

AGENDA
Lower Colorado Regional Water Planning Group
Population and Demand Committee Meeting
November 2, 2022

INTERA Incorporated Offices
9600 Great Hills Plaza, Suite 300W
Austin, TX 78759
1:00 P.M.

Regular Meeting:

1. Call to Order, Introductions and Roll Call – Lauri Gillam
2. Receive public comments (Limit 3 minutes per person)
3. Review Draft Irrigation Projections. Consider request(s) for additional information and/or presentations as needed.
4. Review Draft Mining Projections. Consider request(s) for additional information and/or presentations as needed.
5. Review planning cycle schedule. Consider and plan for future meetings of Population and Demand Committee, as needed. Consider report(s) to and request(s) of the full Region K Regional Water Planning Group.
6. New / Other Business
7. Receive public comments (Limit 3 minutes per person)
8. Adjourn

Population and Water Demand Subcommittee Meeting: 11/02/2022

Agenda Items 3 and 4

3. Review Draft Irrigation Projections

4. Review Draft Mining Projections

Bonus (if time permits): Continue discussion of Draft Livestock, Manufacturing and Steam Electric demand projections



Agenda Items 3 and 4

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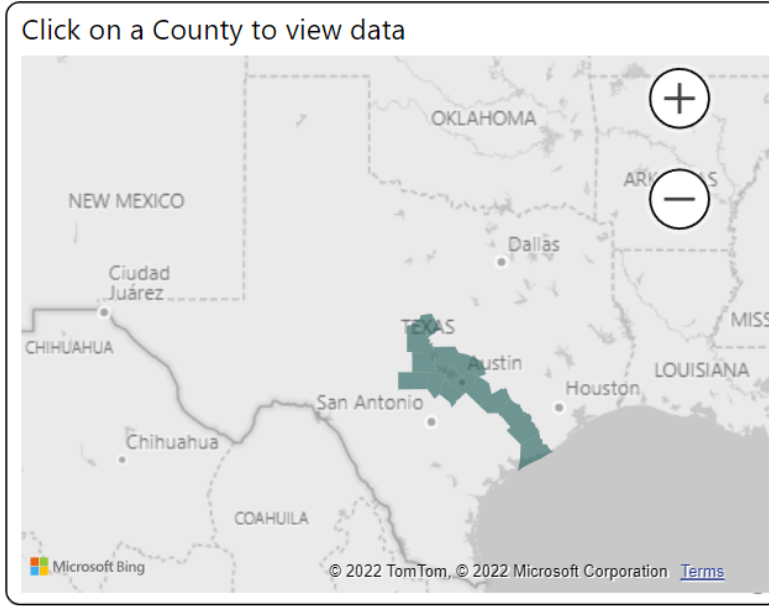




Reset filters to Texas

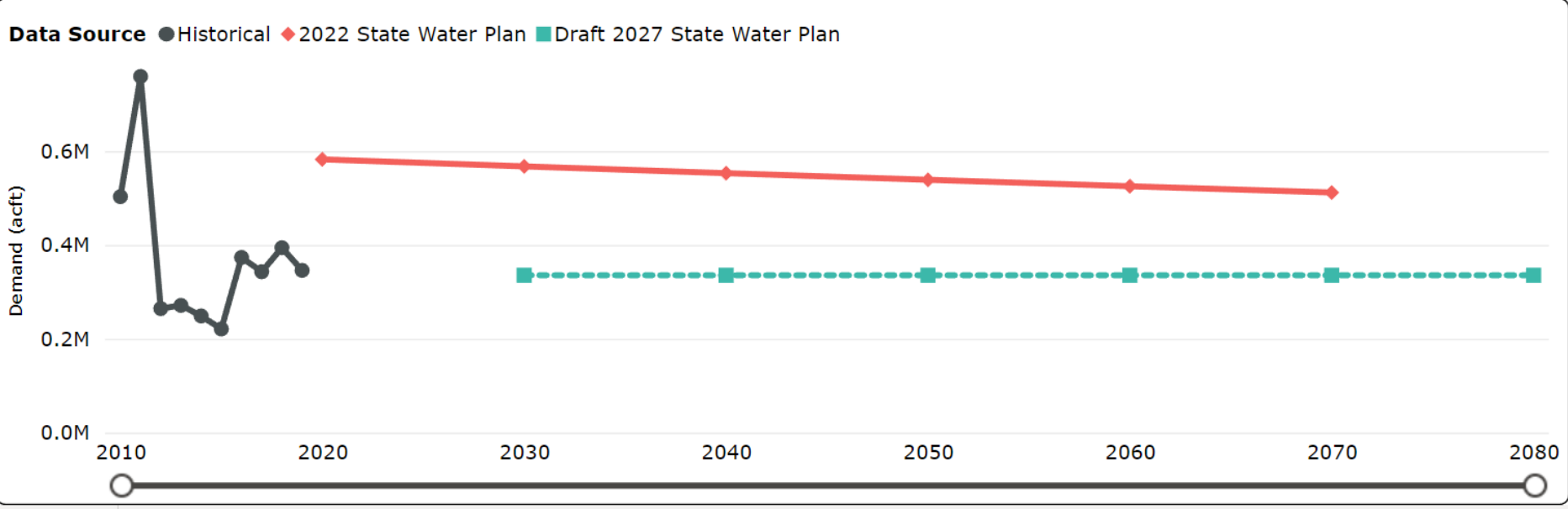
Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for All County in Region K

- Select Region
- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K**
- L
- M



Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	271,305		
2014	248,680		
2015	221,015		
2016	373,431		
2017	343,006		
2018	394,097		
2019	345,823		
2020		582,407	
2030		567,509	335,474
2040		553,013	335,474
2050		538,906	335,474
2060		525,179	335,474
2070		511,822	335,474
2080			335,474



Draft Irrigation Demand Projections for Region K

	Historical Water Use Estimates					2021 RWP Projections						2026 DRAFT RWP Projections					
	2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
Bastrop	3,204	2,872	5,093	5,571	7,066	4,280	4,280	4,280	4,280	4,280	4,280	4,761	4,761	4,761	4,761	4,761	4,761
Blanco	1,339	1,398	2,152	2,342	2,338	1,327	1,327	1,327	1,327	1,327	1,327	1,914	1,914	1,914	1,914	1,914	1,914
Burnet	2,020	1,733	2,065	2,022	2,114	1,498	1,498	1,498	1,498	1,498	1,498	1,991	1,991	1,991	1,991	1,991	1,991
Colorado	68,956	104,470	94,822	111,140	99,079	173,112	168,455	163,924	159,514	155,223	151,048	95,693	95,693	95,693	95,693	95,693	95,693
Fayette	472	711	859	732	842	828	828	828	828	828	828	723	723	723	723	723	723
Gillespie	2,564	2,386	2,463	2,450	2,427	2,383	2,383	2,383	2,383	2,383	2,383	2,458	2,458	2,458	2,458	2,458	2,458
Hays	433	346	428	320	386	525	525	525	525	525	525	383	383	383	383	383	383
Llano	599	683	568	677	715	998	998	998	998	998	998	648	648	648	648	648	648
Matagorda	43,251	107,370	88,879	104,949	90,304	191,588	186,434	181,419	176,539	171,790	167,169	86,951	86,951	86,951	86,951	86,951	86,951
Mills	5,934	4,622	4,036	3,021	4,964	4,743	4,743	4,743	4,743	4,743	4,743	4,515	4,515	4,515	4,515	4,515	4,515
San Saba	7,012	7,729	7,501	9,846	8,348	7,199	7,199	7,199	7,199	7,199	7,199	8,087	8,087	8,087	8,087	8,087	8,087
Travis	4,870	2,177	2,111	2,289	2,399	4,816	4,816	4,816	4,816	4,816	4,816	2,769	2,769	2,769	2,769	2,769	2,769
Wharton	80,361	136,934	132,029	148,738	124,841	189,110	184,023	179,073	174,256	169,569	165,008	124,581	124,581	124,581	124,581	124,581	124,581
Williamson	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	221,015	373,431	343,006	394,097	345,823	582,407	567,509	553,013	538,906	525,179	511,822	335,474	335,474	335,474	335,474	335,474	335,474

2020 Historical Water Use shown on graphs but was not present in spreadsheet from TWDB. I will check on this.

<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



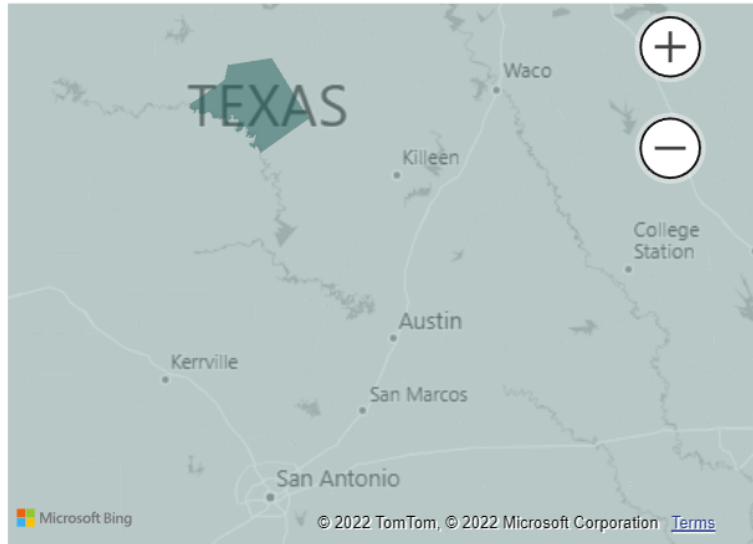


Reset filters to Texas

Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for MILLS County in Region K

Select Region
K

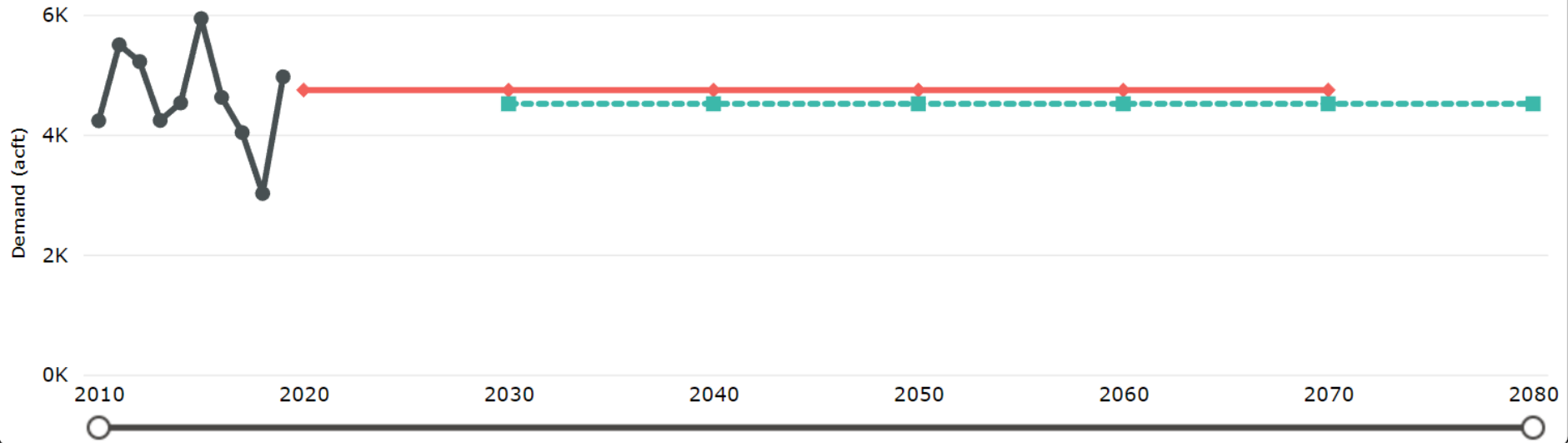
Click on a County to view data



Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	4,238		
2014	4,529		
2015	5,934		
2016	4,622		
2017	4,036		
2018	3,021		
2019	4,964		
2020		4,743	
2030		4,743	4,515
2040		4,743	4,515
2050		4,743	4,515
2060		4,743	4,515
2070		4,743	4,515
2080			4,515

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan



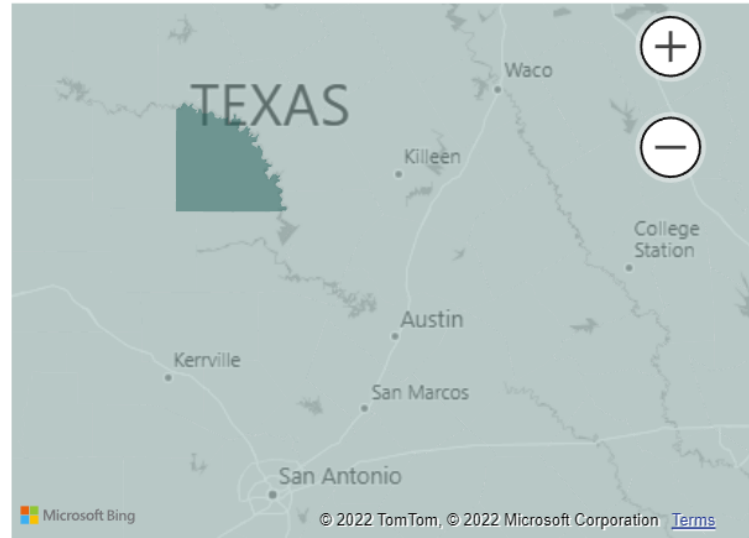


Reset filters to Texas

Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for SAN SABA County in Region K

Select Region
K

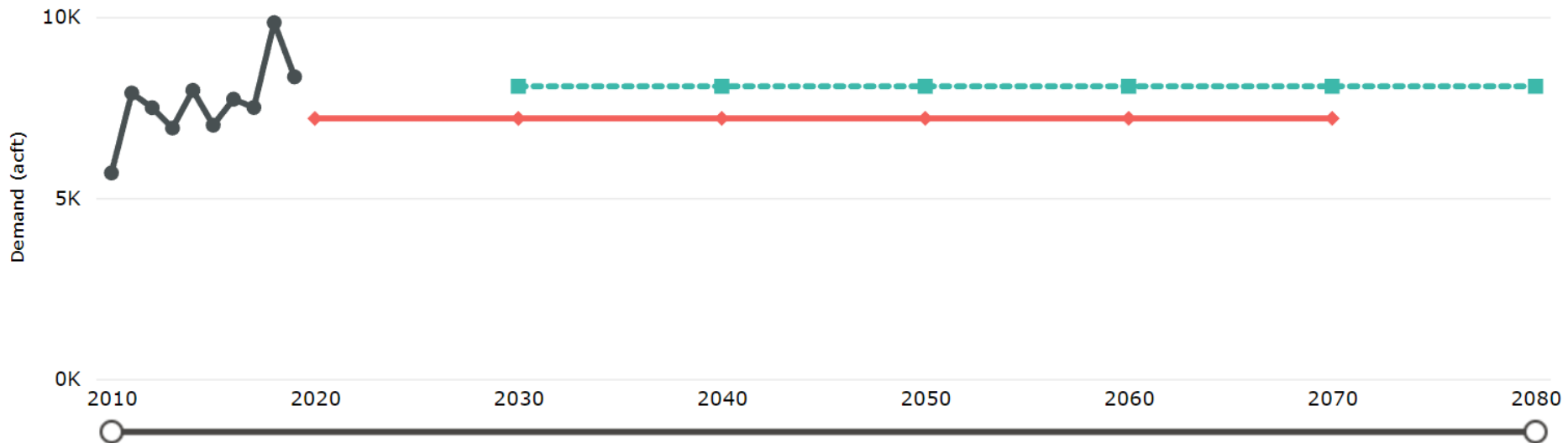
Click on a County to view data



Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	6,933		
2014	7,975		
2015	7,012		
2016	7,729		
2017	7,501		
2018	9,846		
2019	8,348		
2020		7,199	
2030		7,199	8,087
2040		7,199	8,087
2050		7,199	8,087
2060		7,199	8,087
2070		7,199	8,087
2080			8,087

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan





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Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for LLANO County in Region K

Select Region

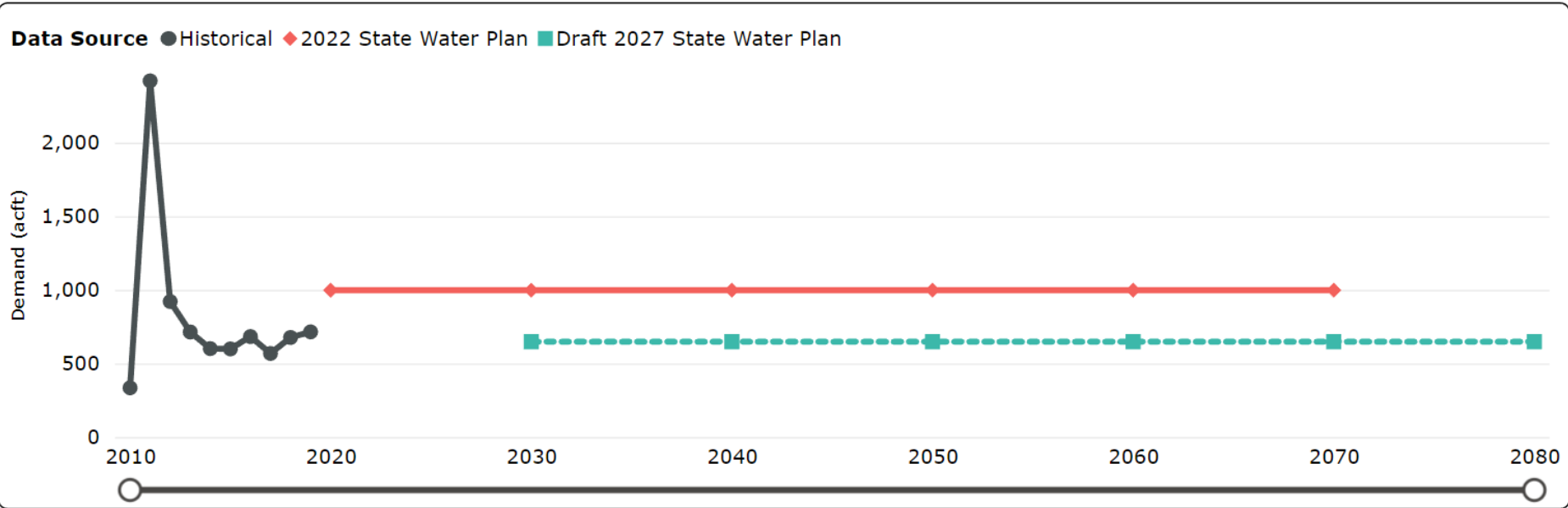
K

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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	714		
2014	601		
2015	599		
2016	683		
2017	568		
2018	677		
2019	715		
2020		998	
2030		998	648
2040		998	648
2050		998	648
2060		998	648
2070		998	648
2080			648





Reset filters to Texas

Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for GILLESPIE County in Region K

Select Region

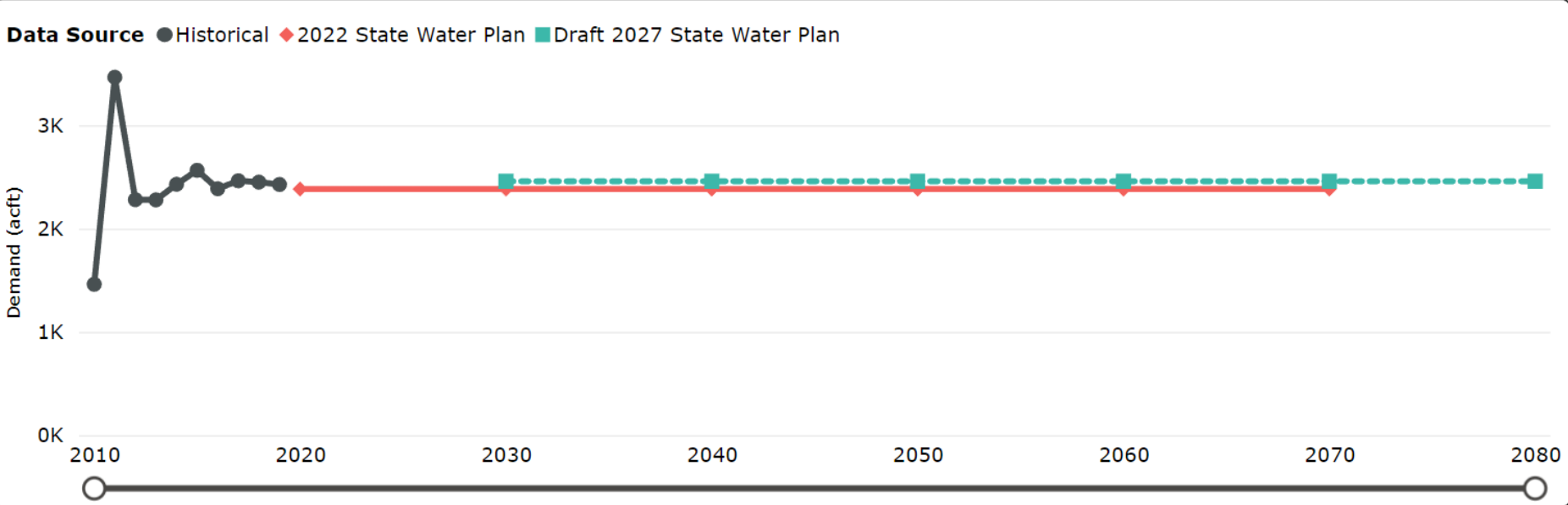
K

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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	2,278		
2014	2,429		
2015	2,564		
2016	2,386		
2017	2,463		
2018	2,450		
2019	2,427		
2020		2,383	
2030		2,383	2,458
2040		2,383	2,458
2050		2,383	2,458
2060		2,383	2,458
2070		2,383	2,458
2080			2,458

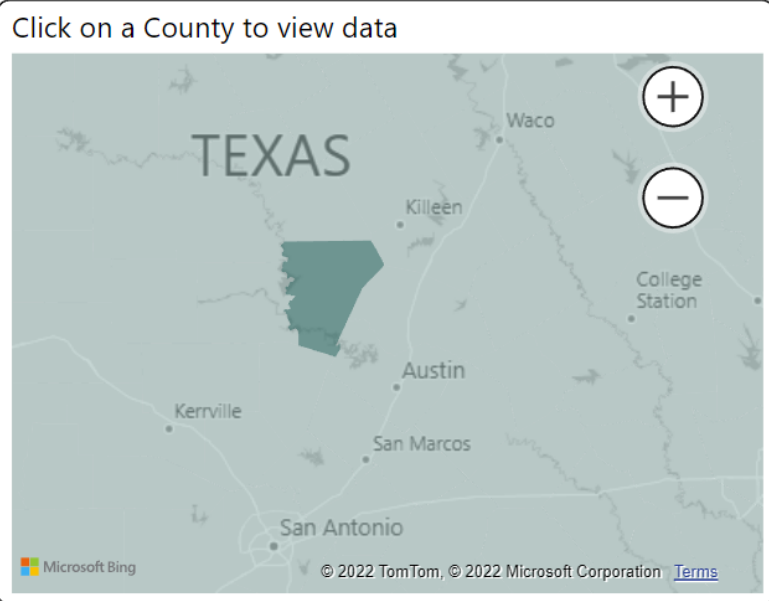




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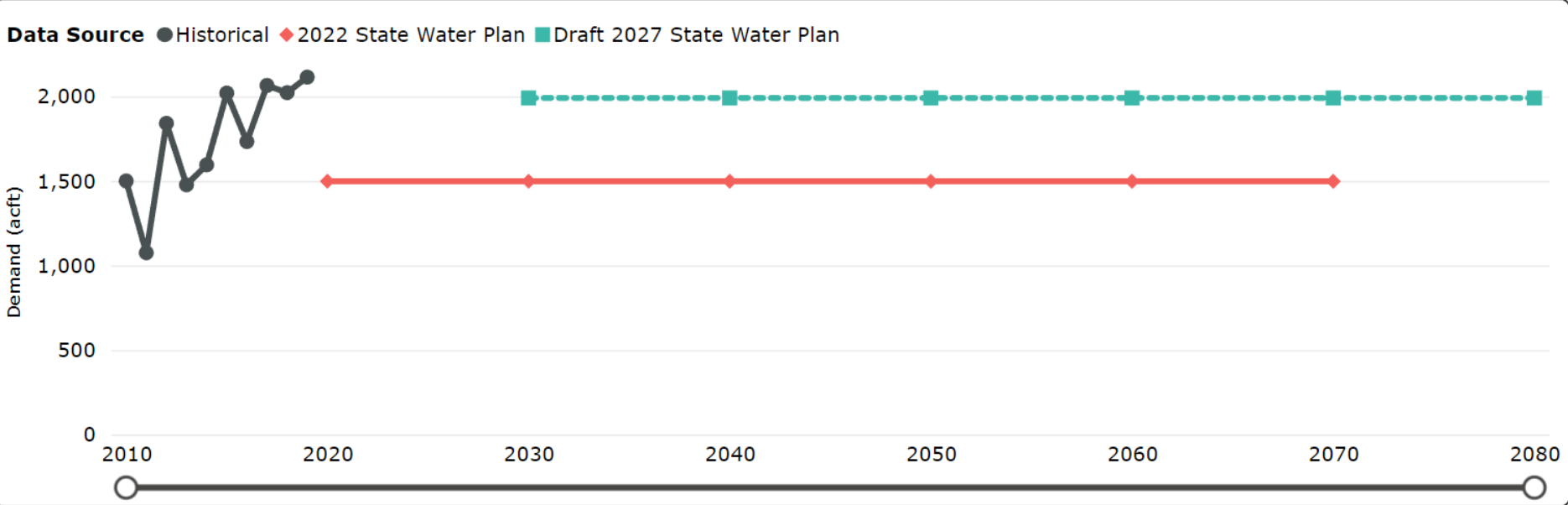
Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for BURNET County in Region K

Select Region
K



Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	1,477		
2014	1,595		
2015	2,020		
2016	1,733		
2017	2,065		
2018	2,022		
2019	2,114		
2020		1,498	
2030		1,498	1,991
2040		1,498	1,991
2050		1,498	1,991
2060		1,498	1,991
2070		1,498	1,991
2080			1,991





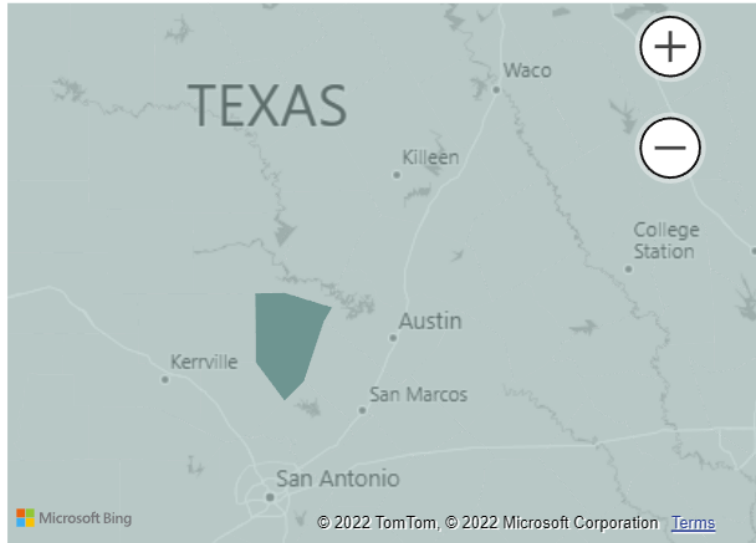
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Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for BLANCO County in Region K

Select Region

K

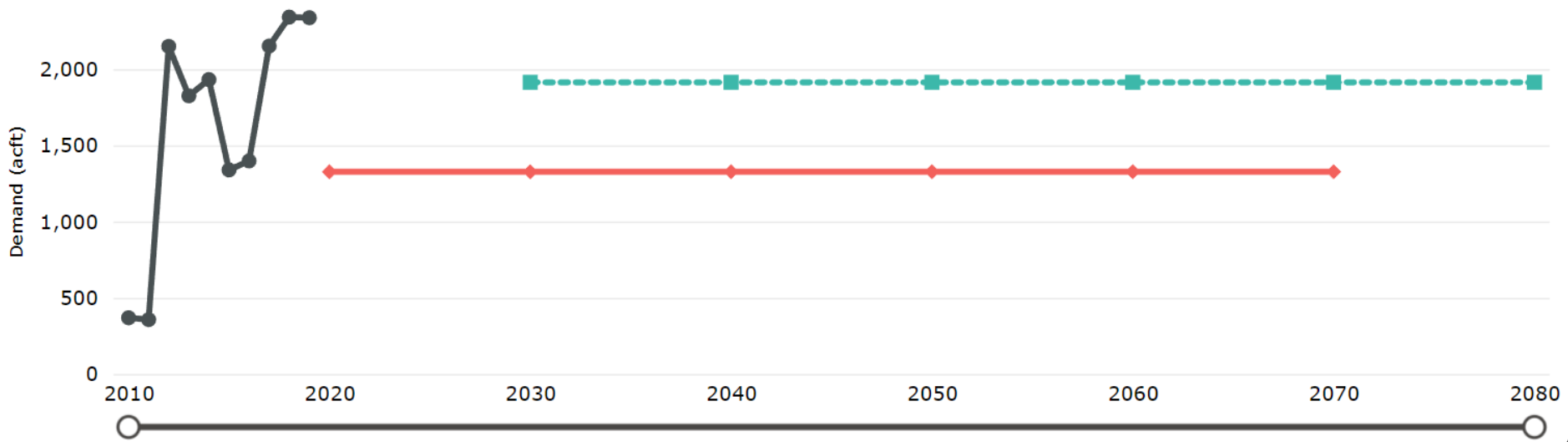
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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	1,825		
2014	1,932		
2015	1,339		
2016	1,398		
2017	2,152		
2018	2,342		
2019	2,338		
2020		1,327	
2030		1,327	1,914
2040		1,327	1,914
2050		1,327	1,914
2060		1,327	1,914
2070		1,327	1,914
2080			1,914

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan





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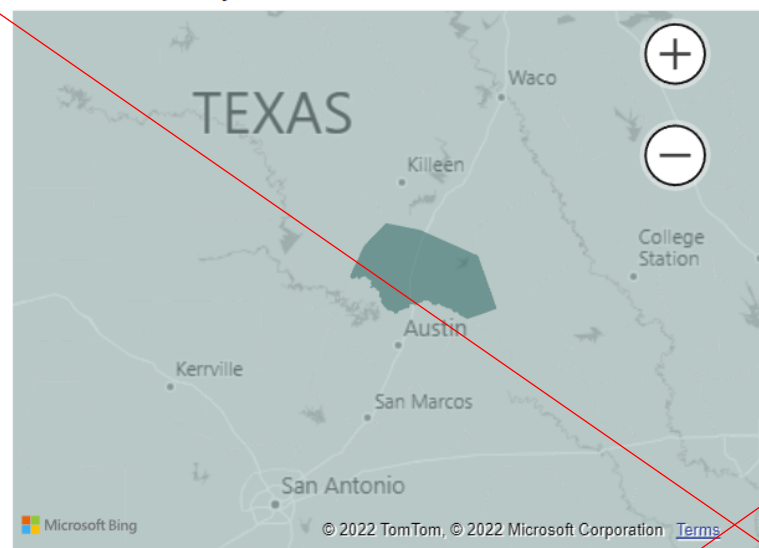
Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for WILLIAMSON County in **Region All**

Select Region

G

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Click on a County to view data

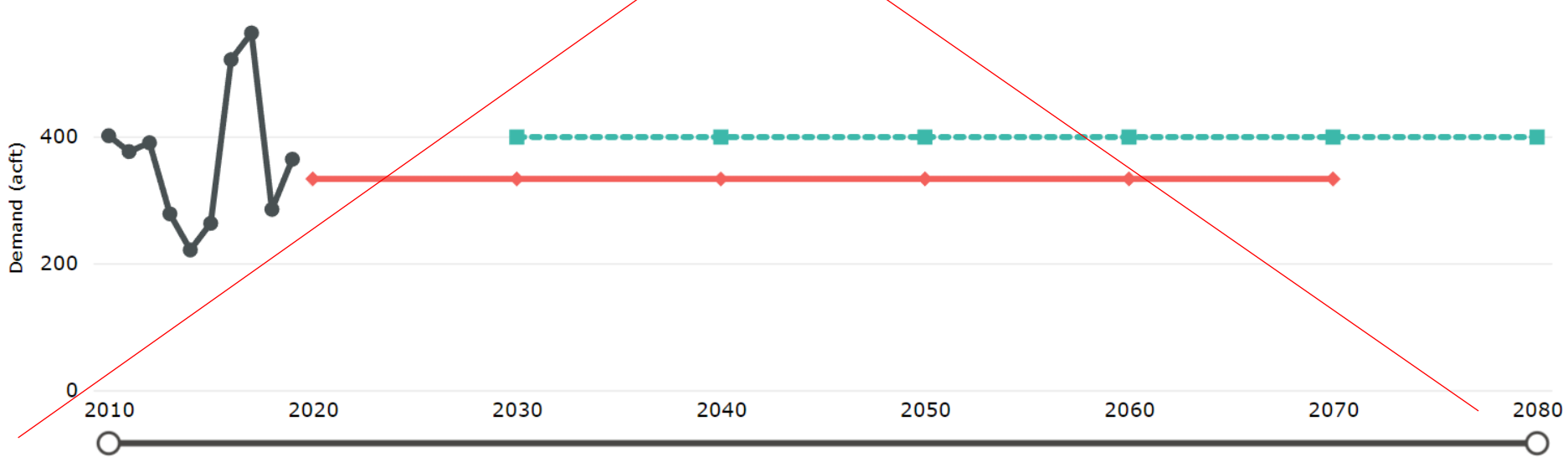


Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	278		
2014	221		
2015	263		
2016	521		
2017	563		
2018	285		
2019	364		
2020		333	
2030		333	399
2040		333	399
2050		333	399
2060		333	399
2070		333	399
2080			399

Zero demand in Region K

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan

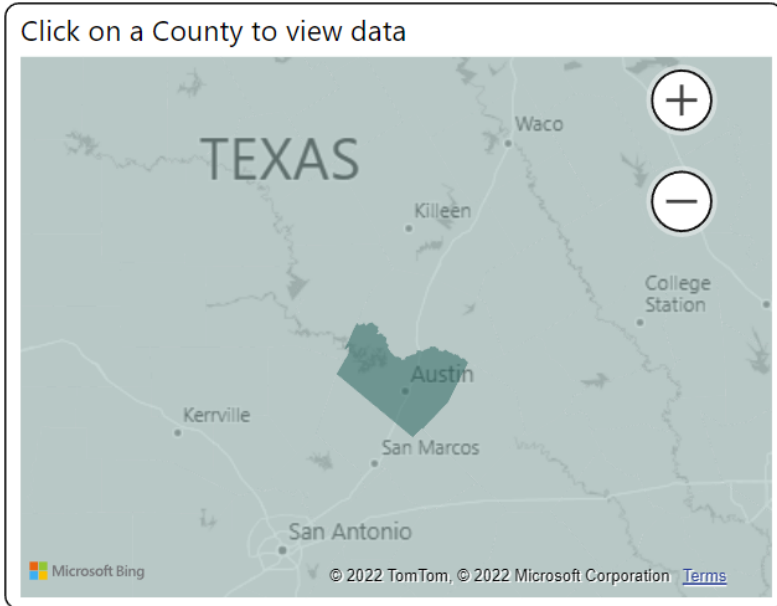




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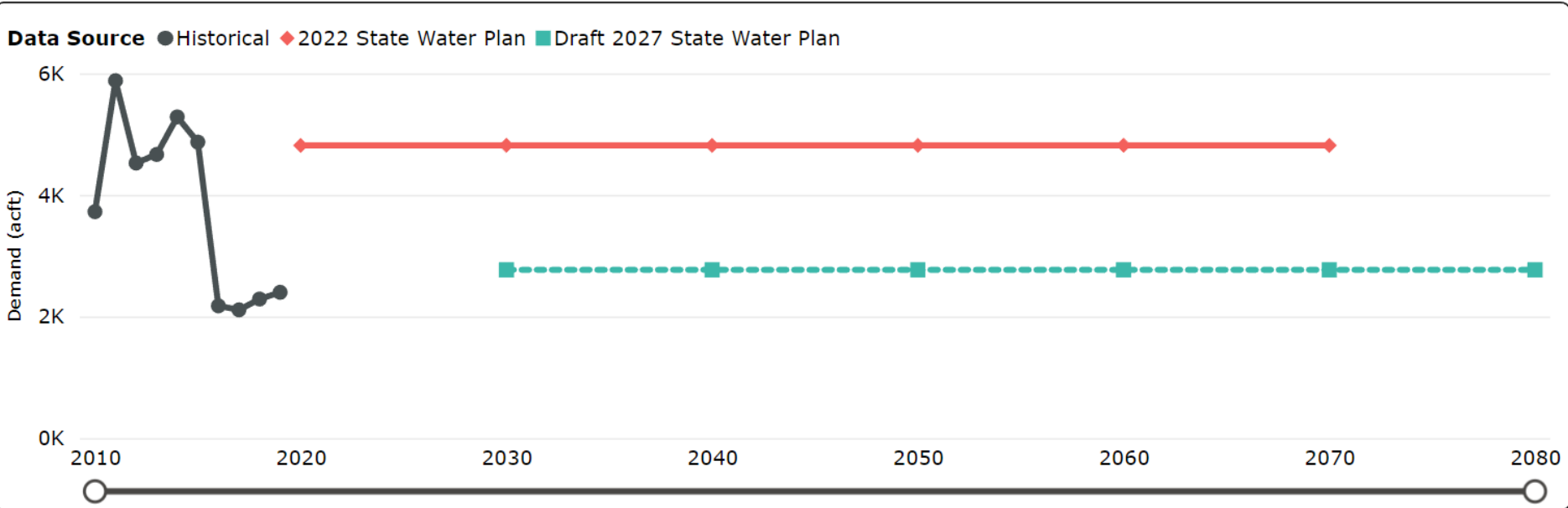
Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for TRAVIS County in Region K

Select Region
K



Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	4,667		
2014	5,284		
2015	4,870		
2016	2,177		
2017	2,111		
2018	2,289		
2019	2,399		
2020		4,816	
2030		4,816	2,769
2040		4,816	2,769
2050		4,816	2,769
2060		4,816	2,769
2070		4,816	2,769
2080			2,769

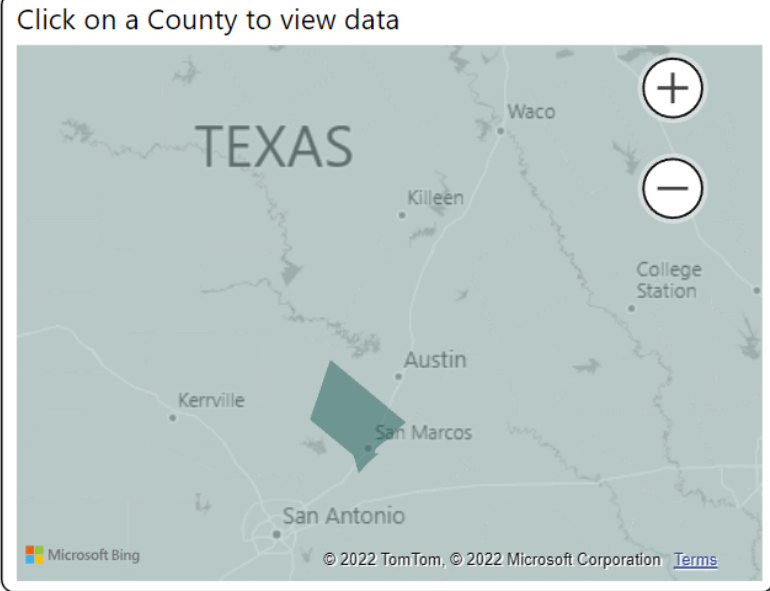




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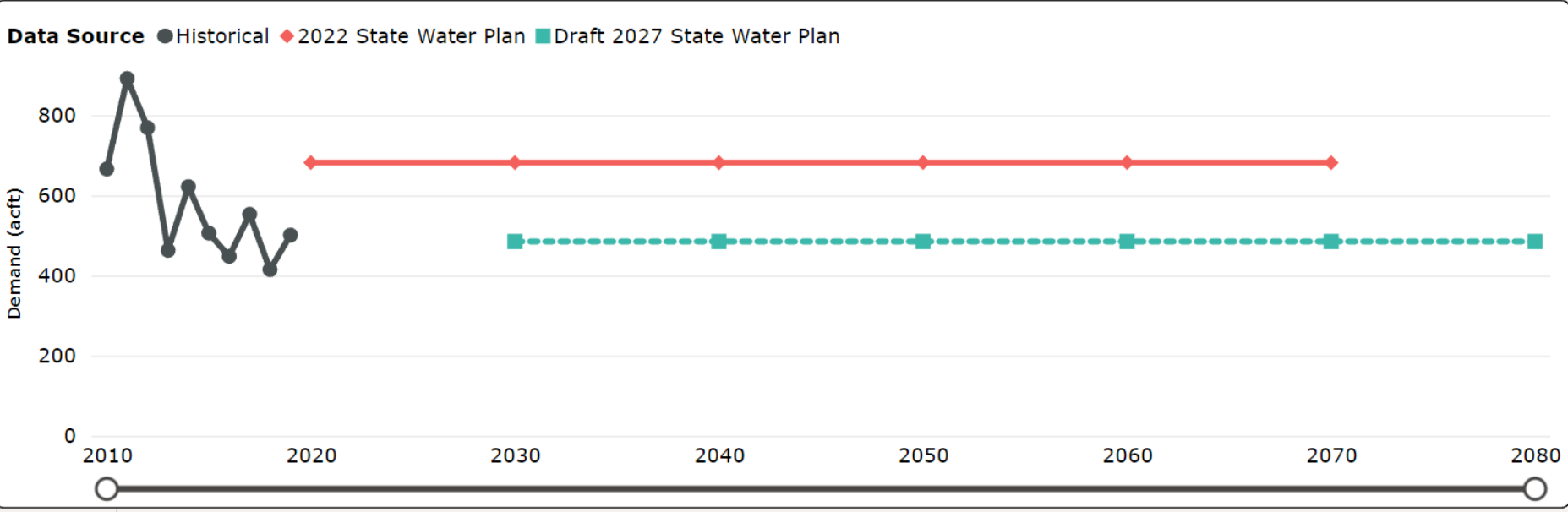
Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for HAYS County in **Region All**

Select Region
K
L



Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	463		
2014	622		
2015	506		
2016	448		
2017	553		
2018	415		
2019	501		
2020		682	
2030		682	485
2040		682	485
2050		682	485
2060		682	485
2070		682	485
2080			485



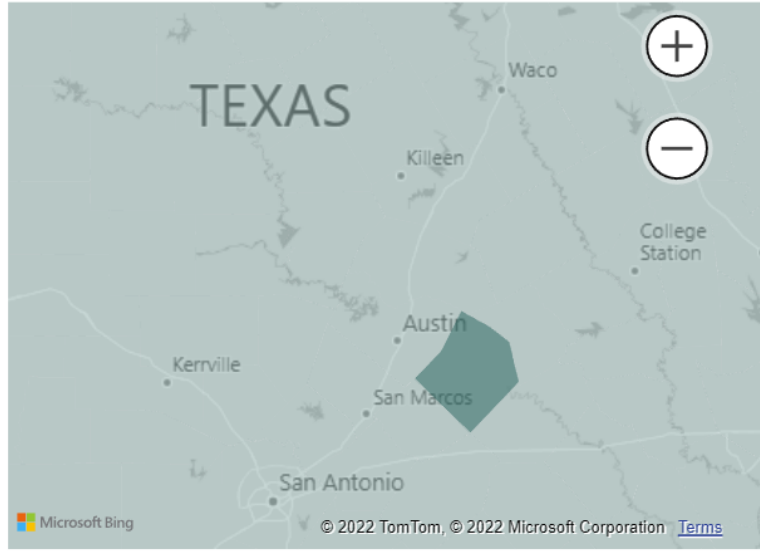


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Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for BASTROP County in Region K

Select Region
K

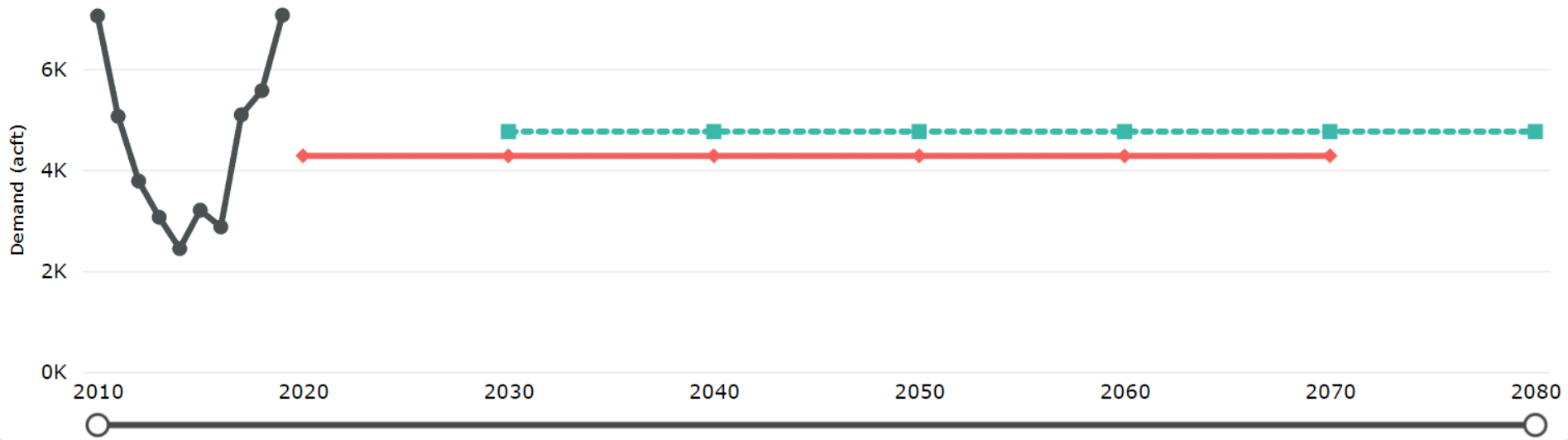
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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	3,064		
2014	2,444		
2015	3,204		
2016	2,872		
2017	5,093		
2018	5,571		
2019	7,066		
2020		4,280	
2030		4,280	4,761
2040		4,280	4,761
2050		4,280	4,761
2060		4,280	4,761
2070		4,280	4,761
2080			4,761

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan





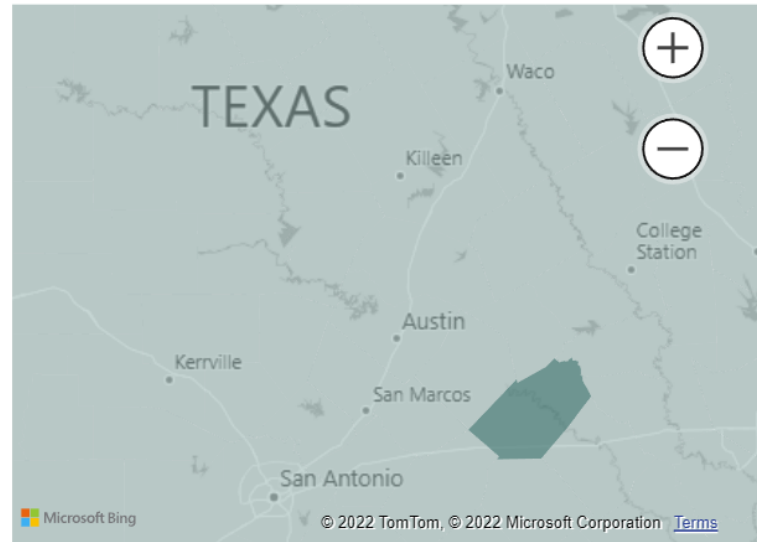
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Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for FAYETTE County in Region K

Select Region

K

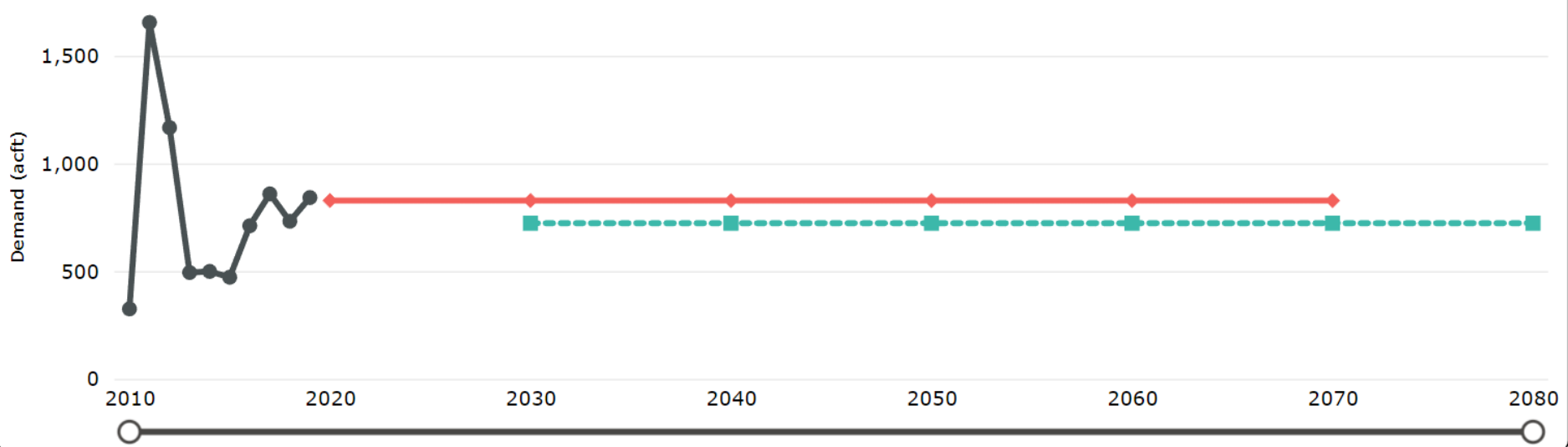
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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	494		
2014	499		
2015	472		
2016	711		
2017	859		
2018	732		
2019	842		
2020		828	
2030		828	723
2040		828	723
2050		828	723
2060		828	723
2070		828	723
2080			723

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan





Reset filters to Texas

Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for COLORADO County in Region K

Select Region

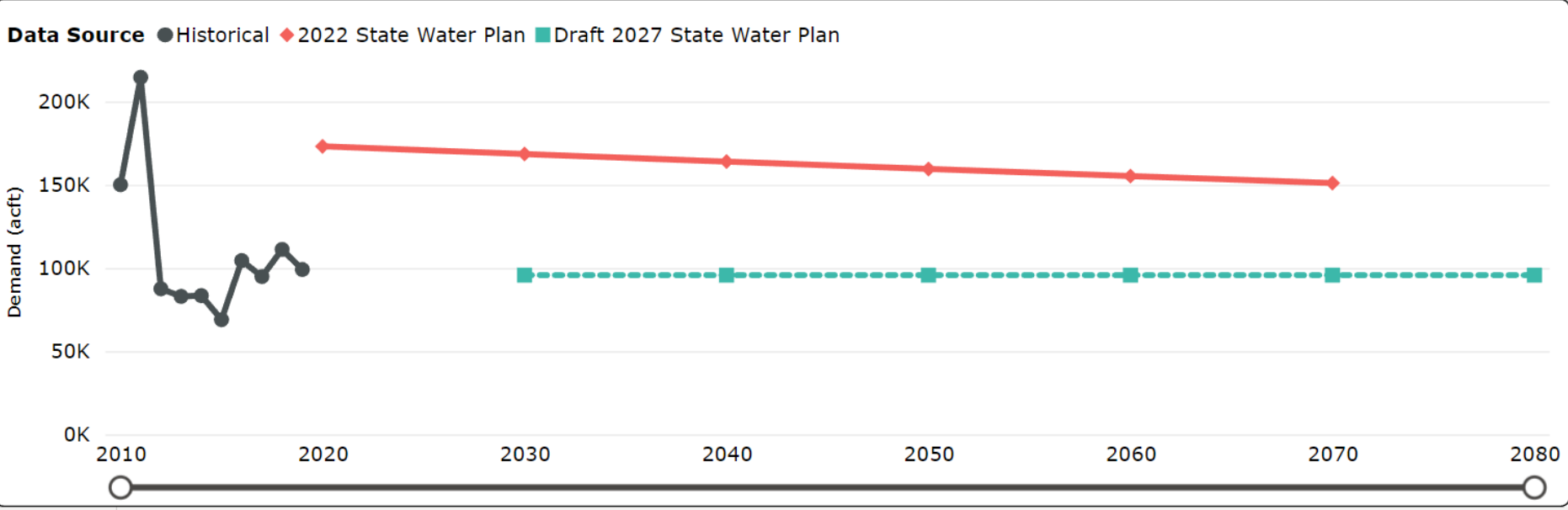
K

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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	82,916		
2014	83,390		
2015	68,956		
2016	104,470		
2017	94,822		
2018	111,140		
2019	99,079		
2020		173,112	
2030		168,455	95,693
2040		163,924	95,693
2050		159,514	95,693
2060		155,223	95,693
2070		151,048	95,693
2080			95,693





Reset filters to Texas

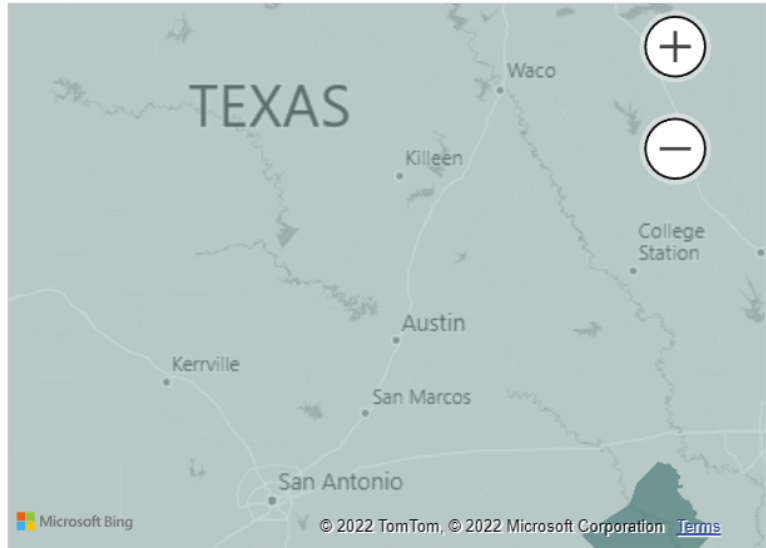
Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for WHARTON County in **Region All**

Select Region

K

P

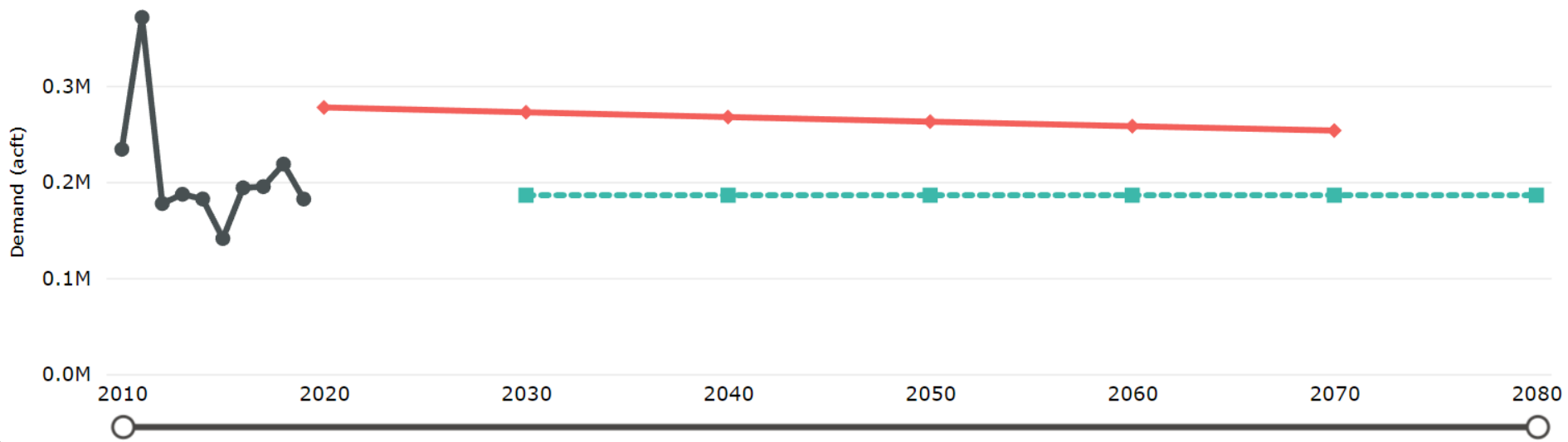
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Historical and Projected Demands (acre-feet)

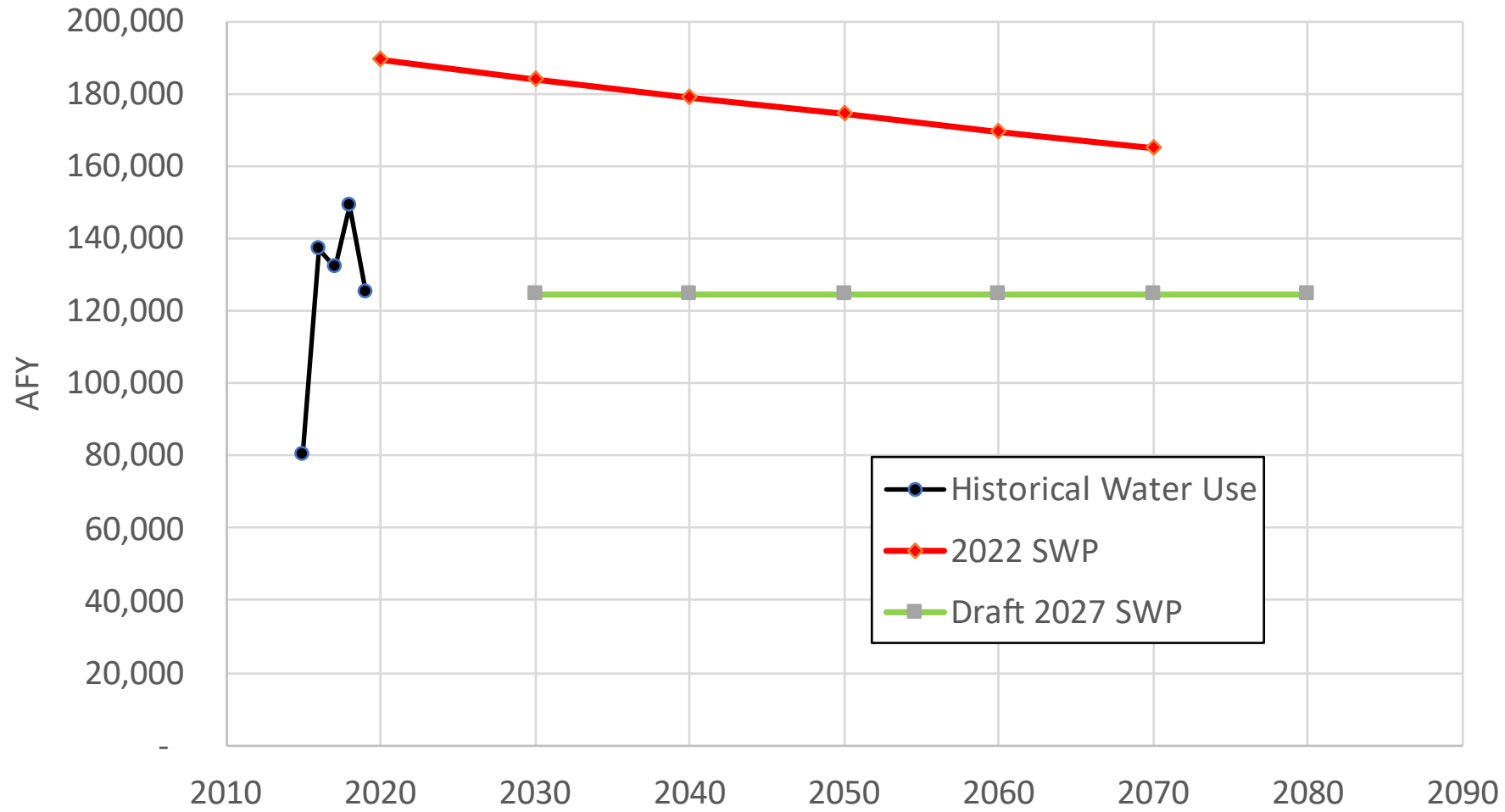
Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	187,187		
2014	182,301		
2015	141,120		
2016	193,878		
2017	195,106		
2018	218,556		
2019	182,223		
2020		277,556	
2030		272,469	186,177
2040		267,519	186,177
2050		262,702	186,177
2060		258,015	186,177
2070		253,454	186,177
2080			186,177

Data Source ● Historical ◆ 2022 State Water Plan ■ Draft 2027 State Water Plan



Region K only

Irrigation: Wharton County





Reset filters to Texas

Irrigation Historical Water Use Estimates and Projected Demands in the 2022 State Water Plan and DRAFT 2027 State Water Plan for MATAGORDA County in Region K

Select Region

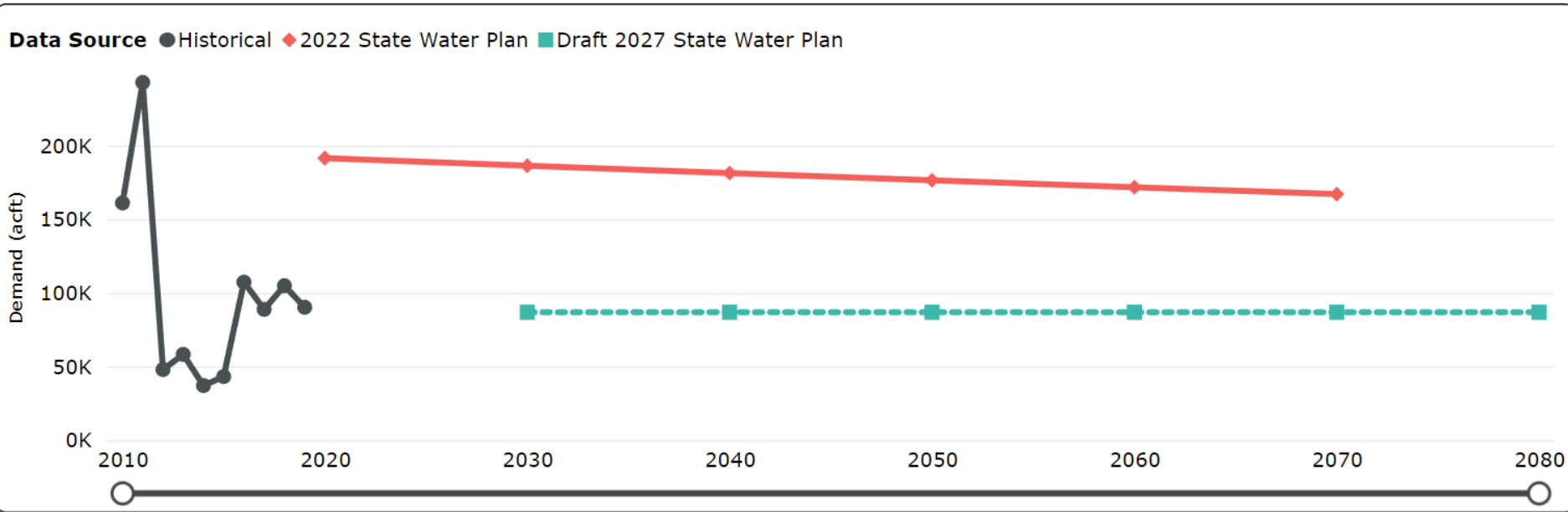
K

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Historical and Projected Demands (acre-feet)

Year	Historical	2022 State Water Plan	Draft 2027 State Water Plan
2013	58,303		
2014	37,122		
2015	43,251		
2016	107,370		
2017	88,879		
2018	104,949		
2019	90,304		
2020		191,588	
2030		186,434	86,951
2040		181,419	86,951
2050		176,539	86,951
2060		171,790	86,951
2070		167,169	86,951
2080			86,951



Agenda Items 3 and 4

3. Review Draft Irrigation Projections

4. Review Draft Mining Projections

Bonus (if time permits): Continue discussion of Draft Livestock, Manufacturing and Steam Electric demand projections



Texas Mining Historical and Projected Water Use



Select Region

K

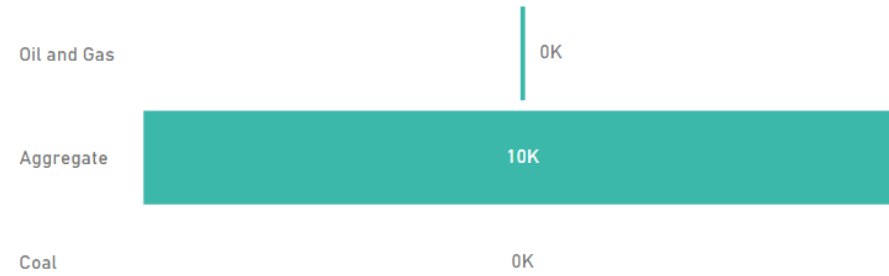
Select County

All

2030 Mining Water Use by Type (ACFT)

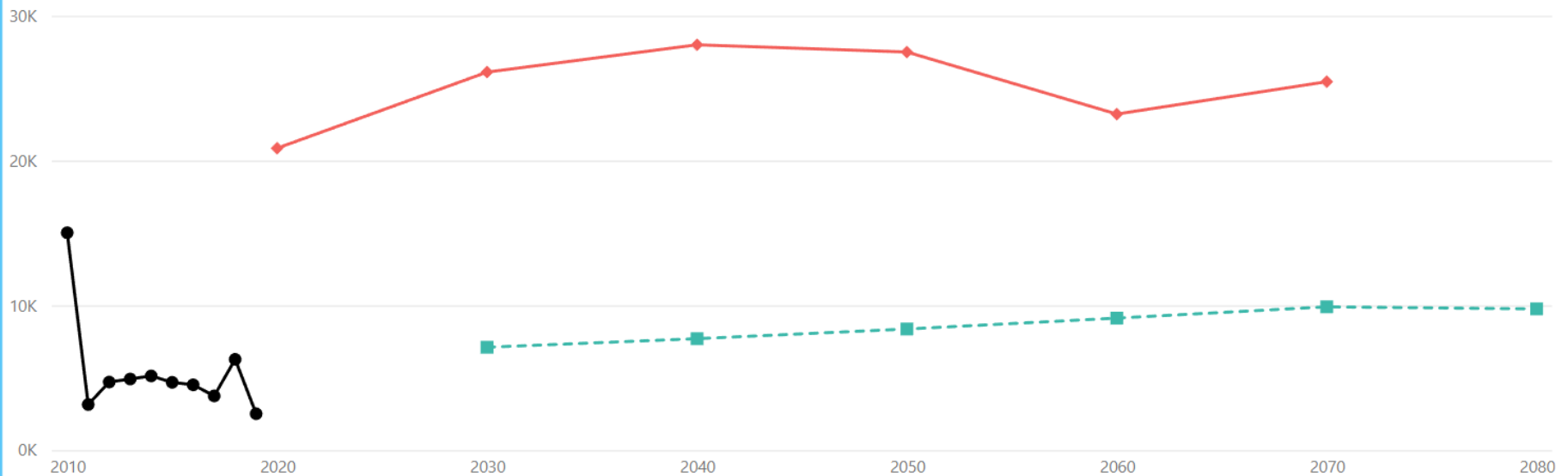


2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



Draft Mining Demand Projections for Region K

	Historical Water Use Estimates					2021 RWP Projections						2026 DRAFT RWP Projections					
	2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
Bastrop	44	22	74	47	269	2,884	6,813	7,498	5,998	399	476	388	467	567	694	852	1,050
Blanco	-	-	-	-	4	5	5	5	5	5	5	9	9	10	10	10	10
Burnet	50	88	88	86	195	4,490	5,412	6,379	7,255	8,263	9,412	408	460	510	554	593	625
Colorado	4,009	4,009	3,056	5,339	471	5,325	5,378	5,433	5,487	5,542	5,597	2,773	2,857	2,977	3,078	3,176	3,263
Fayette	269	121	170	484	943	2,526	2,032	1,465	918	359	350	934	934	934	934	934	2
Gillespie	5	4	6	8	16	4	4	4	4	4	4	19	20	21	23	24	25
Hays	300	264	345	303	301	845	1,075	1,361	1,445	1,654	1,893	115	139	161	194	230	269
Llano	-	-	-	-	239	3	3	3	3	3	3	251	250	246	254	262	271
Matagorda	1	-	1	-	-	96	100	75	55	35	22	1	1	1	1	1	1
Mills	-	-	-	-	-	4	4	4	4	4	4	108	111	115	120	124	130
San Saba	-	-	-	-	-	1,088	1,093	944	900	864	838	-	-	-	-	-	-
Travis	-	-	-	-	71	3,502	4,108	4,762	5,374	6,046	6,817	551	622	676	722	772	830
Wharton	2	1	-	-	-	71	74	55	41	26	17	2	2	2	2	2	2
Williamson	-	-	-	-	2	5	3	3	3	3	3	1,544	1,823	2,142	2,530	2,914	3,270
Total	4,680	4,509	3,740	6,267	2,511	20,848	26,104	27,991	27,492	23,207	25,441	7,103	7,695	8,362	9,116	9,894	9,748

<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



Texas Mining Historical and Projected Water Use



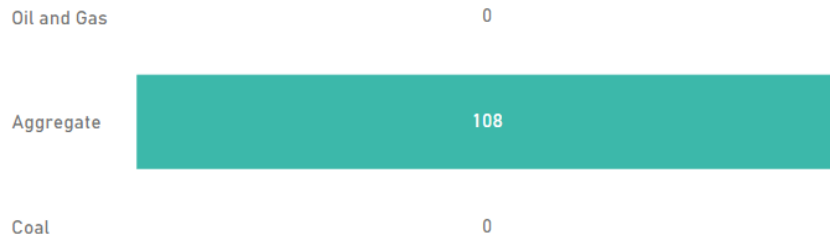
Select Region

K

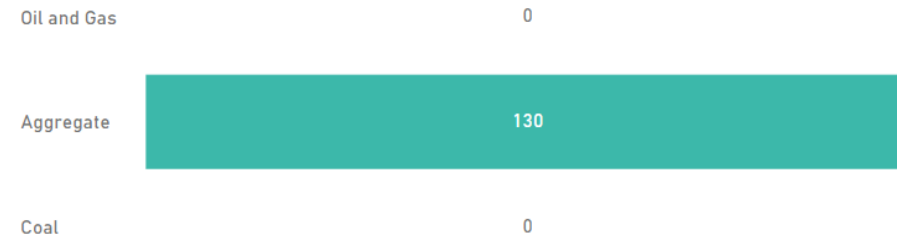
Select County

MILLS

2030 Mining Water Use by Type (ACFT)

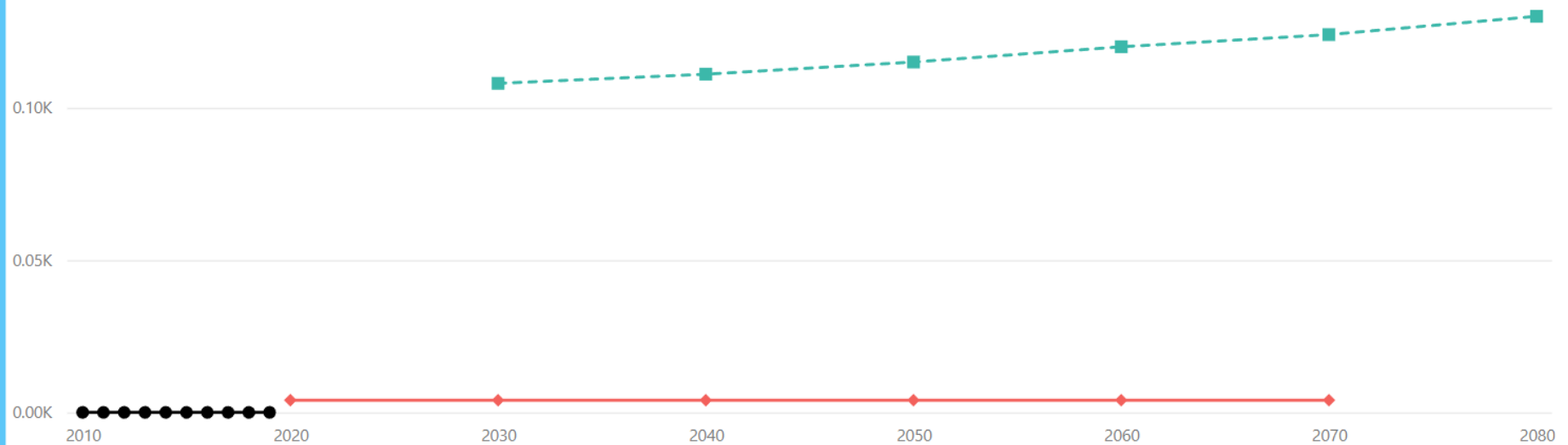


2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



Texas Mining Historical and Projected Water Use



Select Region

Select County

2030 Mining Water Use by Type (ACFT)

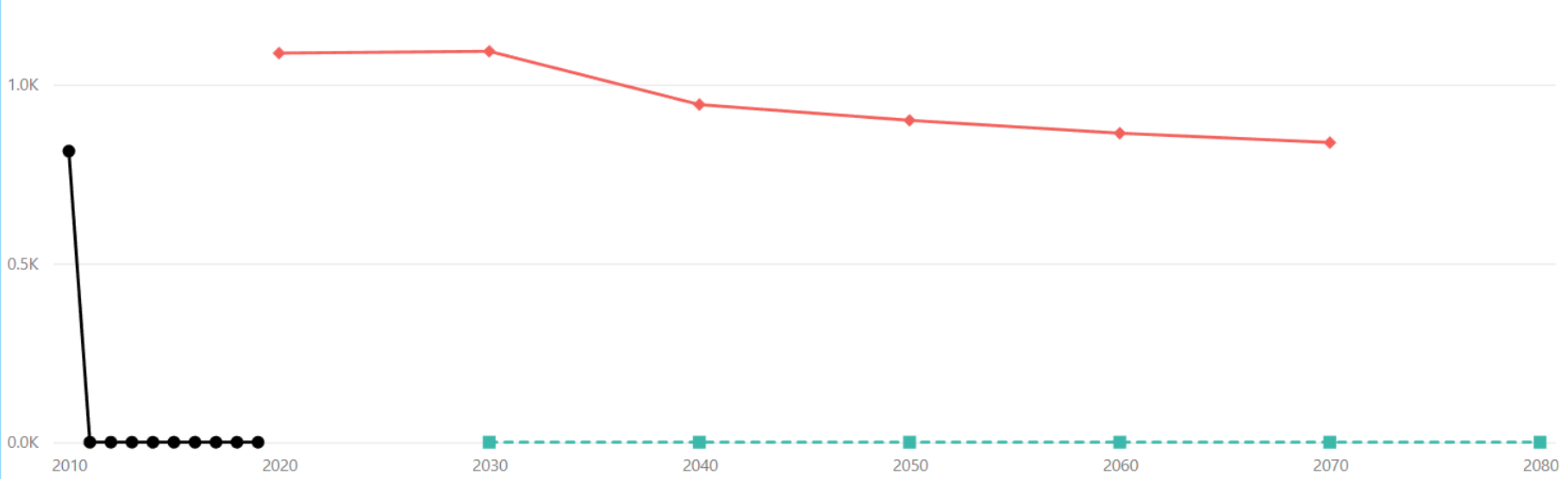
Oil and Gas	0
Aggregate	0
Coal	0

2080 Mining Water Use by Type (ACFT)

Oil and Gas	0
Aggregate	0
Coal	0

Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



Texas Mining Historical and Projected Water Use



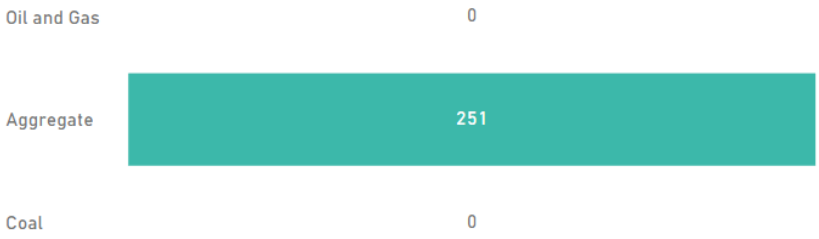
Select Region

K

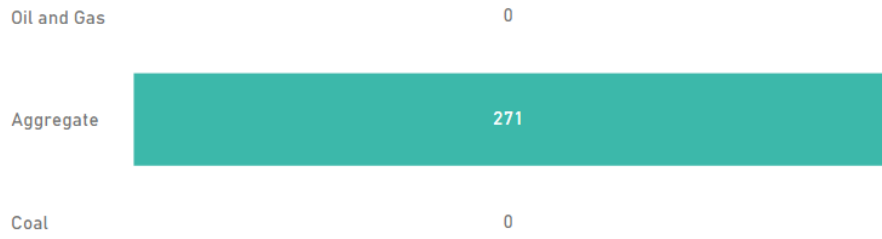
Select County

LLANO

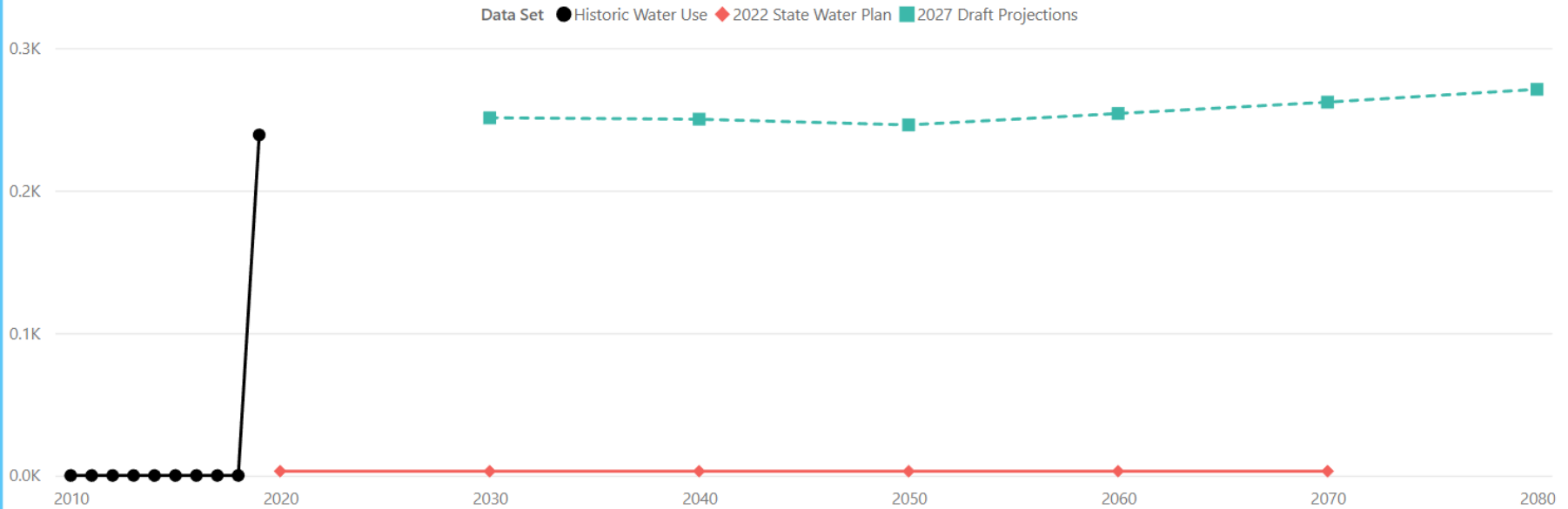
2030 Mining Water Use by Type (ACFT)



2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)



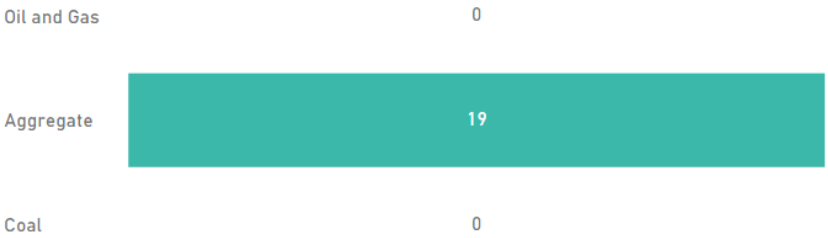
Texas Mining Historical and Projected Water Use



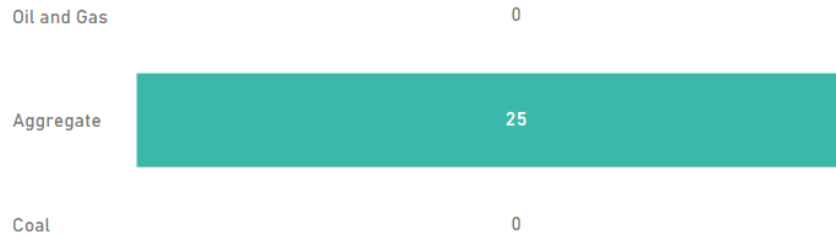
Select Region
K

Select County
GILLESPIE

2030 Mining Water Use by Type (ACFT)

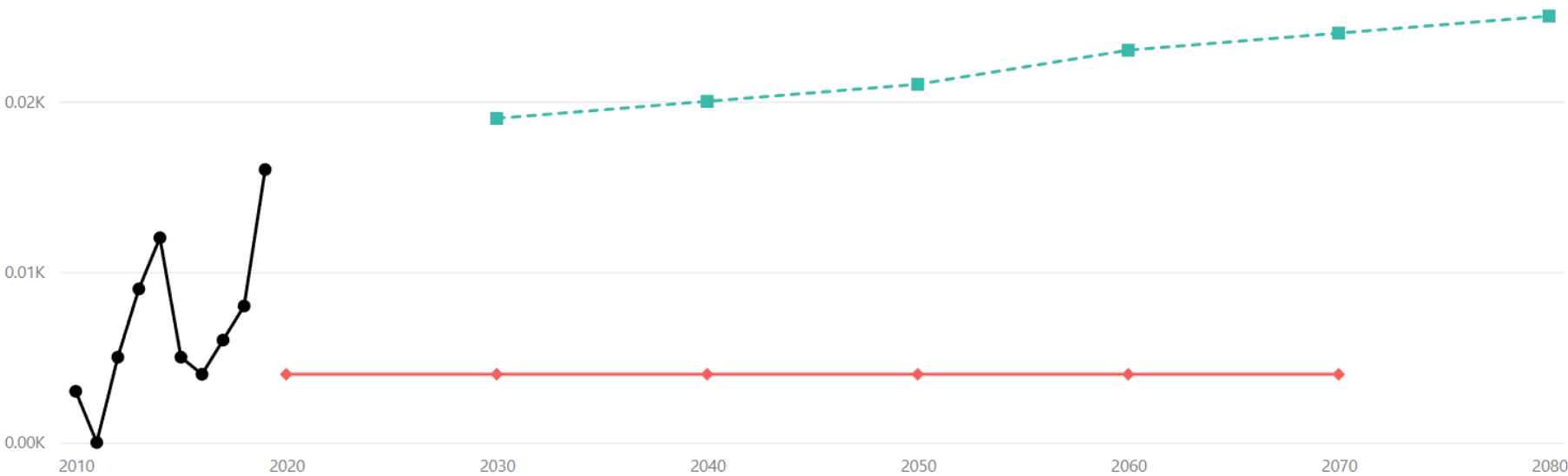


2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



Texas Mining Historical and Projected Water Use



Select Region

K

Select County

BURNET

Search

Select all

BASTROP

BLANCO

BURNET

COLORADO

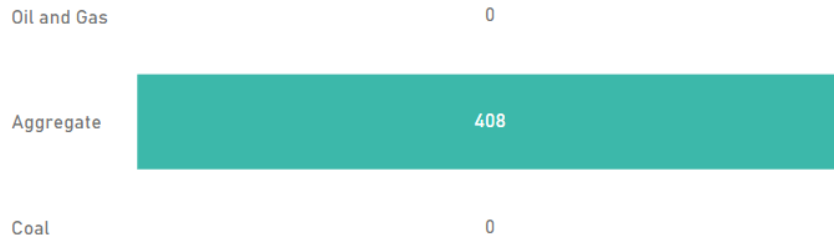
FAYETTE

GILLESPIE

HAYS

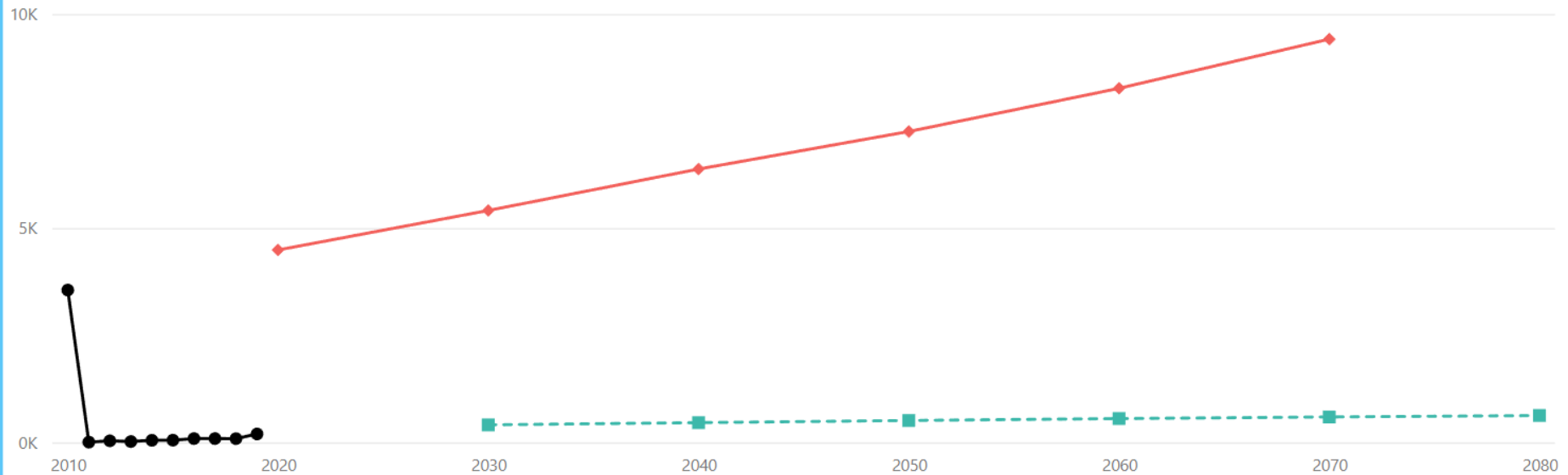
LLANO

2030 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



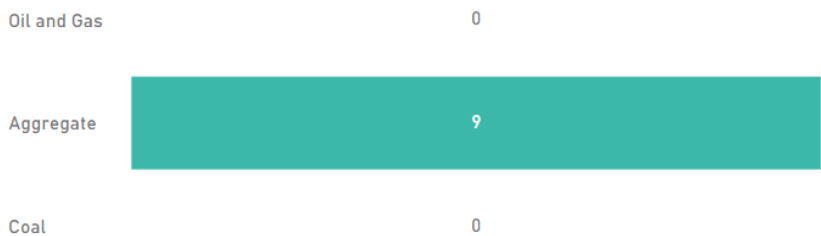
Texas Mining Historical and Projected Water Use



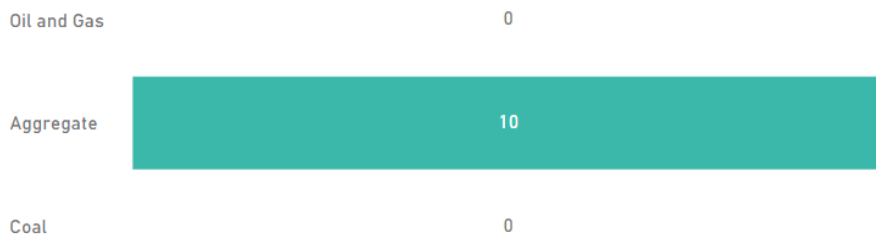
Select Region

Select County

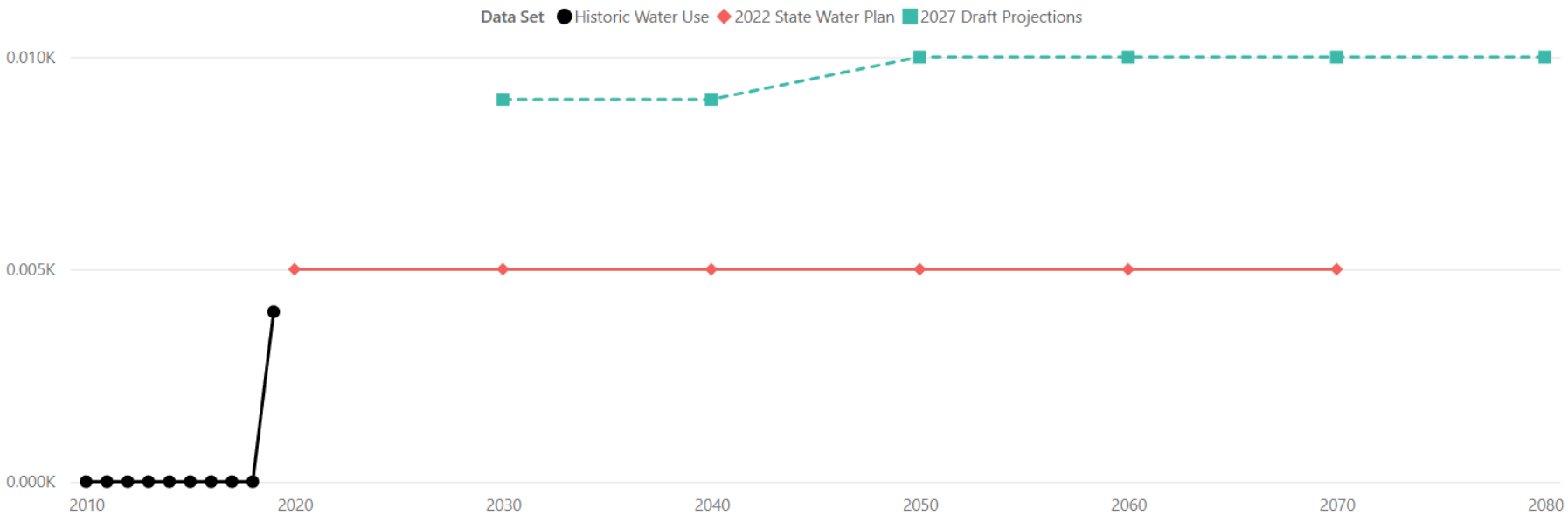
2030 Mining Water Use by Type (ACFT)



2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)



Texas Mining Historical and Projected Water Use

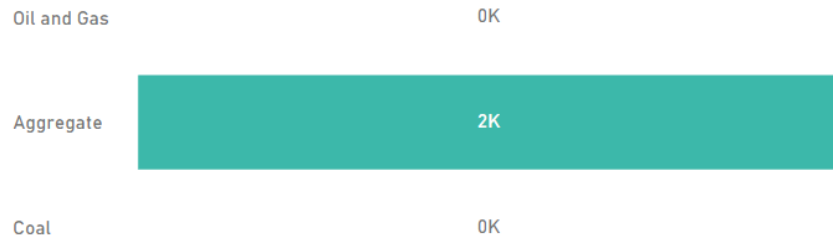
Select Region

K

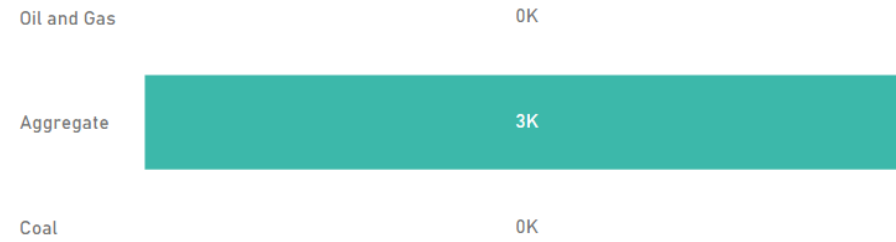
Select County

WILLIAMSON

2030 Mining Water Use by Type (ACFT)

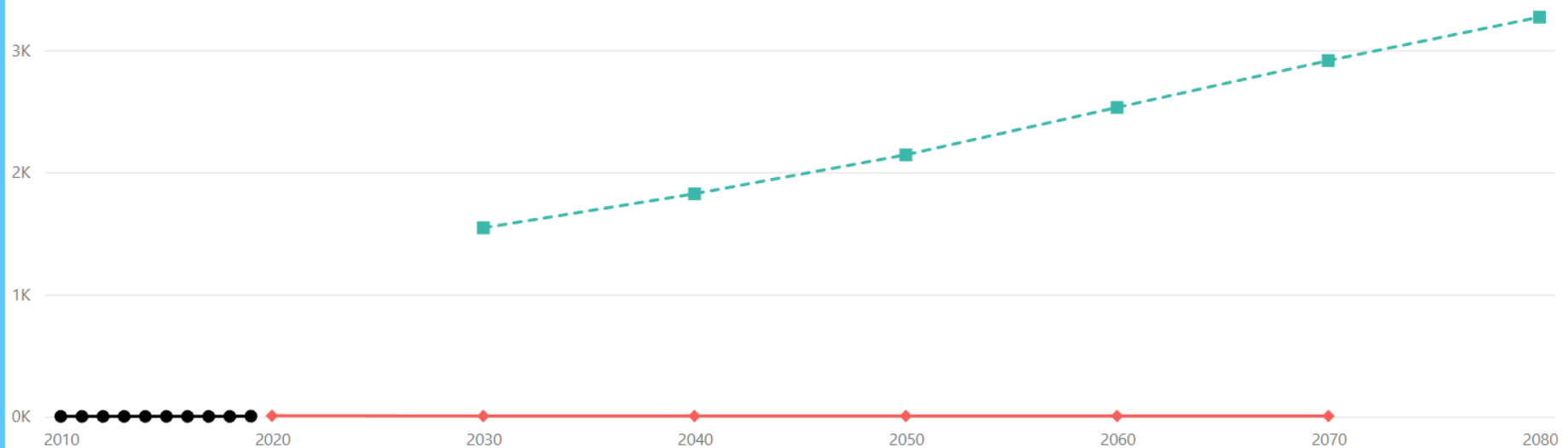


2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



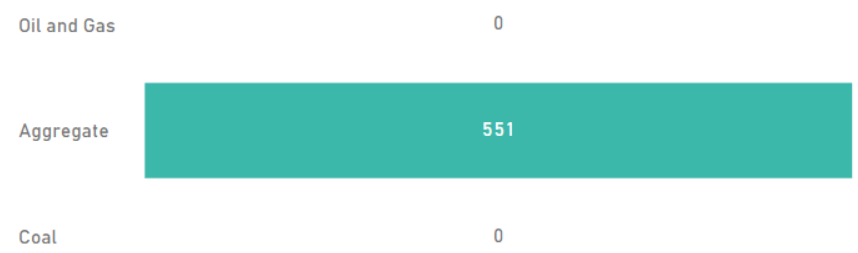
Texas Mining Historical and Projected Water Use



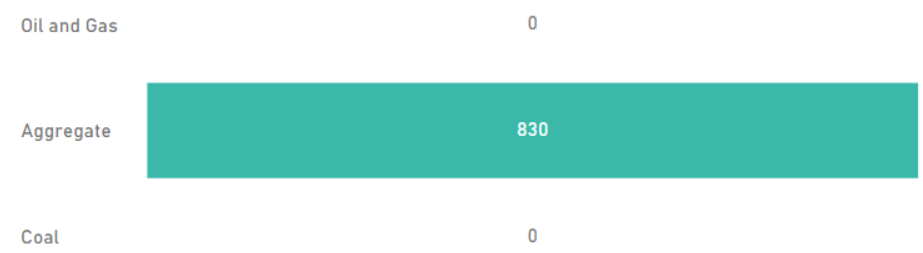
Select Region

Select County

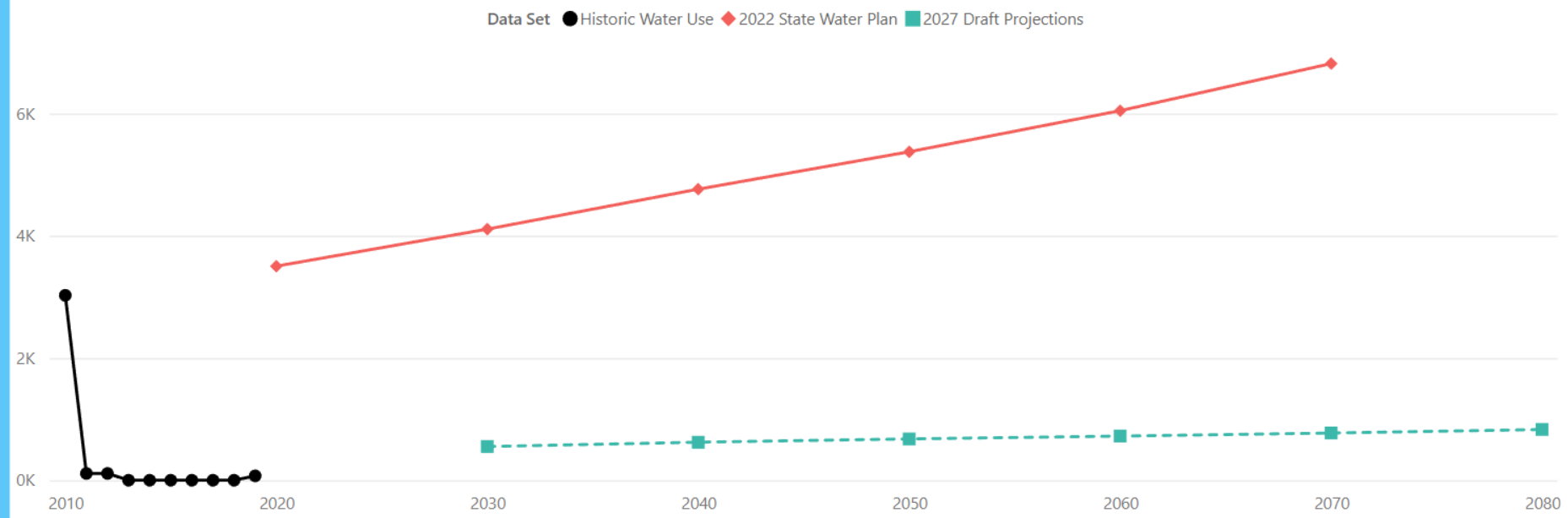
2030 Mining Water Use by Type (ACFT)



2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)



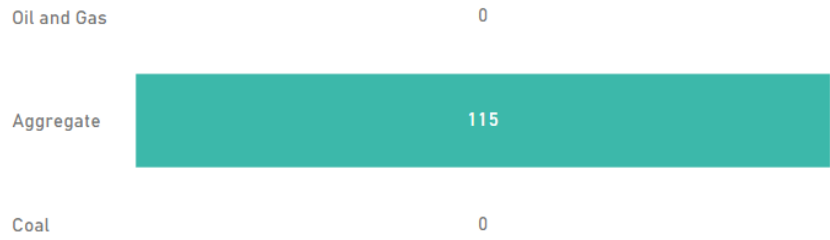
Texas Mining Historical and Projected Water Use



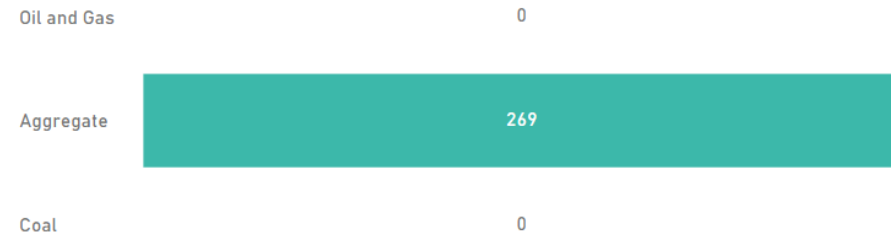
Select Region

Select County

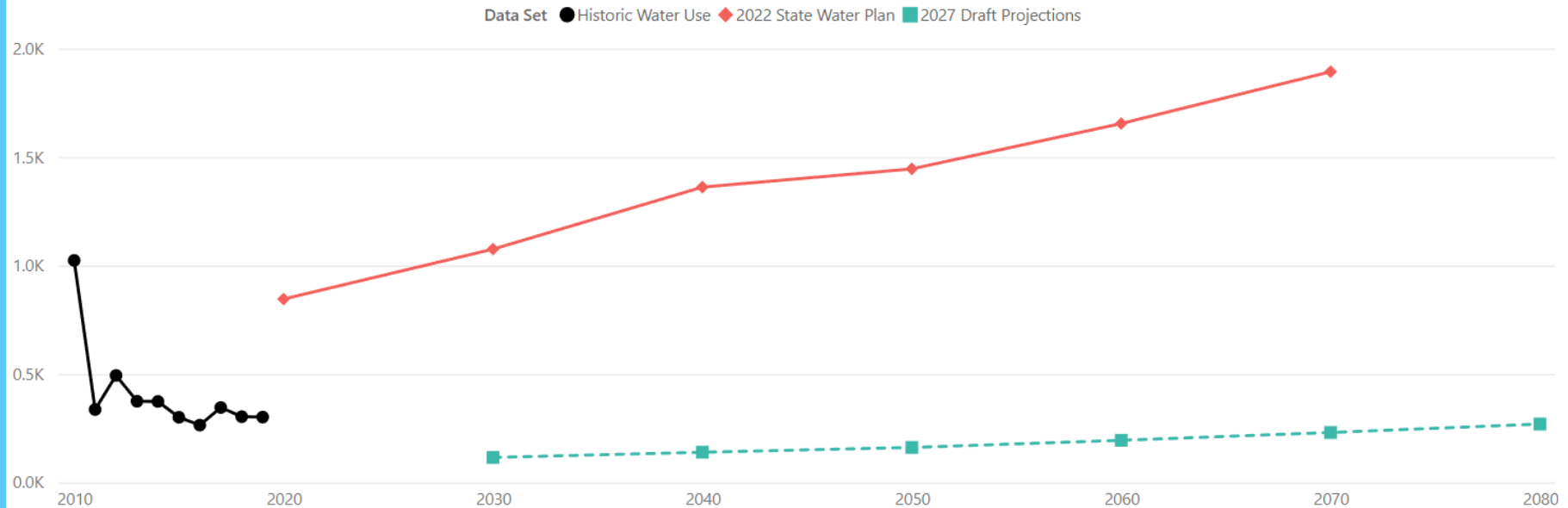
2030 Mining Water Use by Type (ACFT)



2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)



Texas Mining Historical and Projected Water Use



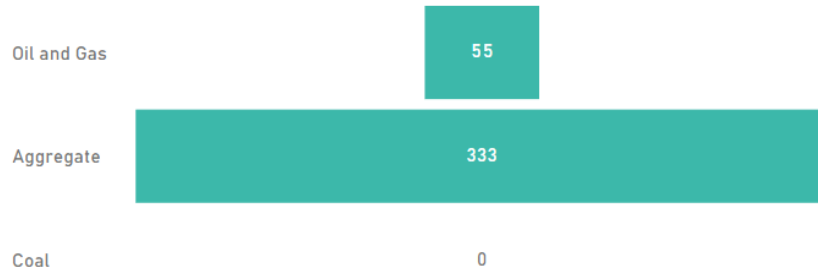
Select Region

K

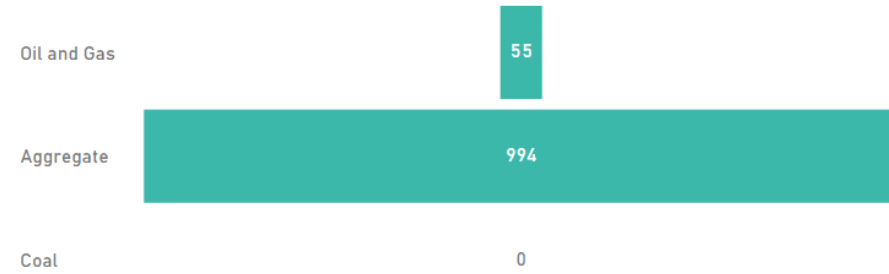
Select County

BASTROP

2030 Mining Water Use by Type (ACFT)

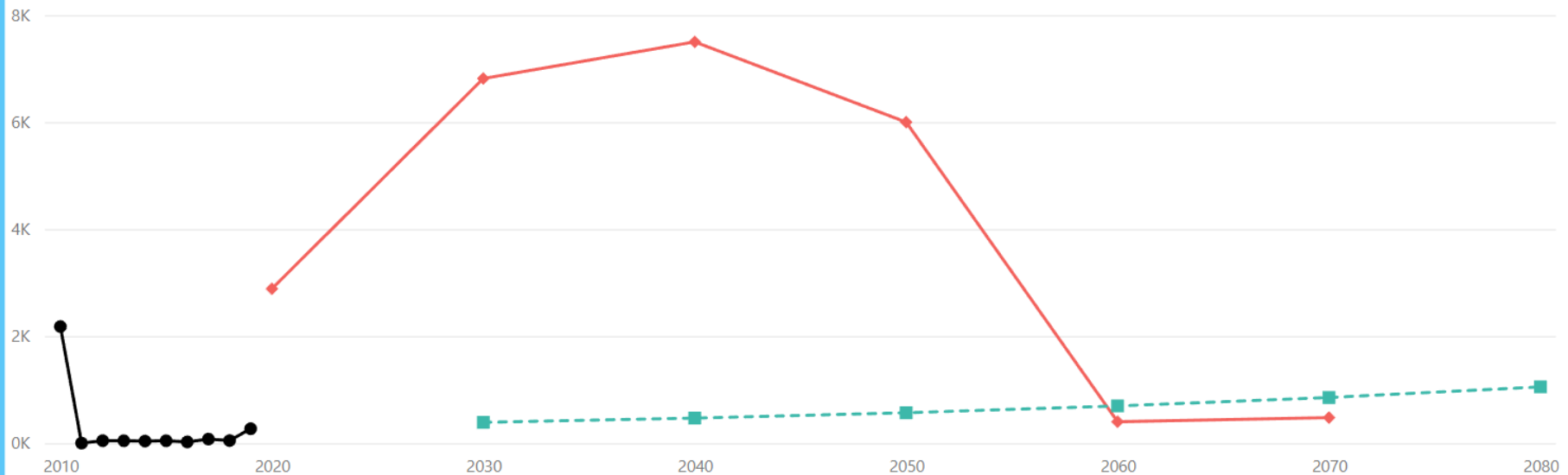


2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



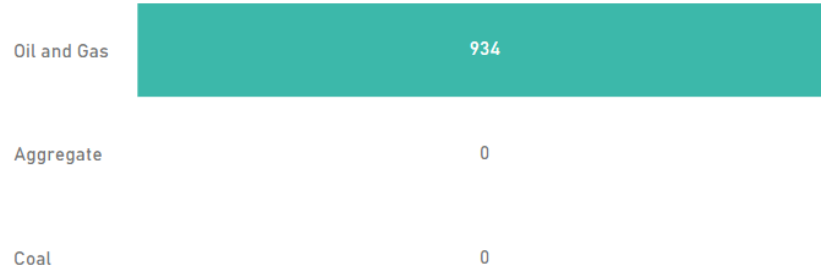
Texas Mining Historical and Projected Water Use



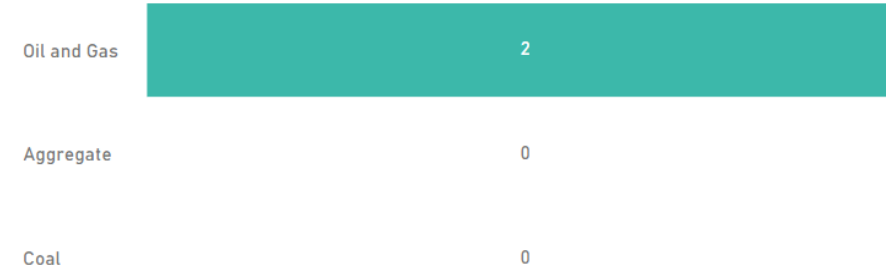
Select Region

Select County

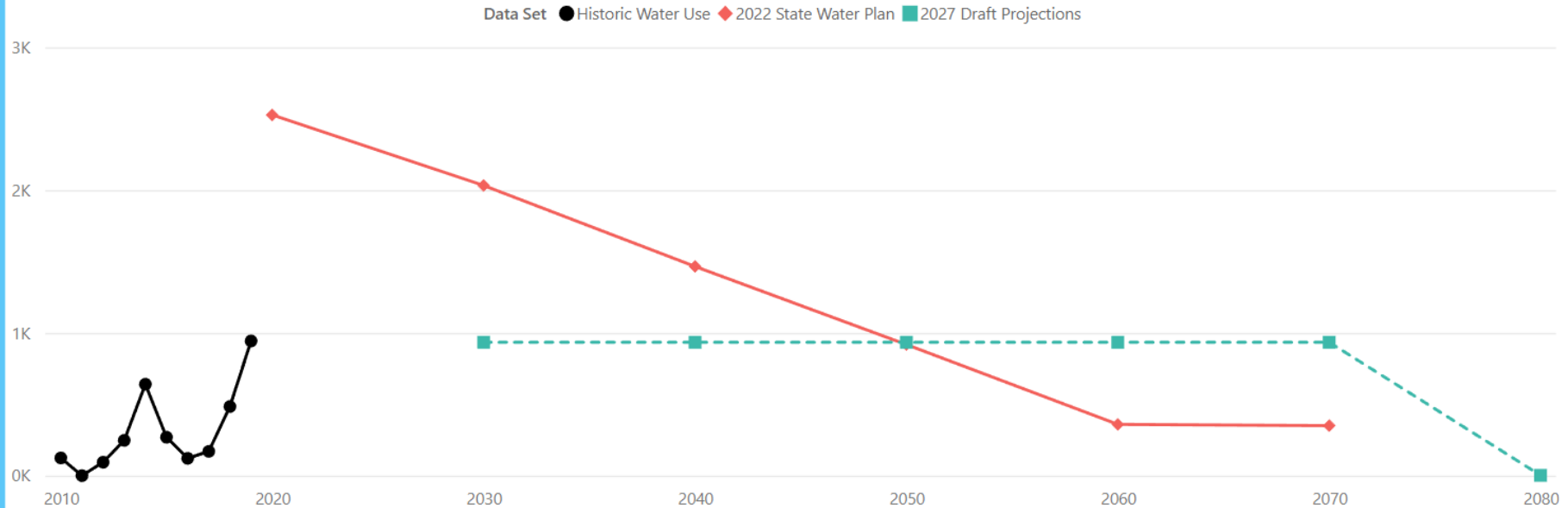
2030 Mining Water Use by Type (ACFT)



2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)



Texas Mining Historical and Projected Water Use



Select Region

K

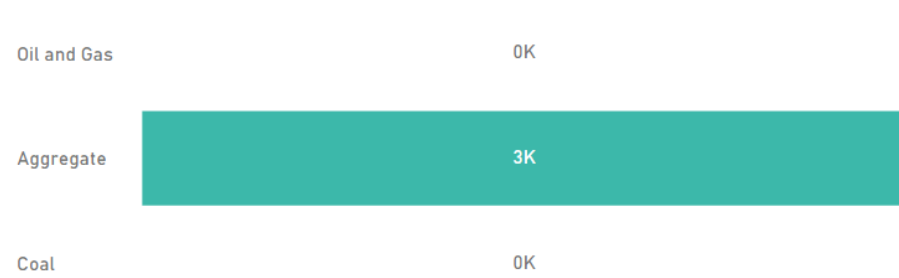
Select County

COLORADO

2030 Mining Water Use by Type (ACFT)

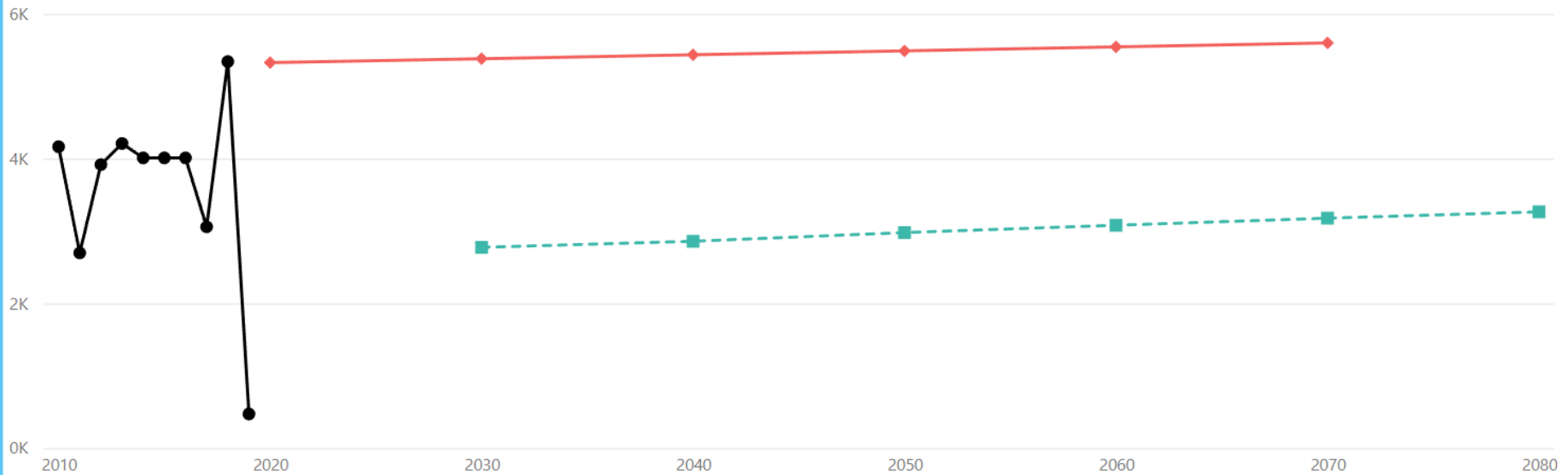


2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)

Data Set ● Historic Water Use ◆ 2022 State Water Plan ■ 2027 Draft Projections



Texas Mining Historical and Projected Water Use



Select Region

Select County

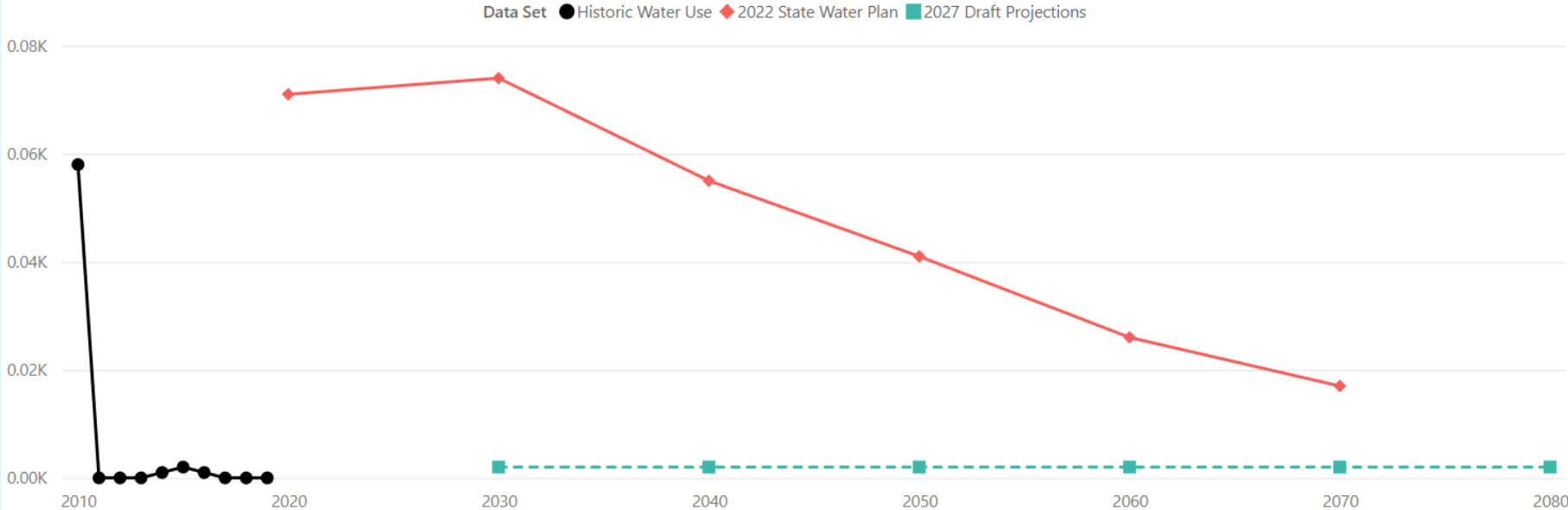
2030 Mining Water Use by Type (ACFT)

Oil and Gas	2
Aggregate	0
Coal	0

2080 Mining Water Use by Type (ACFT)

Oil and Gas	2
Aggregate	0
Coal	0

Historical and Projected Mining Water Use (ACFT)



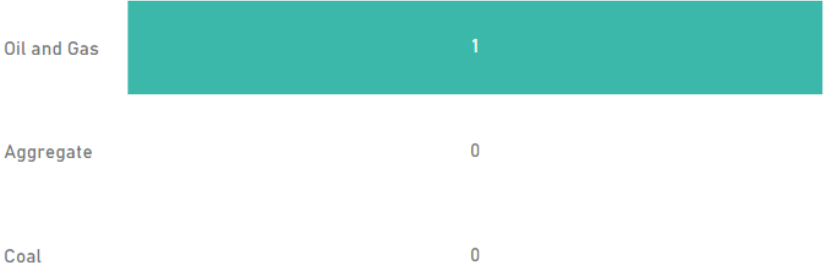
Texas Mining Historical and Projected Water Use



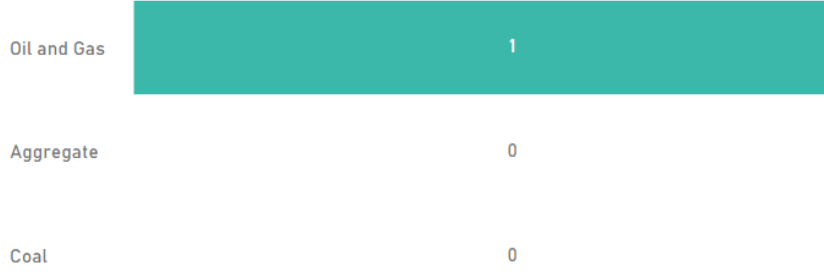
Select Region
K

Select County
MATAGORDA

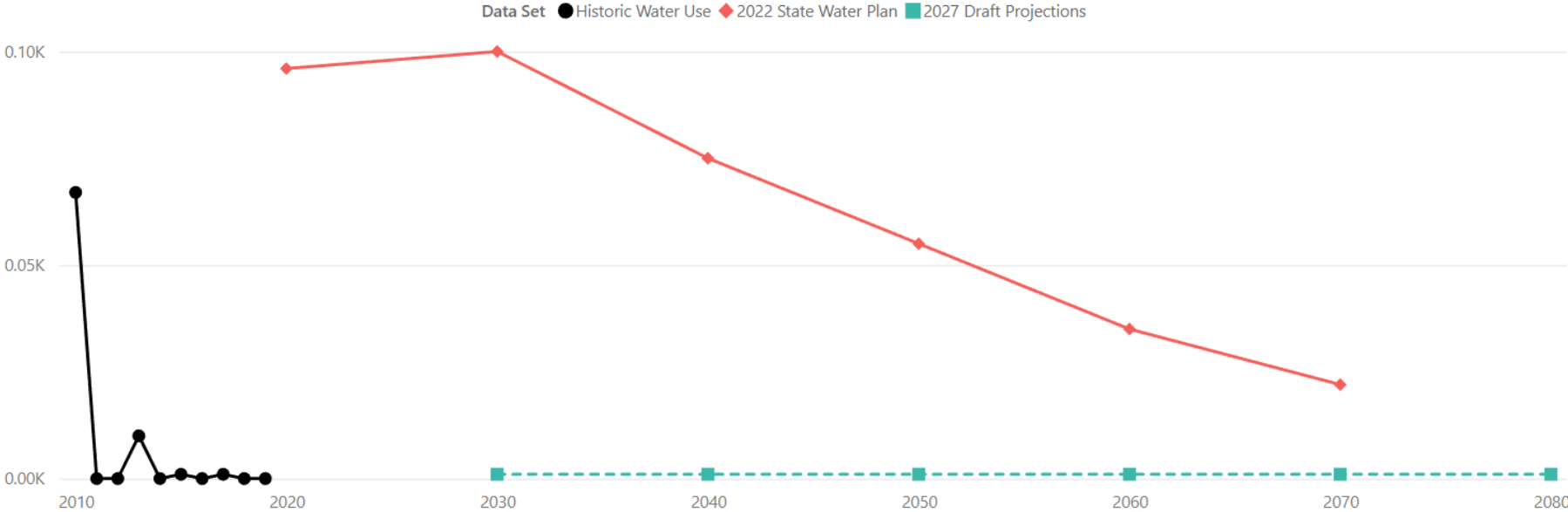
2030 Mining Water Use by Type (ACFT)



2080 Mining Water Use by Type (ACFT)



Historical and Projected Mining Water Use (ACFT)



Agenda Items 3 and 4

3. Review Draft Irrigation Projections

4. Review Draft Mining Projections

Bonus (if time permits): Continue discussion of Draft Livestock, Manufacturing and Steam Electric demand projections



Non-Municipal Water Demand Projections & Methodologies

- Source: 2026 Regional Water Plan Projections Methodology Overview Presentation
 - by Katie Dahlberg of TWDB at January 26th Chairs Conference Call
 - <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/chairscalls.asp>
- Dates
 - Historical: 2015 – 2019
 - Projections: 2030 – 2080

Livestock

Same methodology as 2021 RWPs

Baseline = 5-year average (2015-2019)

- County water use estimates, based on USDA inventory * water use coefficients
- Water use survey facilities

Follows same projection trend as 2021 RWPs

- 2070 – 2080 held constant

Draft projections released in January 2022

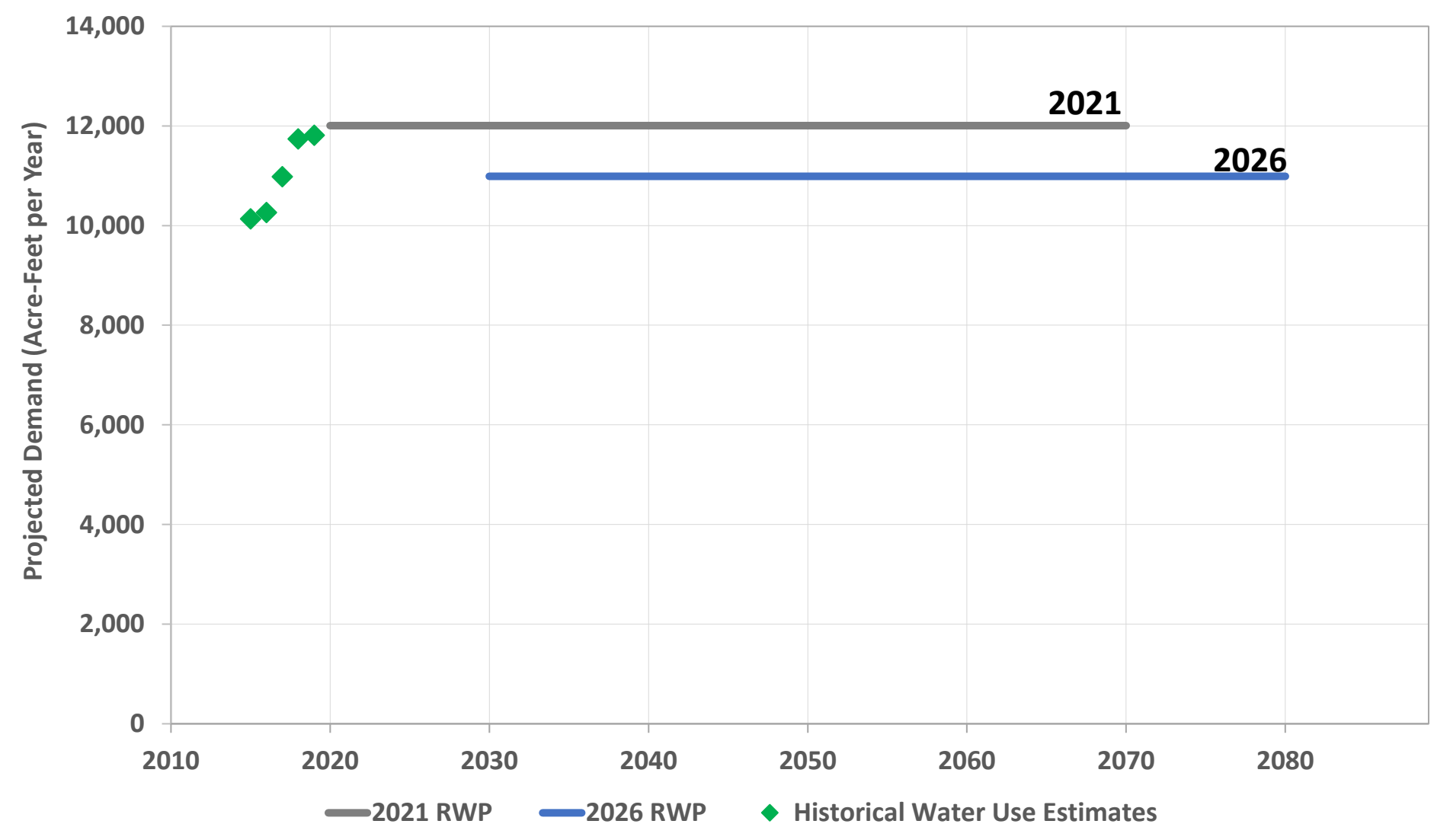


Livestock Water Use Coefficients

TWDB Category	USDA Data Type	2026 RWP Water Use (gallons/head/day)	2021 RWP Water Use (gallons/head/day)
Cattle	Milk	55	75
	Fed & Other Cattle	15	15
Chickens	Layers	0.09	0.086
	Pullets, Replacement		
	Roosters		
	Broilers	0.09	0.077
Equine	Horses & Ponies	12	12
	Mules, Burros, & Donkeys		
Hogs	Hogs	5	11
Sheep	Sheep	2	2
Goats	Milk	2	0.5
	Meat & Other		
	Angora		
Turkeys	Turkeys	0.2	0.2



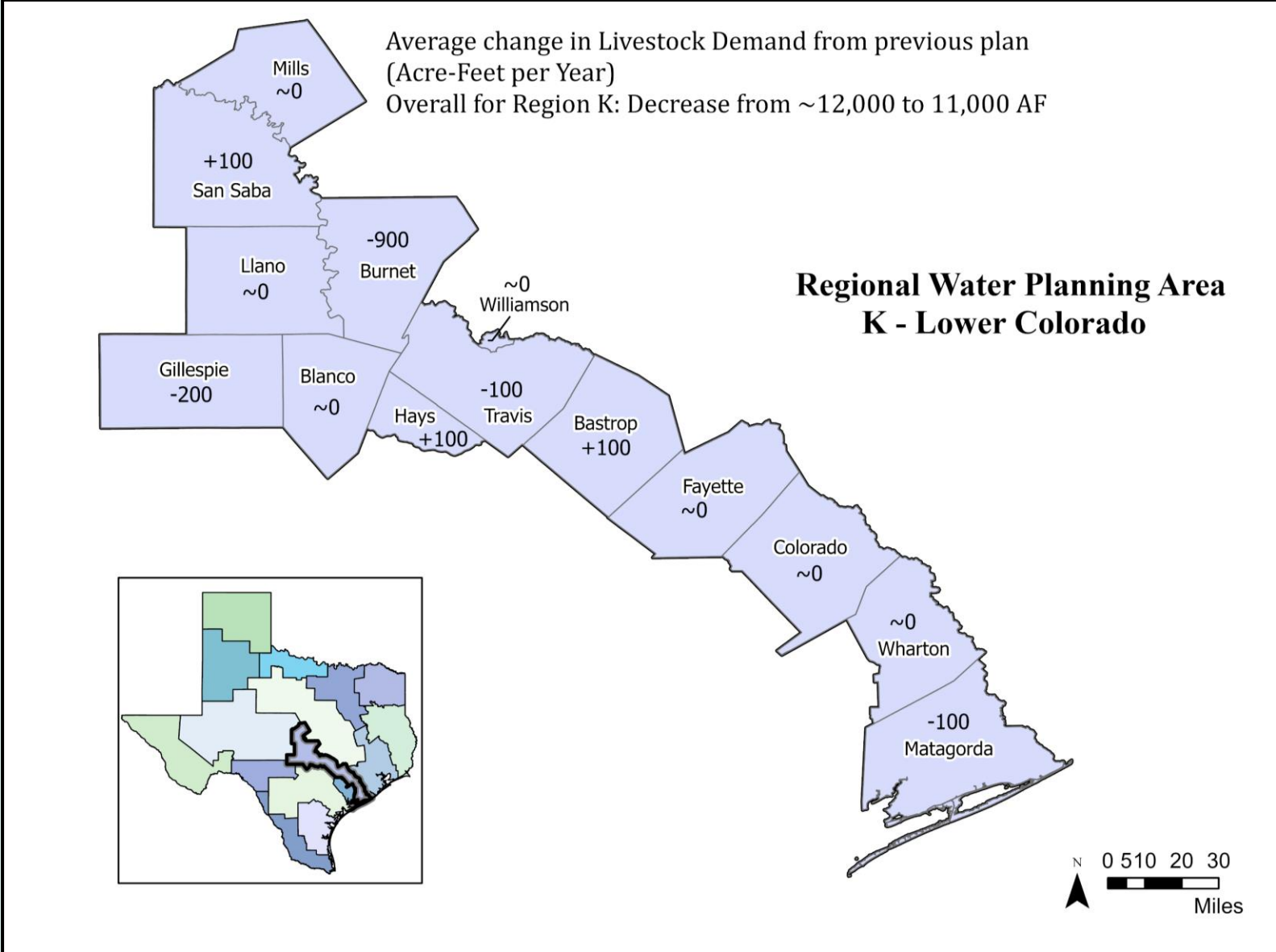
Draft Livestock Demand Projections for Region K



<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



Draft Livestock Demand Projections for Region K – Changes from 2021 to 2026 RWPs



Draft Livestock Demand Projections for Region K

Region	County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 DRAFT Regional Water Plan Projections					
		2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
K	BASTROP	1,052	1,074	1,346	1,390	1,390	1,135	1,135	1,135	1,135	1,135	1,135	1,250	1,250	1,250	1,250	1,250	1,250
K	BLANCO	308	311	376	388	390	331	331	331	331	331	331	355	355	355	355	355	355
K	BURNET	634	576	611	1,048	1,106	1,691	1,691	1,691	1,691	1,691	1,691	795	795	795	795	795	795
K	COLORADO	1,187	1,218	1,298	1,344	1,347	1,276	1,276	1,276	1,276	1,276	1,276	1,279	1,279	1,279	1,279	1,279	1,279
K	FAYETTE	1,649	1,695	1,673	1,723	1,723	1,726	1,726	1,726	1,726	1,726	1,726	1,693	1,693	1,693	1,693	1,693	1,693
K	GILLESPIE	834	858	1,088	1,114	1,114	1,212	1,212	1,212	1,212	1,212	1,212	1,002	1,002	1,002	1,002	1,002	1,002
K	HAYS	124	124	107	112	112	17	17	17	17	17	17	116	116	116	116	116	116
K	LLANO	610	615	626	644	644	580	580	580	580	580	580	628	628	628	628	628	628
K	MATAGORDA	971	982	922	959	959	1,075	1,075	1,075	1,075	1,075	1,075	959	959	959	959	959	959
K	MILLS	785	802	824	845	853	863	863	863	863	863	863	822	822	822	822	822	822
K	SAN SABA	751	764	967	992	992	779	779	779	779	779	779	893	893	893	893	893	893
K	TRAVIS	414	417	380	395	395	527	527	527	527	527	527	400	400	400	400	400	400
K	WHARTON	799	811	749	770	770	792	792	792	792	792	792	780	780	780	780	780	780
K	WILLIAMSON	16	16	16	17	17	0	0	0	0	0	0	16	16	16	16	16	16
Region Total		10,134	10,263	10,983	11,741	11,812	12,004	12,004	12,004	12,004	12,004	12,004	10,988	10,988	10,988	10,988	10,988	10,988

<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



Manufacturing

Baseline = highest county water use (2015-2019) + unaccounted water use estimates

- Historical water use survey
- U.S. Census Bureau County Business Patterns (CBP) historical number of establishments

Water Sources: fresh and brackish groundwater, fresh surface water, reuse

- Total intake

Draft projections released in January 2022

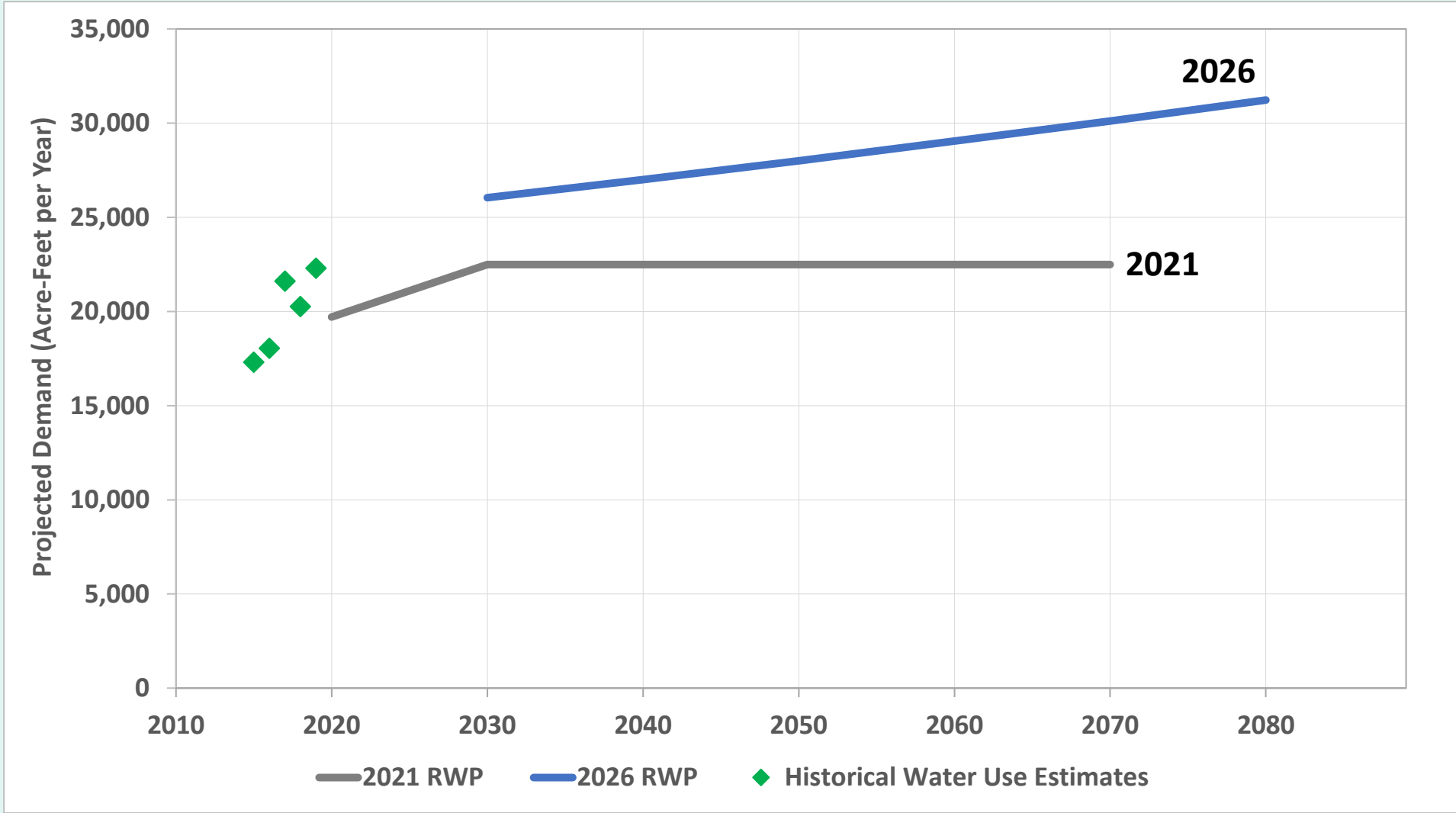


Manufacturing

Baseline * 2010-2019 historical water use survey rate of change = 2030

CBP 2010-2019 historical number of establishments rate of change used to project each decade 2040-2080

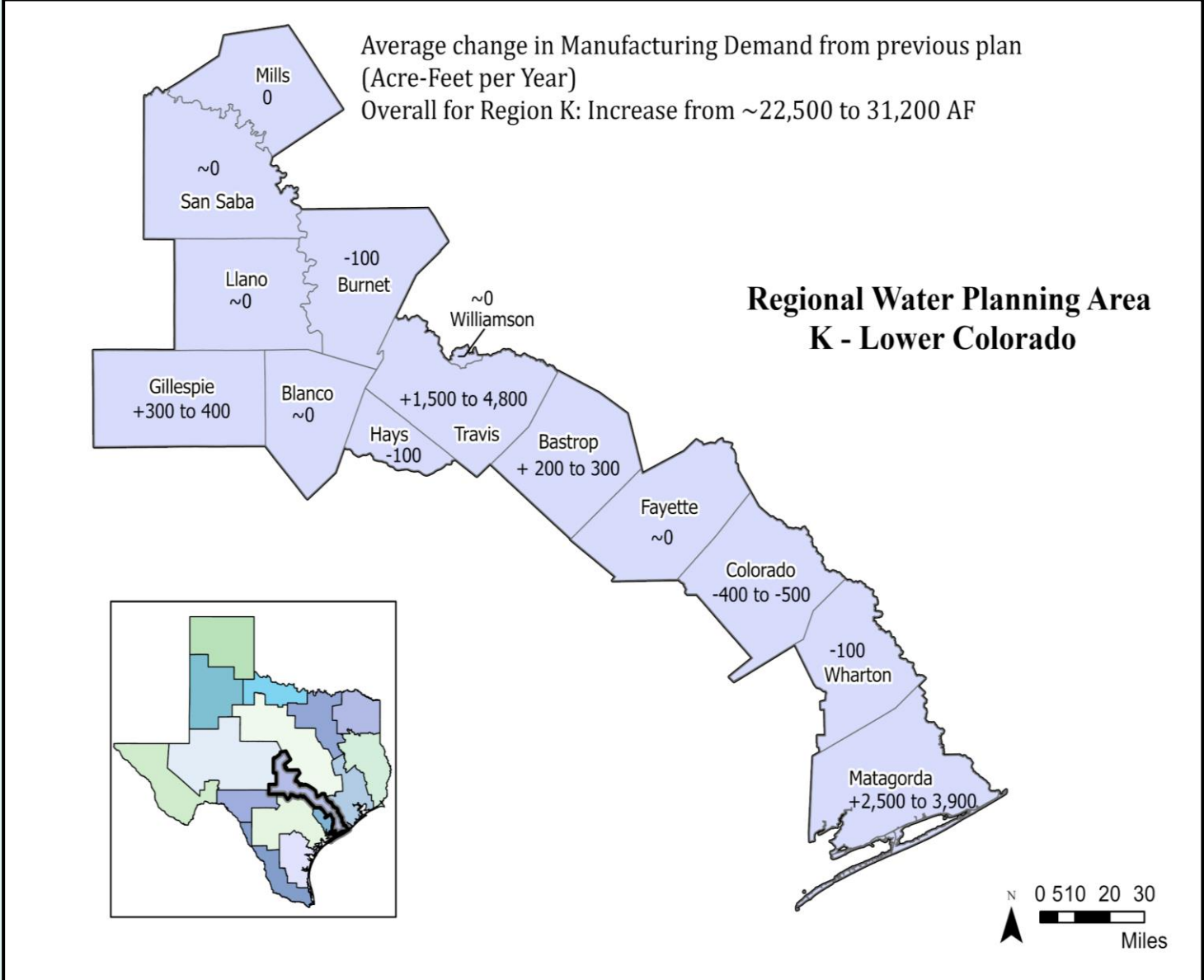
Draft Manufacturing Demand Projections for Region K



<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



Draft Manufacturing Demand Projections for Region K – Changes from 2021 to 2026 RWPs



Draft Manufacturing Demand Projections for Region K

Region	County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 DRAFT Regional Water Plan Projections					
		2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
K	BASTROP	99	71	167	245	350	188	215	215	215	215	215	414	429	445	461	478	496
K	BLANCO	0	0	0	0	0	0	0	0	0	0	0	16	17	18	19	20	21
K	BURNET	137	101	105	71	92	251	299	299	299	299	299	156	162	168	174	180	187
K	COLORADO	532	539	500	513	509	960	1,132	1,132	1,132	1,132	1,132	593	615	638	662	686	711
K	FAYETTE	363	318	277	259	311	396	442	442	442	442	442	399	414	429	445	461	478
K	GILLESPIE	19	25	321	314	314	77	93	93	93	93	93	388	402	417	432	448	465
K	HAYS	134	106	119	119	131	277	324	324	324	324	324	181	188	195	202	209	217
K	LLANO	3	1	2	2	2	3	4	4	4	4	4	3	3	3	3	3	3
K	MATAGORDA	3,954	4,392	5,464	4,740	6,688	4,199	4,916	4,916	4,916	4,916	4,916	7,378	7,651	7,934	8,228	8,532	8,848
K	MILLS	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
K	SAN SABA	5	5	5	4	17	10	12	12	12	12	12	19	20	21	22	23	24
K	TRAVIS	12,002	12,424	14,576	13,918	13,816	13,164	14,853	14,853	14,853	14,853	14,853	16,401	17,008	17,637	18,290	18,967	19,669
K	WHARTON	49	51	57	60	59	156	171	171	171	171	171	79	82	85	88	91	94
K	WILLIAMSON	10	12	13	13	8	25	30	30	30	30	30	14	15	16	17	18	19
Region Total		17,309	18,046	21,607	20,259	22,298	19,708	22,493	22,493	22,493	22,493	22,493	26,043	27,008	28,008	29,045	30,118	31,234

<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



Steam-Electric Power

Baseline = highest county water use (2015-2019) + estimated water use for non-responses and proposed plants

- Historical water use survey
- U.S. Energy Information Administration 860 form – NAICS: 22

If a facility retires before 2020, then the water use is removed from the projections

If RWPGs requested to remove a facility in the previous plan, then facility was removed in the 2026 draft projections

Steam-Electric Power

Water sources: fresh and brackish groundwater, fresh surface water, reuse

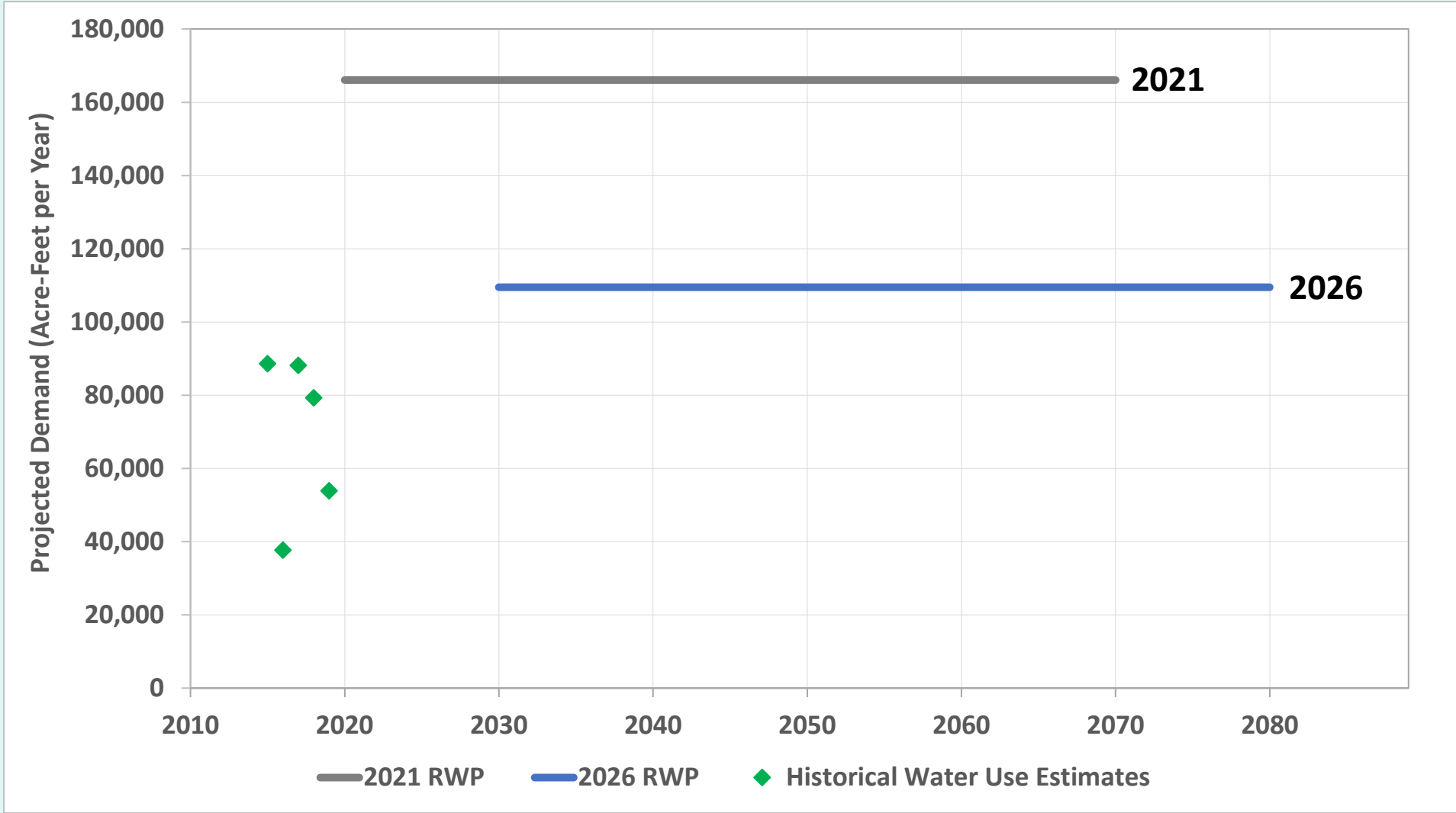
- Consumptive use

2030 – 2080 held constant

Same methodology as the 2021 RWPs

Draft projections released in January 2022

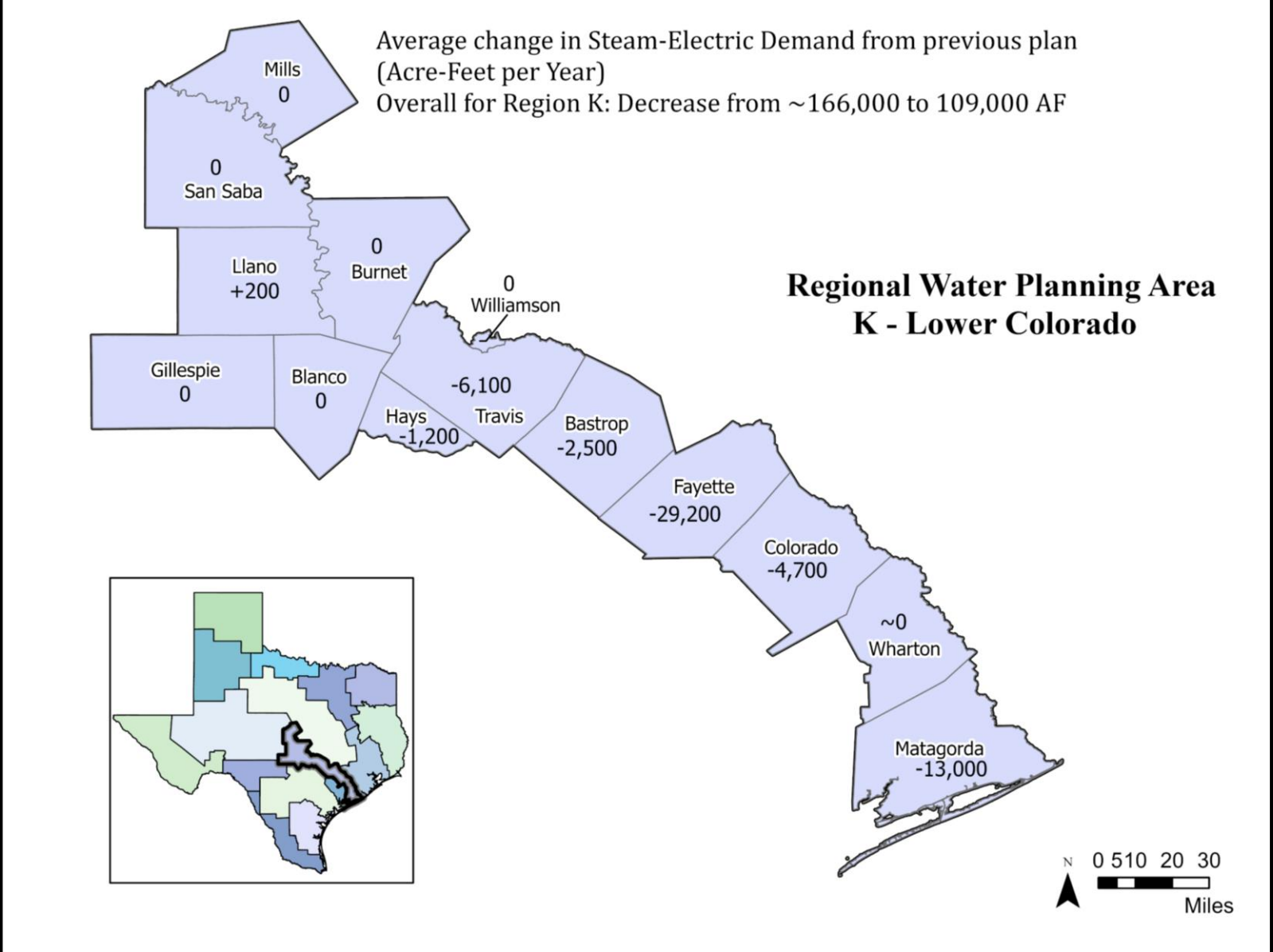
Draft Steam-Electric Demand Projections for Region K



<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>



Draft Steam-Electric Demand Projections for Region K – Changes from 2021 to 2026 RWPs



Draft Steam-Electric Demand Projections for Region K

Region	County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 DRAFT Regional Water Plan Projections					
		2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
K	BASTROP	7,764	5,844	6,905	7,118	7,319	10,288	10,288	10,288	10,288	10,288	10,288	7,764	7,764	7,764	7,764	7,764	7,764
K	BLANCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K	BURNET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K	COLORADO	0	0	0	0	0	4,971	4,971	4,971	4,971	4,971	4,971	226	226	226	226	226	226
K	FAYETTE	9,338	8,494	18,575	20,052	14,023	49,211	49,211	49,211	49,211	49,211	49,211	20,052	20,052	20,052	20,052	20,052	20,052
K	GILLESPIE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K	HAYS	0	0	0	0	0	1,187	1,187	1,187	1,187	1,187	1,187	0	0	0	0	0	0
K	LLANO	1,733	1,927	1,762	1,446	1,054	1,748	1,748	1,748	1,748	1,748	1,748	1,927	1,927	1,927	1,927	1,927	1,927
K	MATAGORDA	67,453	16,715	57,068	46,278	25,134	80,536	80,536	80,536	80,536	80,536	80,536	67,453	67,453	67,453	67,453	67,453	67,453
K	MILLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K	SAN SABA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K	TRAVIS	2,321	2,208	2,103	2,680	4,116	10,253	10,253	10,253	10,253	10,253	10,253	4,116	4,116	4,116	4,116	4,116	4,116
K	WHARTON	3	2,449	1,687	1,696	2,217	7,901	7,901	7,901	7,901	7,901	7,901	7,913	7,913	7,913	7,913	7,913	7,913
K	WILLIAMSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Region Total		88,612	37,637	88,100	79,270	53,863	166,095	166,095	166,095	166,095	166,095	166,095	109,451	109,451	109,451	109,451	109,451	109,451

<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>

