F	Mining, Tom Green	Colorado	743	760	787	782	798	813
F	San Angelo	Colorado	17,924	19,657	20,494	21,556	22,847	24,250
F	Tom Green County FWSD 3	Colorado	131	142	147	154	162	172
<b>Sum of Projected Water Demands (acre-feet)</b>			<b>52,237</b>	<b>54,148</b>	<b>55,088</b>	<b>56,226</b>	<b>57,624</b>	<b>59,137</b>

# Projected Water Supply Needs

## TWDB 2022 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

### CONCHO COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	County-Other, Concho	Colorado	0	0	0	0	0	0
F	Eden	Colorado	25	25	25	25	25	25
F	Irrigation, Concho	Colorado	0	0	0	0	0	0
F	Livestock, Concho	Colorado	0	0	0	0	0	0
F	Millersview-Doole WSC	Colorado	21	27	27	26	22	14
F	Mining, Concho	Colorado	0	0	0	0	0	0
<b>Sum of Projected Water Supply Needs (acre-feet)</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### RUNNELS COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	Ballinger	Colorado	830	860	878	880	876	850
F	Coleman County SUD	Colorado	-10	-10	-10	-9	-9	-9
F	County-Other, Runnels	Colorado	-23	-21	-19	-18	-18	-19
F	Irrigation, Runnels	Colorado	0	0	0	0	0	0
F	Livestock, Runnels	Colorado	0	0	0	0	0	0
F	Manufacturing, Runnels	Colorado	0	0	0	0	0	0
F	Miles	Colorado	-19	-34	-35	-39	-42	-48
F	Millersview-Doole WSC	Colorado	24	31	30	30	26	16
F	Mining, Runnels	Colorado	0	0	0	0	0	0
F	North Runnels WSC	Colorado	-162	-159	-155	-154	-154	-156
F	Winters	Colorado	-226	-218	-206	-205	-204	-204
<b>Sum of Projected Water Supply Needs (acre-feet)</b>			<b>-440</b>	<b>-442</b>	<b>-425</b>	<b>-425</b>	<b>-427</b>	<b>-436</b>

### TOM GREEN COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
F	Concho Rural Water	Colorado	8	0	-3	-6	-9	-13
F	County-Other, Tom Green	Colorado	264	252	208	173	140	112
F	DADS Supported Living Center	Colorado	0	0	0	0	0	0
F	Goodfellow Air Force Base	Colorado	-136	-191	-222	-258	-298	-345
F	Irrigation, Tom Green	Colorado	558	509	452	437	386	332
F	Livestock, Tom Green	Colorado	0	0	0	0	0	0
F	Manufacturing, Tom Green	Colorado	-38	-144	-159	-178	-198	-215
F	Millersview-Doole WSC	Colorado	58	80	83	82	75	46

*Estimated Historical Water Use and 2022 State Water Plan Dataset:*

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F	Mining, Tom Green	Colorado	0	0	0	0	0	0
F	San Angelo	Colorado	-4,785	-6,658	-7,632	-8,824	-10,243	-11,775
F	Tom Green County FWSD 3	Colorado	0	0	0	0	0	0
<b>Sum of Projected Water Supply Needs (acre-feet)</b>			<b>-4,959</b>	<b>-6,993</b>	<b>-8,016</b>	<b>-9,266</b>	<b>-10,748</b>	<b>-12,348</b>

# Projected Water Management Strategies

## TWDB 2022 State Water Plan Data

### CONCHO COUNTY

WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
<b>County-Other, Concho, Colorado (F)</b>							
Municipal Conservation - Concho County Other	DEMAND REDUCTION [Concho]	3	3	3	3	3	3
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	3	3	3	3	3	3
		<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Eden, Colorado (F)</b>							
Municipal Conservation - Eden	DEMAND REDUCTION [Concho]	4	4	4	4	4	4
		<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Irrigation, Concho, Colorado (F)</b>							
Irrigation Conservation - Concho County	DEMAND REDUCTION [Concho]	245	490	539	539	539	539
		<b>245</b>	<b>490</b>	<b>539</b>	<b>539</b>	<b>539</b>	<b>539</b>
<b>Millersview-Doole WSC, Colorado (F)</b>							
Municipal Conservation - Millersview-Doole WSC	DEMAND REDUCTION [Concho]	2	2	2	2	2	2
Subordination - OH Ivie Non System Portion	OH Ivie Lake/Reservoir Non-System Portion [Reservoir]	8	0	0	0	1	9
Water Audits And Leak - Millersview-Doole WSC	DEMAND REDUCTION [Concho]	10	10	9	9	9	9
		<b>20</b>	<b>12</b>	<b>11</b>	<b>11</b>	<b>12</b>	<b>20</b>
<b>Mining, Concho, Colorado (F)</b>							
Mining Conservation - Concho County	DEMAND REDUCTION [Concho]	20	20	18	15	13	12
		<b>20</b>	<b>20</b>	<b>18</b>	<b>15</b>	<b>13</b>	<b>12</b>
<b>Sum of Projected Water Management Strategies (acre-feet)</b>		<b>295</b>	<b>532</b>	<b>578</b>	<b>575</b>	<b>574</b>	<b>581</b>

### RUNNELS COUNTY

WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
<b>Ballinger, Colorado (F)</b>							
Municipal Conservation - Ballinger	DEMAND REDUCTION [Runnels]	12	12	12	12	12	12
Subordination - Ballinger/Moonen Lake	Ballinger/Moonen Lake/Reservoir [Reservoir]	751	751	750	748	745	740

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Subordination - OH Ivie Non System Portion	OH Ivie Lake/Reservoir Non-System Portion [Reservoir]	43	0	0	0	8	51
		<b>806</b>	<b>763</b>	<b>762</b>	<b>760</b>	<b>765</b>	<b>803</b>
<b>Coleman County SUD, Colorado (F)</b>							
Subordination - Hords Creek Lake	Hords Creek Lake/Reservoir [Reservoir]	1	1	1	1	1	1
Subordination - Lake Coleman	Coleman Lake/Reservoir [Reservoir]	9	9	9	8	8	8
		<b>10</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>9</b>
<b>County-Other, Runnels, Colorado (F)</b>							
Municipal Conservation - Runnels County Other	DEMAND REDUCTION [Runnels]	2	2	2	2	2	2
Subordination - Ballinger/Moonen Lake	Ballinger/Moonen Lake/Reservoir [Reservoir]	23	21	19	18	18	19
		<b>25</b>	<b>23</b>	<b>21</b>	<b>20</b>	<b>20</b>	<b>21</b>
<b>Irrigation, Runnels, Colorado (F)</b>							
Irrigation Conservation - Runnels County	DEMAND REDUCTION [Runnels]	155	311	373	373	373	373
		<b>155</b>	<b>311</b>	<b>373</b>	<b>373</b>	<b>373</b>	<b>373</b>
<b>Miles, Colorado (F)</b>							
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	27	43	45	49	53	59
Municipal Conservation - Miles	DEMAND REDUCTION [Runnels]	3	3	3	3	3	3
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	9	9	7	7	6	5
		<b>39</b>	<b>55</b>	<b>55</b>	<b>59</b>	<b>62</b>	<b>67</b>
<b>Millersview-Doole WSC, Colorado (F)</b>							
Municipal Conservation - Millersview-Doole WSC	DEMAND REDUCTION [Runnels]	2	2	2	2	2	2
Subordination - OH Ivie Non System Portion	OH Ivie Lake/Reservoir Non-System Portion [Reservoir]	9	0	0	0	1	10
Water Audits And Leak - Millersview-Doole WSC	DEMAND REDUCTION [Runnels]	11	11	11	11	11	11
		<b>22</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>14</b>	<b>23</b>
<b>Mining, Runnels, Colorado (F)</b>							
Mining Conservation - Runnels County	DEMAND REDUCTION [Runnels]	11	11	10	9	8	7
		<b>11</b>	<b>11</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>
<b>North Runnels WSC, Colorado (F)</b>							
BRA System Operation--Surplus	BRA System Operations Permit Supply [Reservoir]	72	0	0	0	0	0
Municipal Conservation - North Runnels WSC	DEMAND REDUCTION [Runnels]	4	4	4	4	4	4
Subordination - Ballinger/Moonen Lake	Ballinger/Moonen Lake/Reservoir [Reservoir]	11	10	10	10	10	11
Subordination - Winters Lake	Winters Lake/Reservoir [Reservoir]	75	76	77	77	77	78
West Texas Water Partnership (OH Ivie Non System Portion)	OH Ivie Lake/Reservoir Non-System Portion	0	69	64	63	63	63

Irrigation Conservation - Tom Green County	DEMAND REDUCTION [Tom Green]	2,125	4,249	5,099	5,099	5,099	5,099
Weather Modification	Weather Modification [Atmosphere]	2,007	2,007	2,007	2,007	2,007	2,007
		<b>4,132</b>	<b>6,256</b>	<b>7,106</b>	<b>7,106</b>	<b>7,106</b>	<b>7,106</b>
<b>Manufacturing, Tom Green, Colorado (F)</b>							
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	1	108	128	149	172	193
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	37	36	32	29	26	22
		<b>38</b>	<b>144</b>	<b>160</b>	<b>178</b>	<b>198</b>	<b>215</b>
<b>Millersview-Doole WSC, Colorado (F)</b>							
Municipal Conservation - Millersview-Doole WSC	DEMAND REDUCTION [Tom Green]	6	7	7	7	7	7
Subordination - OH Ivie Non System Portion	OH Ivie Lake/Reservoir Non-System Portion [Reservoir]	22	0	0	0	5	29
Water Audits And Leak - Millersview-Doole WSC	DEMAND REDUCTION [Tom Green]	28	29	29	30	31	32
		<b>56</b>	<b>36</b>	<b>36</b>	<b>37</b>	<b>43</b>	<b>68</b>
<b>Mining, Tom Green, Colorado (F)</b>							
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	2	3	4	4	4	5
Mining Conservation - Tom Green County	DEMAND REDUCTION [Tom Green]	44	45	47	47	48	49
		<b>46</b>	<b>48</b>	<b>51</b>	<b>51</b>	<b>52</b>	<b>54</b>
<b>San Angelo, Colorado (F)</b>							
Brush Control - San Angelo	San Angelo Lakes Lake/Reservoir System [Reservoir]	90	90	90	90	90	90
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	7,723	7,518	7,447	7,365	7,277	7,187
Hickory Well Field Expansion in McCulloch County - San Angelo	Hickory Aquifer [McCulloch]	0	1,040	3,040	3,040	3,040	3,040
Municipal Conservation - San Angelo	DEMAND REDUCTION [Tom Green]	459	532	558	592	629	668
Subordination - OH Ivie Non System Portion	OH Ivie Lake/Reservoir Non-System Portion [Reservoir]	329	0	0	0	0	0
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	1,547	1,460	1,375	1,288	1,203	1,117
West Texas Water Partnership (Groundwater)	Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers [Pecos]	0	8,191	8,330	8,470	8,609	8,749
		<b>10,148</b>	<b>18,831</b>	<b>20,840</b>	<b>20,845</b>	<b>20,848</b>	<b>20,851</b>
<b>Tom Green County FWSD 3, Colorado (F)</b>							
Municipal Conservation - Tom Green County FWSD 3	DEMAND REDUCTION [Tom Green]	3	4	4	4	5	5
		<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>5</b>
<b>Sum of Projected Water Management Strategies (acre-feet)</b>		<b>14,784</b>	<b>25,751</b>	<b>28,664</b>	<b>28,733</b>	<b>28,811</b>	<b>28,910</b>

		[Reservoir]					
		162	159	155	154	154	156
<b>Winters, Colorado (F)</b>							
BRA System Operation--Surplus	BRA System Operations Permit Supply [Reservoir]	109	0	0	0	0	0
Municipal Conservation - Winters	DEMAND REDUCTION [Runnels]	17	12	9	9	9	9
Subordination - Winters Lake	Winters Lake/Reservoir [Reservoir]	100	99	98	98	98	97
West Texas Water Partnership (OH Ivie Non System Portion)	OH Ivie Lake/Reservoir Non-System Portion [Reservoir]	0	112	118	119	119	119
		<b>226</b>	<b>223</b>	<b>225</b>	<b>226</b>	<b>226</b>	<b>225</b>
<b>Sum of Projected Water Management Strategies (acre-feet)</b>		<b>1,456</b>	<b>1,568</b>	<b>1,624</b>	<b>1,623</b>	<b>1,631</b>	<b>1,684</b>

## TOM GREEN COUNTY

### WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
<b>Concho Rural Water, Colorado (F)</b>							
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	74	83	86	91	95	98
Municipal Conservation - Concho Rural WSC	DEMAND REDUCTION [Tom Green]	20	21	22	23	24	24
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	8	7	6	5	4	4
		<b>102</b>	<b>111</b>	<b>114</b>	<b>119</b>	<b>123</b>	<b>126</b>
<b>County-Other, Tom Green, Colorado (F)</b>							
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	29	40	43	49	54	58
Subordination - Mountain Creek Reservoir	Mountain Creek Lake/Reservoir [Reservoir]	70	70	70	70	70	70
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	22	18	17	15	13	11
		<b>121</b>	<b>128</b>	<b>130</b>	<b>134</b>	<b>137</b>	<b>139</b>
<b>DADS Supported Living Center, Colorado (F)</b>							
Municipal Conservation - Dads Supported Living Center	DEMAND REDUCTION [Tom Green]	1	1	1	1	1	1
		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Goodfellow Air Force Base, Colorado (F)</b>							
Concho River Water Project - San Angelo	Indirect Reuse [Tom Green]	85	141	173	210	253	301
Municipal Conservation - Goodfellow Air Force Base	DEMAND REDUCTION [Tom Green]	8	9	9	10	10	11
Subordination - San Angelo System	San Angelo Lakes Lake/Reservoir System [Reservoir]	44	42	40	38	35	33
		<b>137</b>	<b>192</b>	<b>222</b>	<b>258</b>	<b>298</b>	<b>345</b>
<b>Irrigation, Tom Green, Colorado (F)</b>							

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Lipan-Kickapoo Water Conservation District

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