

Population and Water Demand Subcommittee Meeting: 2/06/2023

Agenda Items 3, 4, 5

3. Review Revised Irrigation Projections

4. Review Draft Mining Projections

Consider Burnet County Revision

5. Review Livestock, Manufacturing, Steam electric projections: consider proposed revisions



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Proposed Region K Surface Water Irrigation Demands

Feb. 6, 2023



Background

- **2021 Region K water plan methodology**
 - Texas Water Development Board methodology based on 2010-2014 historical average
 - TWDB approved Region K's requested modification to irrigation demand based on 2011 water demand, constrained by contract acre-foot per acre duty caps for both seasons
 - Non-rice irrigation demand added for Lakeside Agricultural Division

Background

- **TWDB irrigation demand projection methodology for 2026 regional water plan**
 - Based on 2015-2019 historical water use average
 - Assumes constant demand throughout 50-year planning cycle, unless constrained by groundwater availability

Proposed Methodology for 2026 Regional Water Plan

- **First season irrigation demand based on 2022 water demand**
 - Apply actual 2022 acre-foot per acre use
 - Adjust average use to remove large groundwater users in Gulf Coast division
 - Adjust average use to cap field use at duty rate
- **Second season irrigation demand**
 - Based on average 2016-2021 acre-foot per acre use, excluding 2018
- **Supplemental crops irrigation demand**
 - Based on average 2016-2021 acre-foot per acre use

On-Farm Water Use

(Acre-foot per acre demand)	Garwood Agricultural Division	Lakeside Agricultural Division	Pierce Ranch*	Gulf Coast Agricultural Division
First season**	2.92	2.45	2.45	3.11
Second season***	1.21	1.23	1.23	1.48
Supplemental	1.3	1.6	1.6	1
Canal loss	20%	20%	20%	30%

*Estimated based on Lakeside Agricultural Division data.

**Based on 2022 water use.

***Based on average 2016-2021 water use, excluding 2018.

Region K Surface Water Irrigation Demands

(Acre-foot per acre demand)	Colorado County	Wharton County	Matagorda County	Total
TWDB draft projected 2030 surface water demands*	74,314	74,061	57,432	205,807
2021 Regional Water Plan projected 2030 surface water demands**	134,915	115,466	152,515	402,896
Proposed projected surface water demands***	114,797	75,754	54,717	245,268

*Based on historical 2015-2019 water use.

**Based on 2011 capped water demand.

***Based on 2022 capped water demand and average 2016-2021 use for second season, assuming no changes to groundwater demands.

Region K Irrigation Water Demands

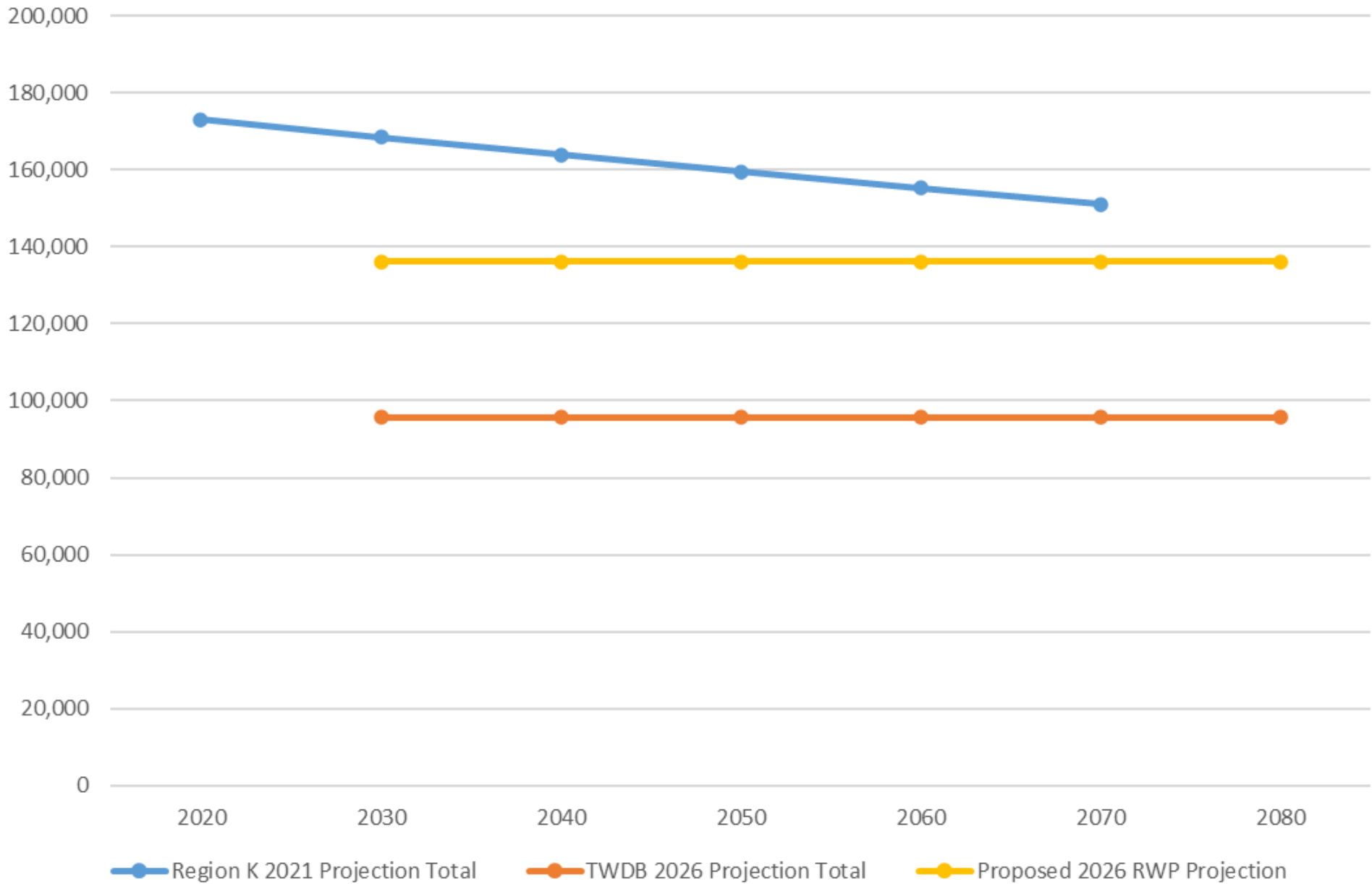
(Acre-foot per acre demand)	Colorado County	Wharton County	Matagorda County	Total
TWDB draft projected 2030 demands*	95,693	124,581	86,951	307,225
2021 Regional Water Plan projected 2030 demands**	168,455	184,023	186,434	538,912
Proposed projected demands***	136,177	126,274	84,236	346,687

*Based on historical 2015-2019 water use.

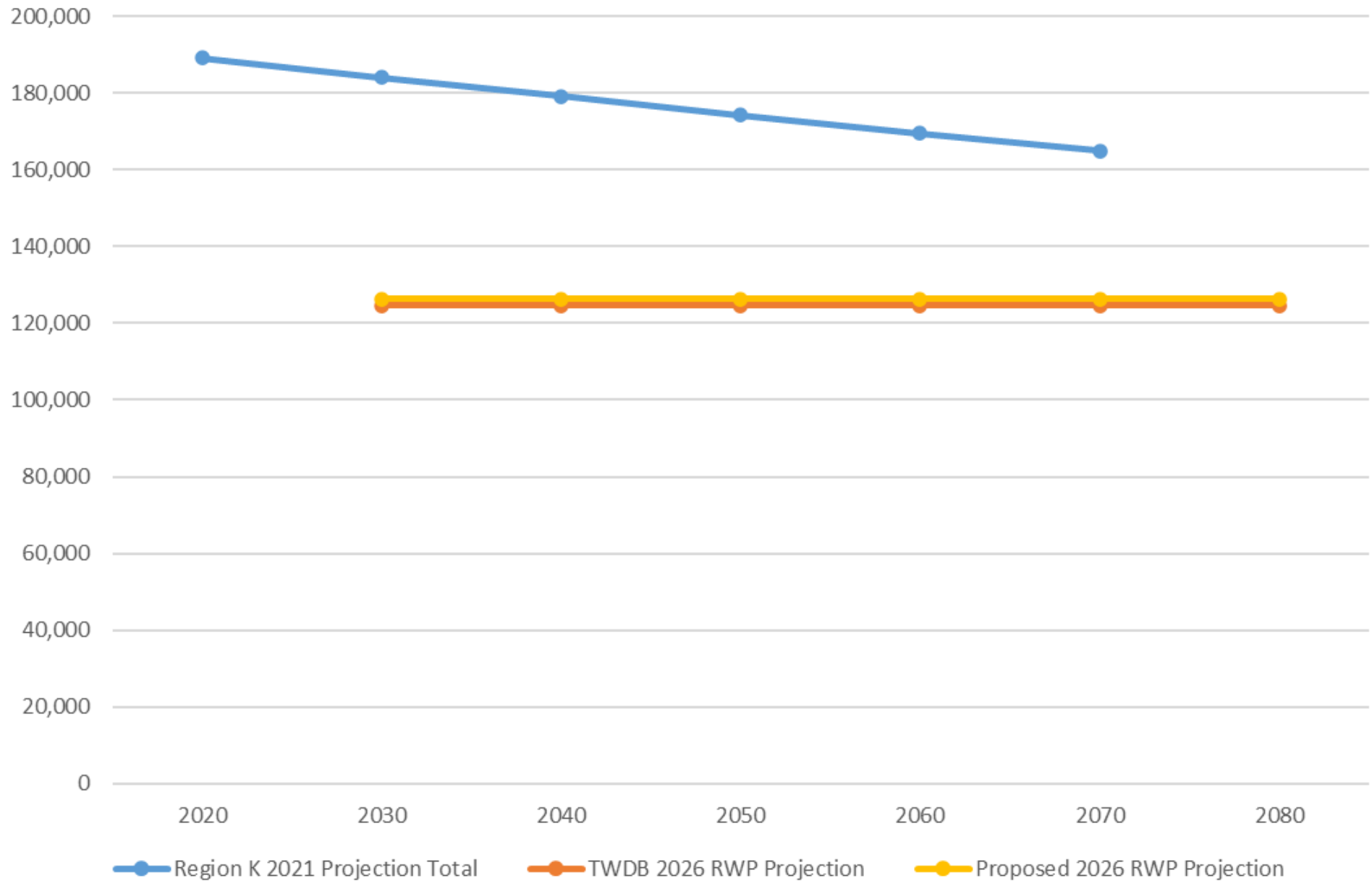
**Based on 2011 capped water demand.

***Based on 2022 capped water demand and average 2016-2021 use for second season, assuming no changes to groundwater demands.

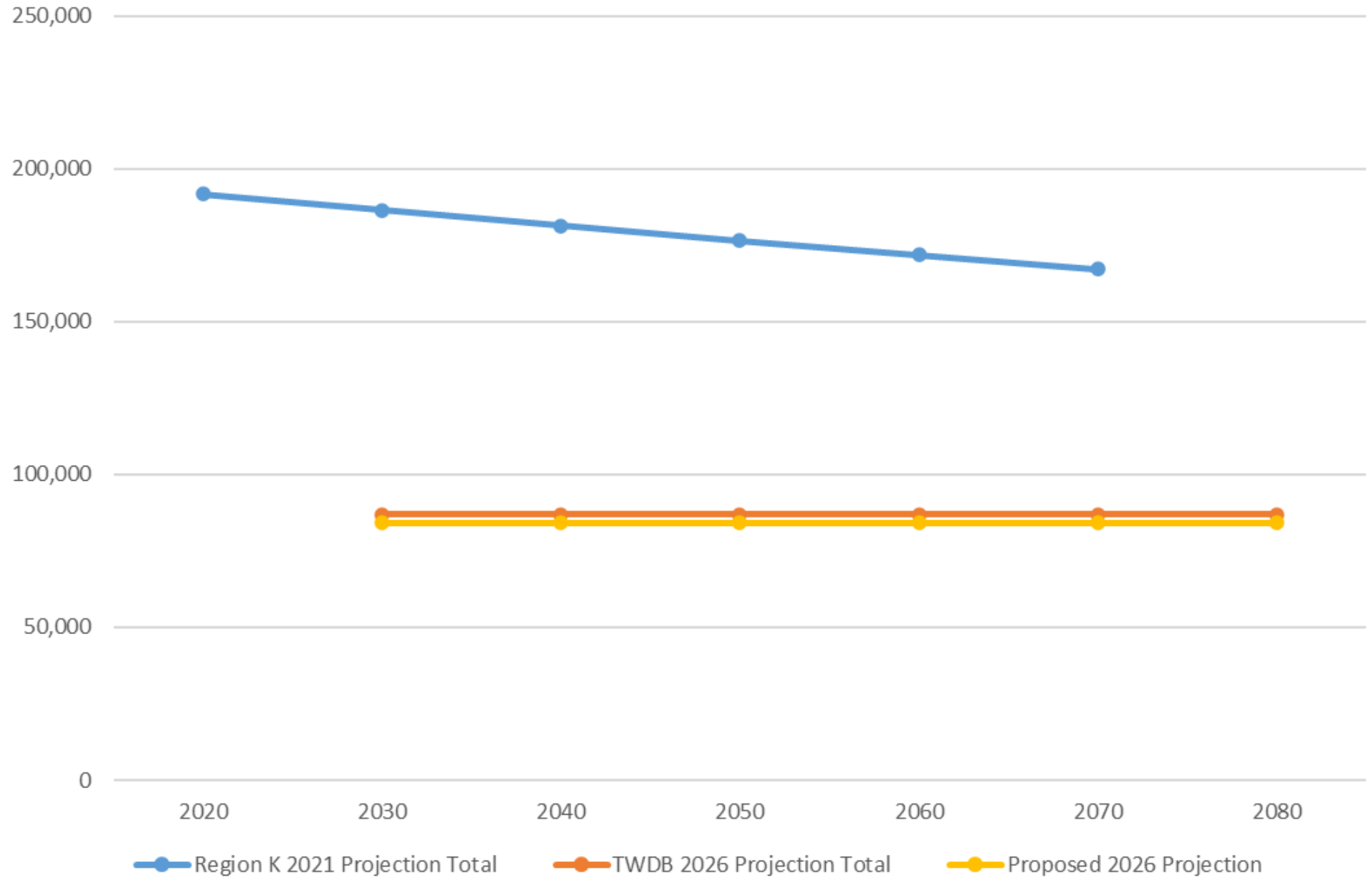
Region K Irrigation Water Demand Projections Colorado Co



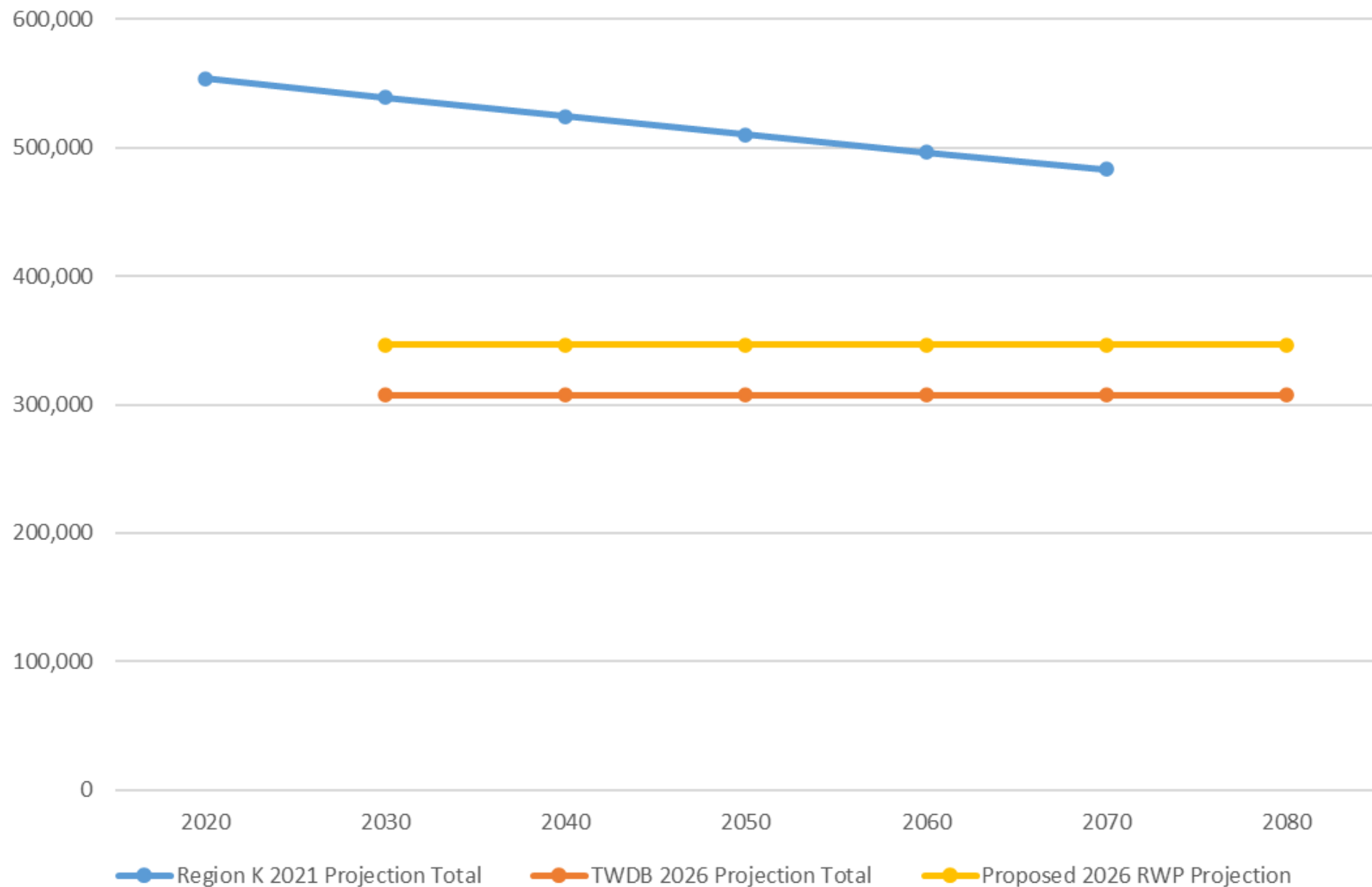
Region K Irrigation Water Demand Projections Wharton Co



Region K Irrigation Water Demand Projections Matagorda Co



Region K Irrigation Water Demand Projections Total



Questions?



Agenda Items 3, 4, 5

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Texas Mining Historical and Projected Water Use



Select Region

K

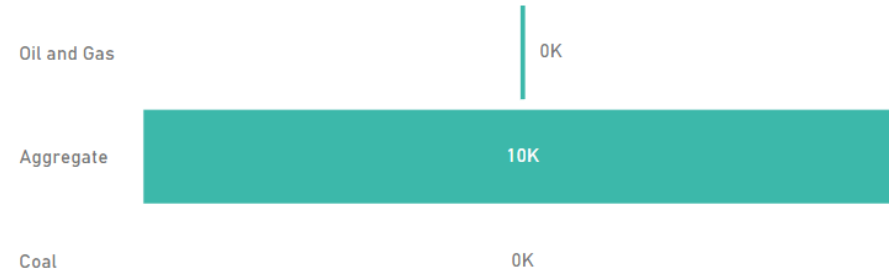
Select County

All

2030 Mining Water Use by Type (ACFT)

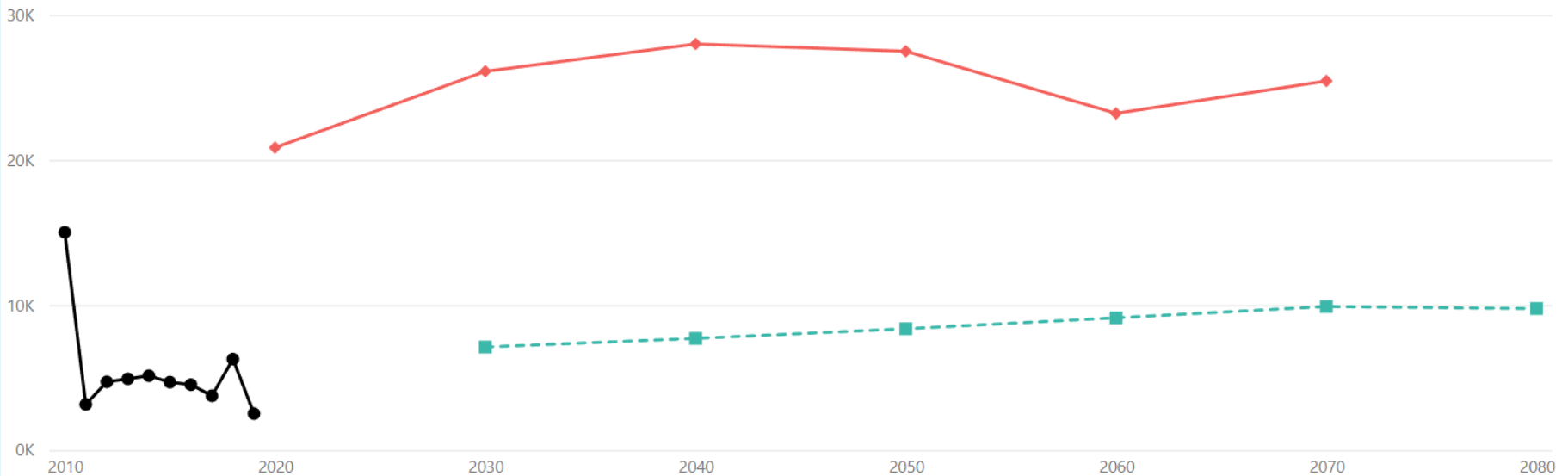


2080 Mining Water Use by Type (ACFT)



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

Agenda Item 4

- Mitchell Sodek, GM of Central Texas GCD (Burnet County) requested a revisions to aggregate mining demands
- CTGCD has reported aggregate mining GW use numbers for 2020

These are the reported meter usage and estimated usage for 2020:

Capitol Aggregates INC/Knife River	OP-16011401	92.6
Lhoist/Texas Materials		150
Lhoist		13
Texas Materials Group INC	OP-12052101	53
Texas Materials Group INC	OP-13022503	0
Texas Materials Group INC	OP-13022502	0
Lehigh Hanson Materials South	OP-10110301	349.11
Spicewood Crushed Stone LLC	OP-21070701	0
Bilbrough Marble	OP-10102009	0
Vulcan Construction Materials LP	OP-10101934	80.97
		738.68

SW use from TWDB = 143 AF

Total GW+SW = 1,029 AF

I believe that you could make a reasonable estimate that an additional 20% of GW usage is unmetered, unpermitted, unaccounted for. 2020 baseline 738.68 +20% = 886 AF

Agenda Item 4

- LCRA Contract Amounts not included in projections
 - Fayette County – INEOS USA Oil & Gas
 - Contract for 70 acre-feet/year
 - Existing projections show: 934 acre-feet/yr (2030-2070), 2 acre-feet/year (2080)
 - No change in regional projections needed.
 - Matagorda County – Magnolia Oil & Gas
 - Contract for 499 acre-feet/year
 - Existing projections show: 1 acre-foot/year (2030-2080)
 - Add 499 acre-feet/year => 500 acre-feet/year

Proposed 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	1,029	1,245	1,427	1,602	1,755	1,887
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	7,724	8,480	9,279	10,164	11,056	11,010

Note: we recently identified a small inconsistency in the population proportion calculations from BEG, so we will propose slightly revised numbers when we have updated BEGs calculations.

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



Proposed Mining Demand Projections for Region K (Revised)

County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 REVISED Regional Water Plan 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	0	0	0	0	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	1,029	1,245	1,427	1,602	1,755	1,887
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	0	0	0	0	239	3	3	3	3	3	3	251	250	246	254	262	271
MATAGORDA	1	0	1	0	0	96	100	75	55	35	22	500	500	500	500	500	500
MILLS	0	0	0	0	0	4	4	4	4	4	4	108	111	115	120	124	130
SAN SABA	0	0	0	0	0	1,088	1,093	944	900	864	838	0	0	0	0	0	0
TRAVIS	0	0	0	0	71	3,502	4,108	4,762	5,374	6,046	6,817	551	622	676	722	772	830
WHARTON	2	1	0	0	0	71	74	55	41	26	17	2	2	2	2	2	2
WILLIAMSON	0	0	0	0	2	5	3	3	3	3	3	1,544	1,823	2,142	2,530	2,914	3,270
Region Total	4,680	4,509	3,740	6,267	2,511	20,848	26,104	27,991	27,492	23,207	25,441	8,223	8,979	9,778	10,663	11,555	11,509

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



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4. Review Draft Mining Projections

Consider Burnet County Revision

5. Review Livestock, Manufacturing, Steam electric projections: consider proposed revisions



Agenda Item 5

Draft Livestock, Manufacturing, and Steam Electric Demand Projections



Agenda Item 5

Review TWDB data release and related deadlines



Livestock

Manufacturing

Steam Electric

Livestock

Same methodology as 2021 RWP

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 RWP

- 2070 – 2080 held constant

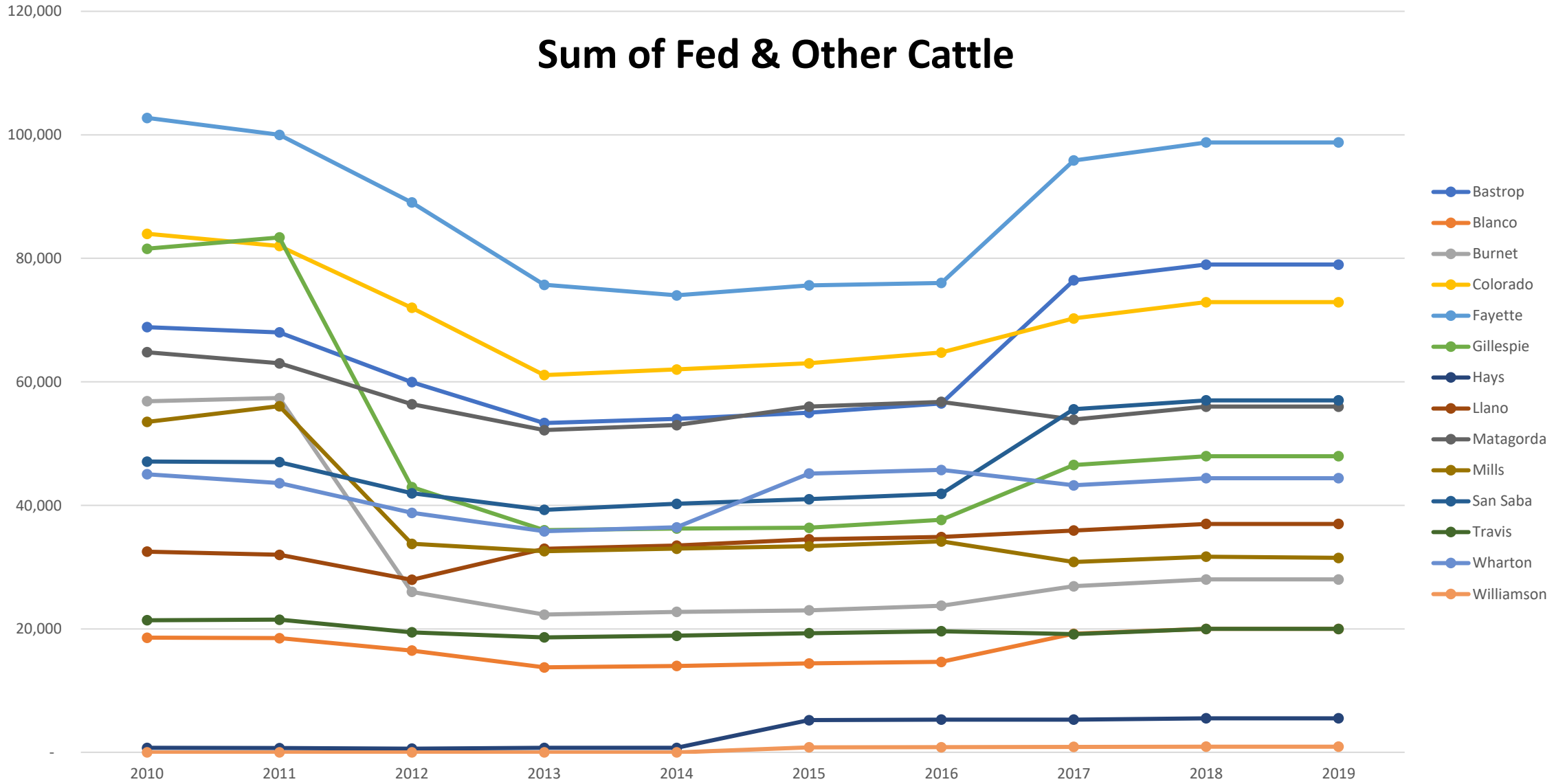
Draft projections released in January 2022

Livestock Water Use Coefficients

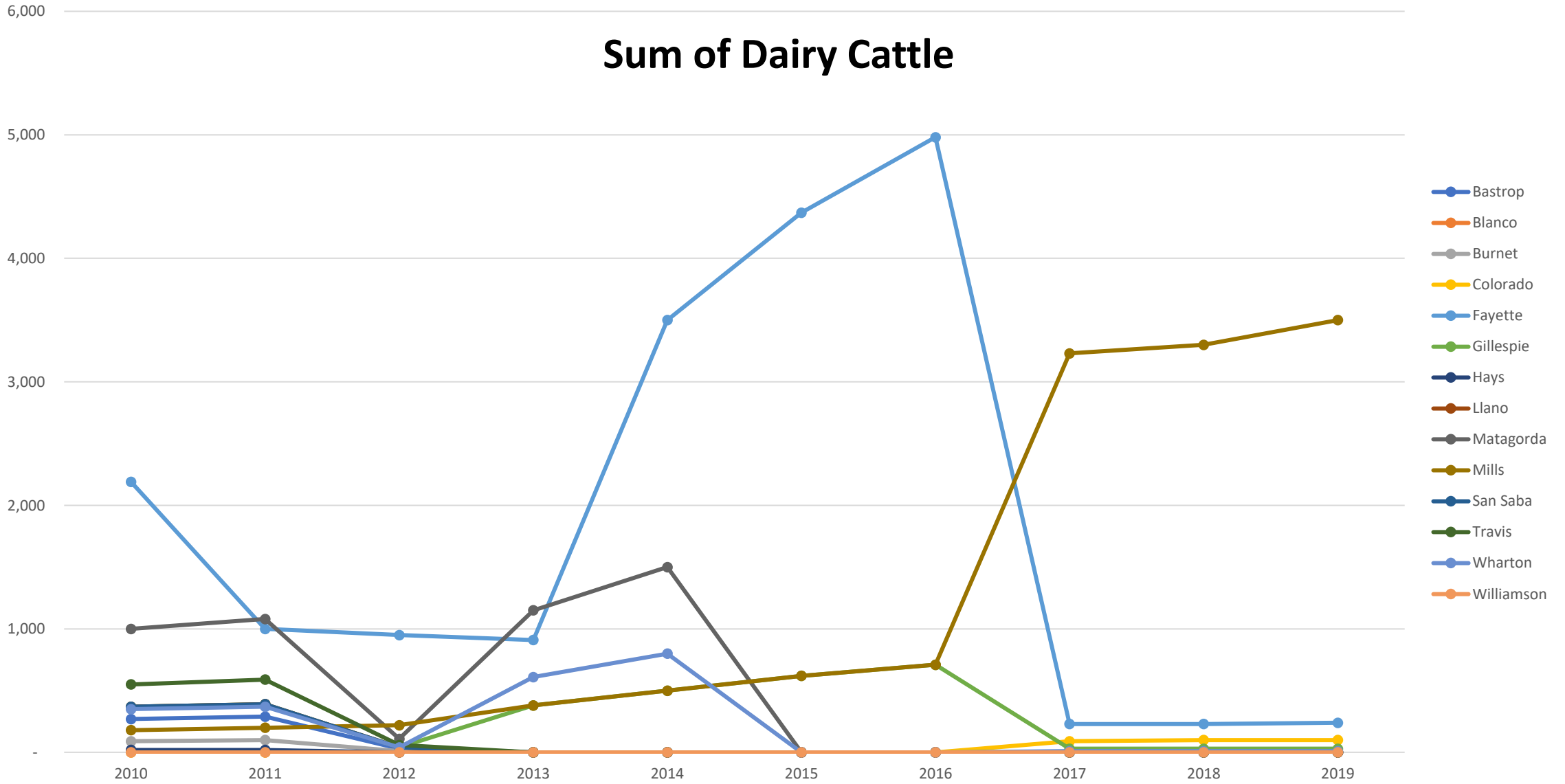
TWDB Category	USDA Data Type	2026 RWP Water Use (gallons/head/day)	2021 RWP Water Use (gallons/head/day)
Cattle	Milk	55	75
	Fed & Other Cattle	15	15
Chickens	Layers	0.09	0.086
	Pullets, Replacement		
	Roosters		
	Broilers	0.09	0.077
Equine	Horses & Ponies	12	12
	Mules, Burros, & Donkeys		
Hogs	Hogs	5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



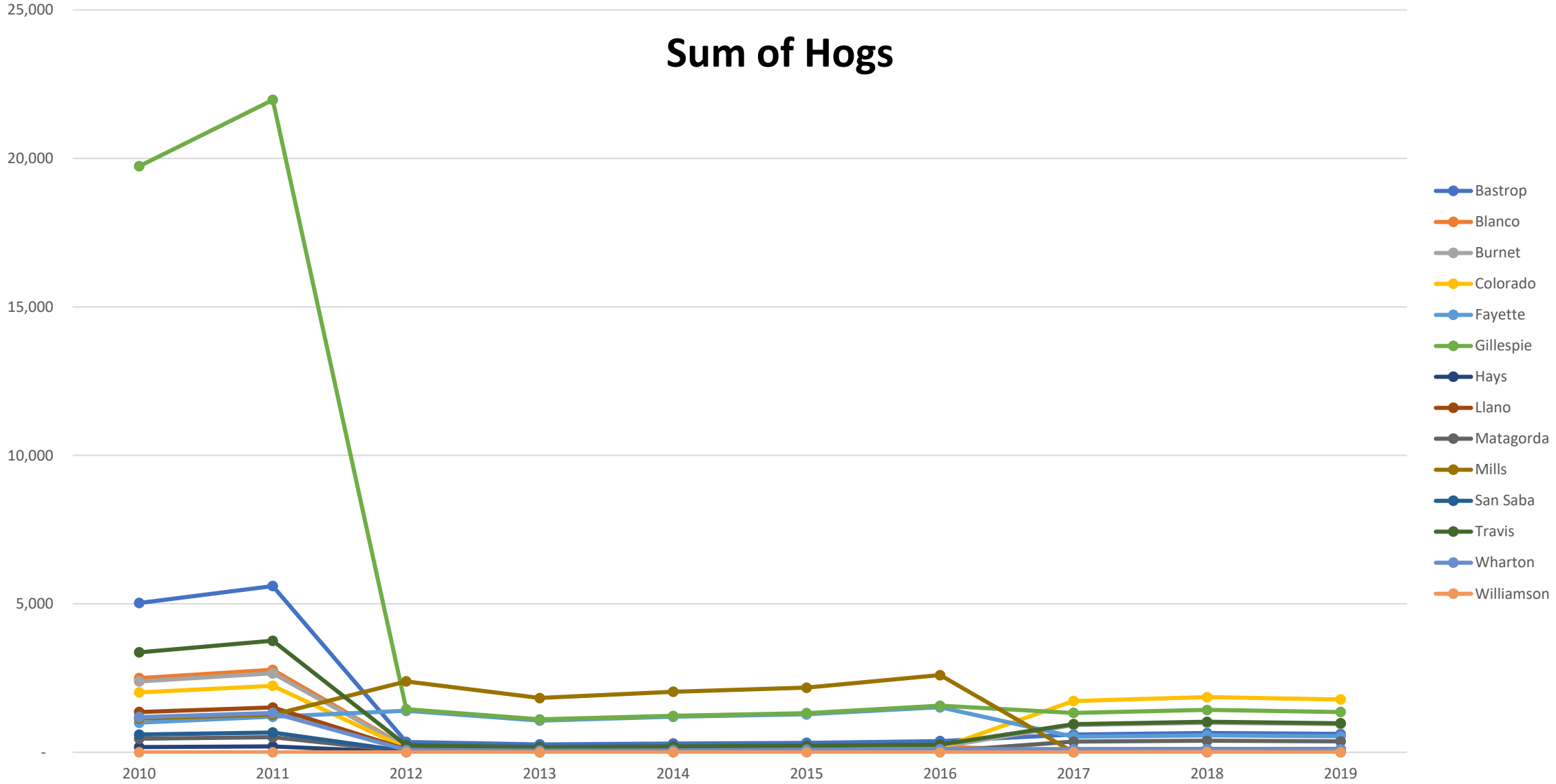
Sum of Fed & Other Cattle



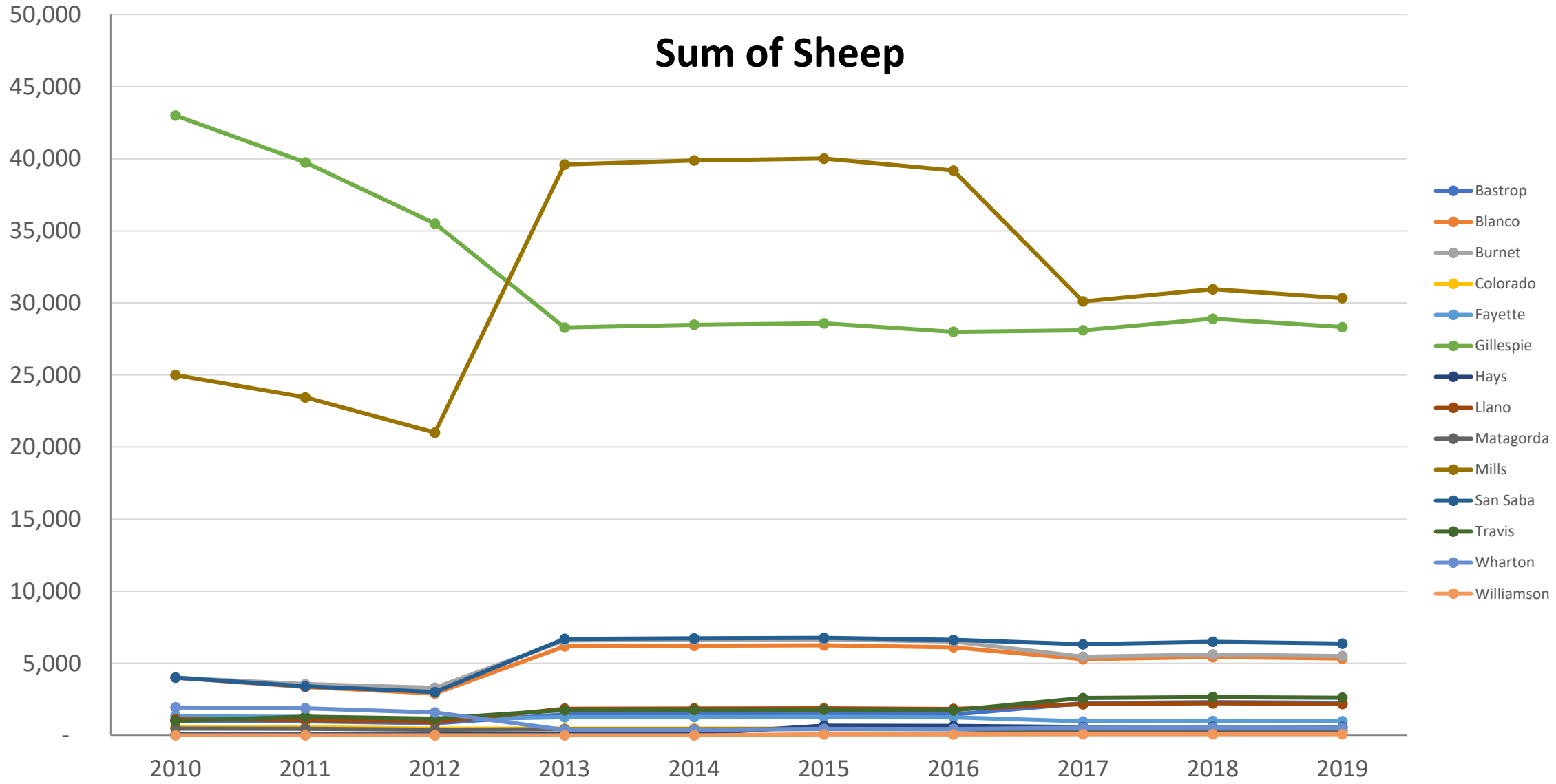
Sum of Dairy Cattle



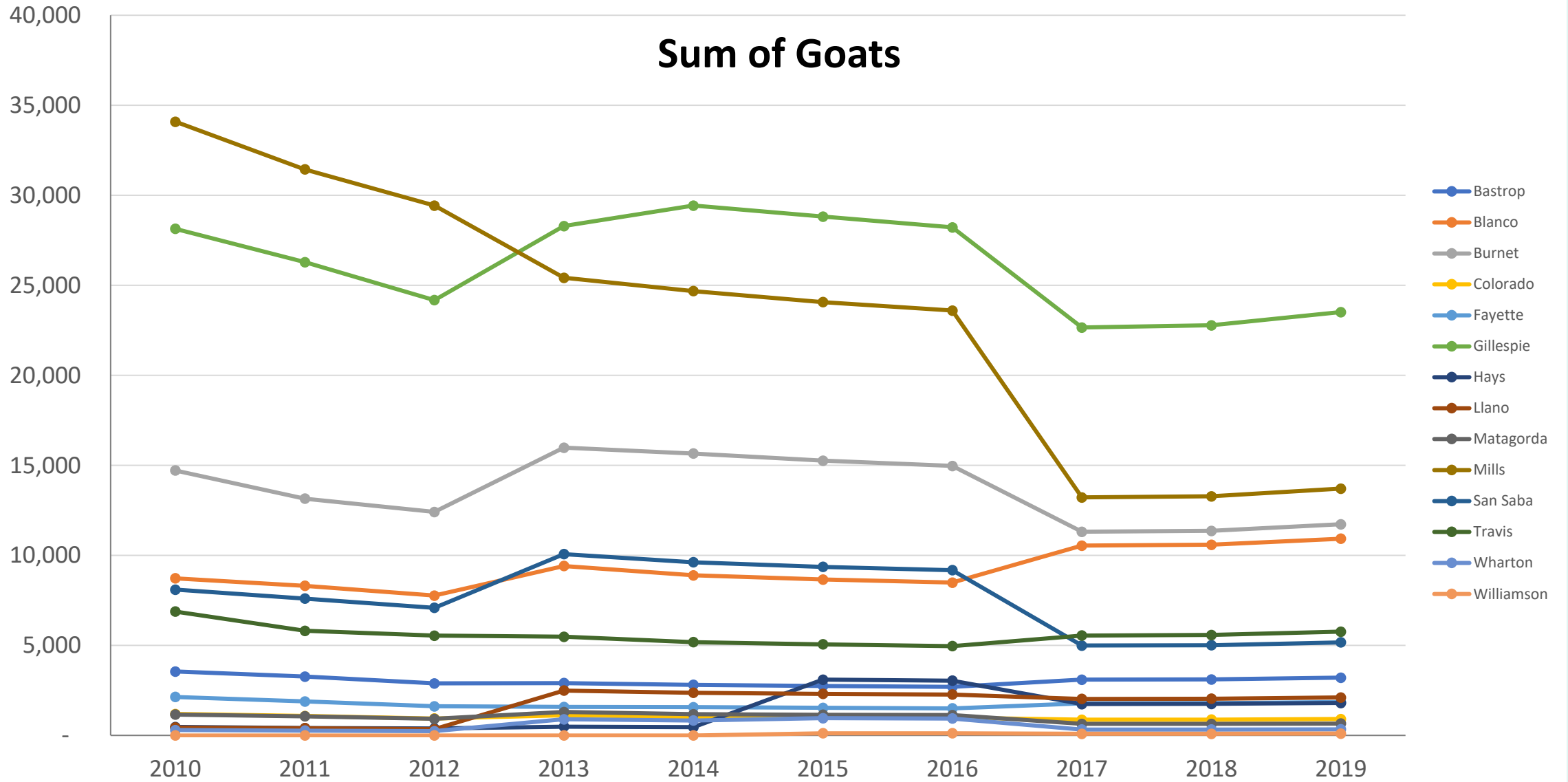
Sum of Hogs



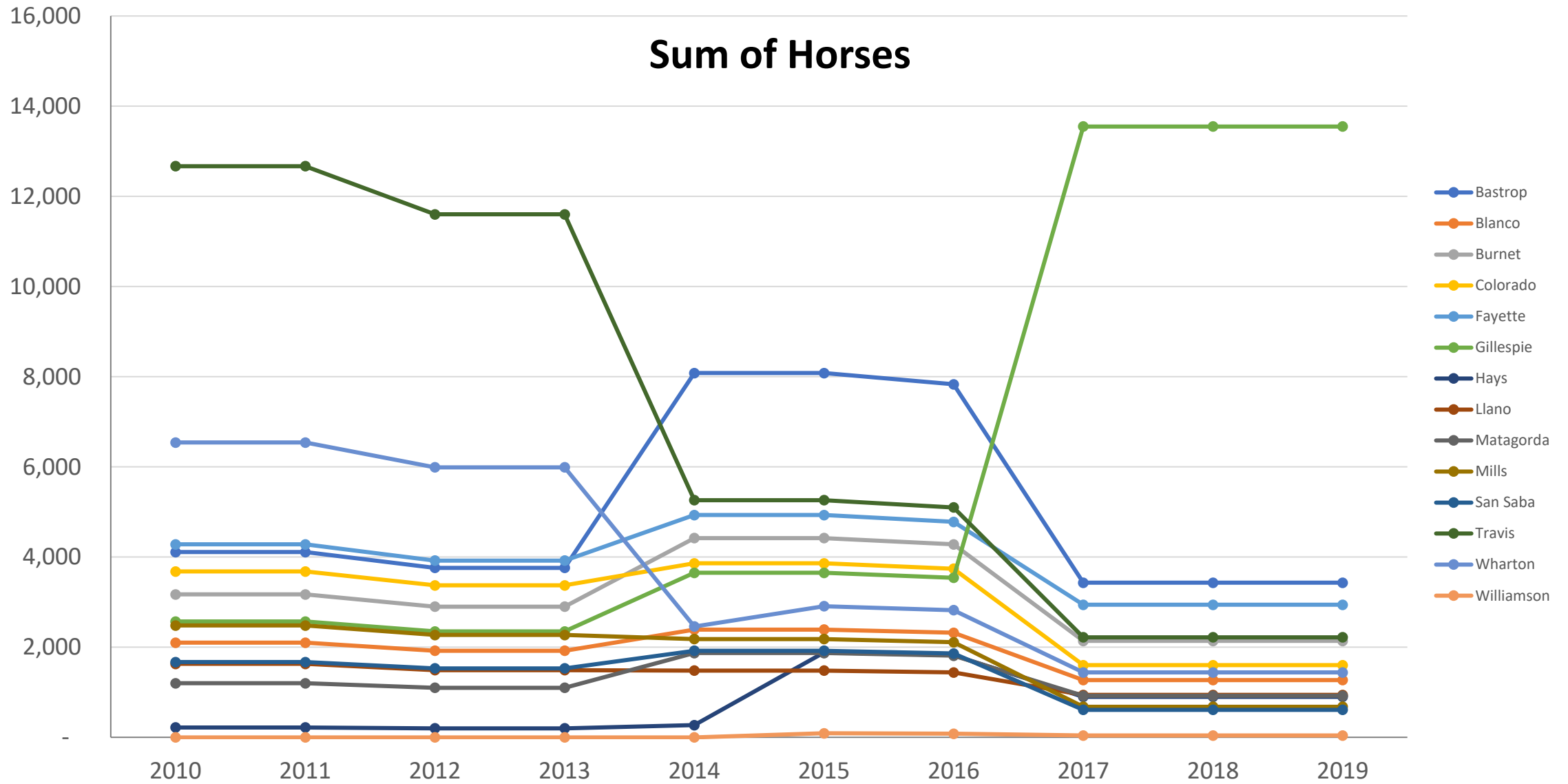
Sum of Sheep



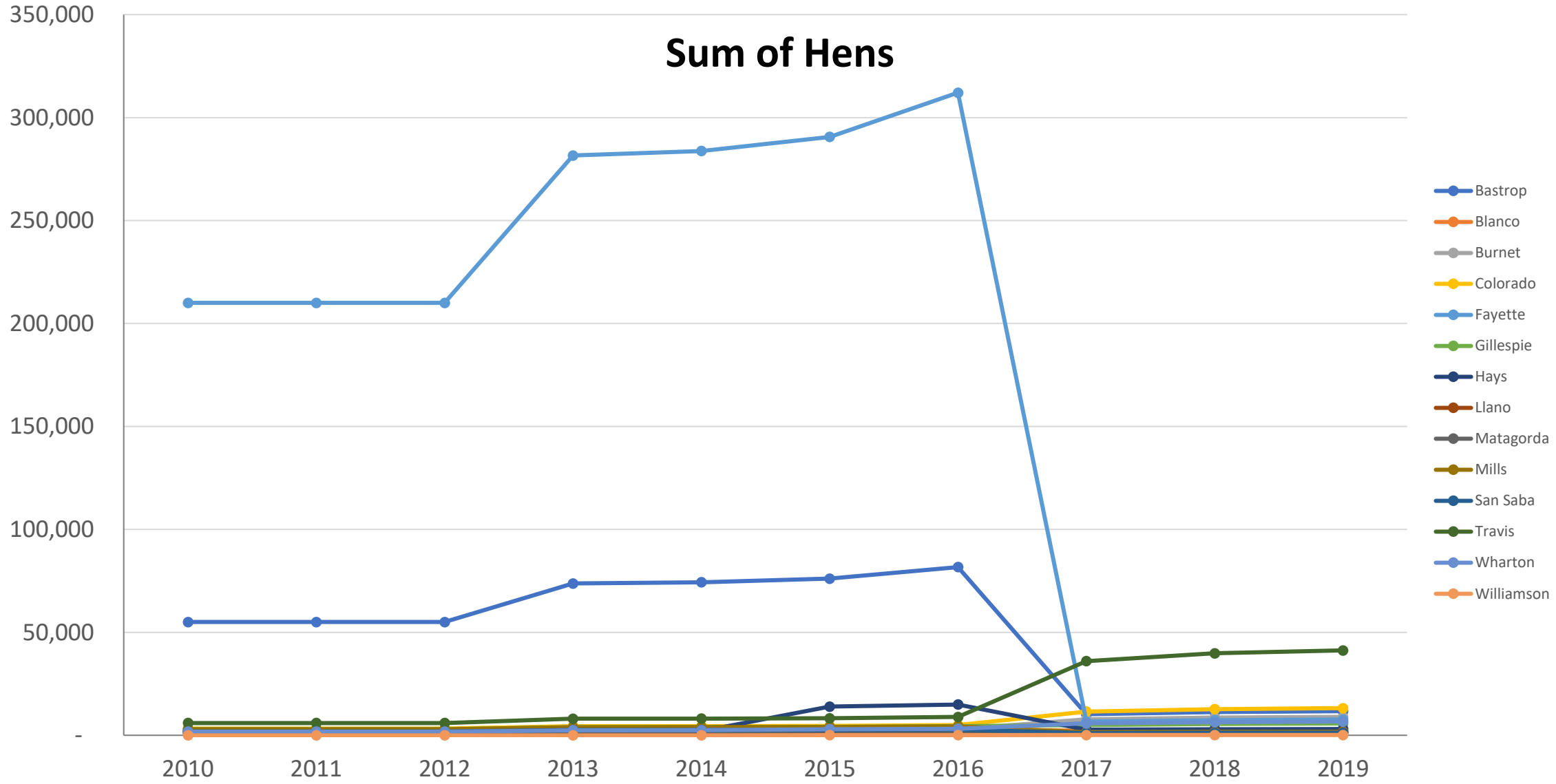
Sum of Goats



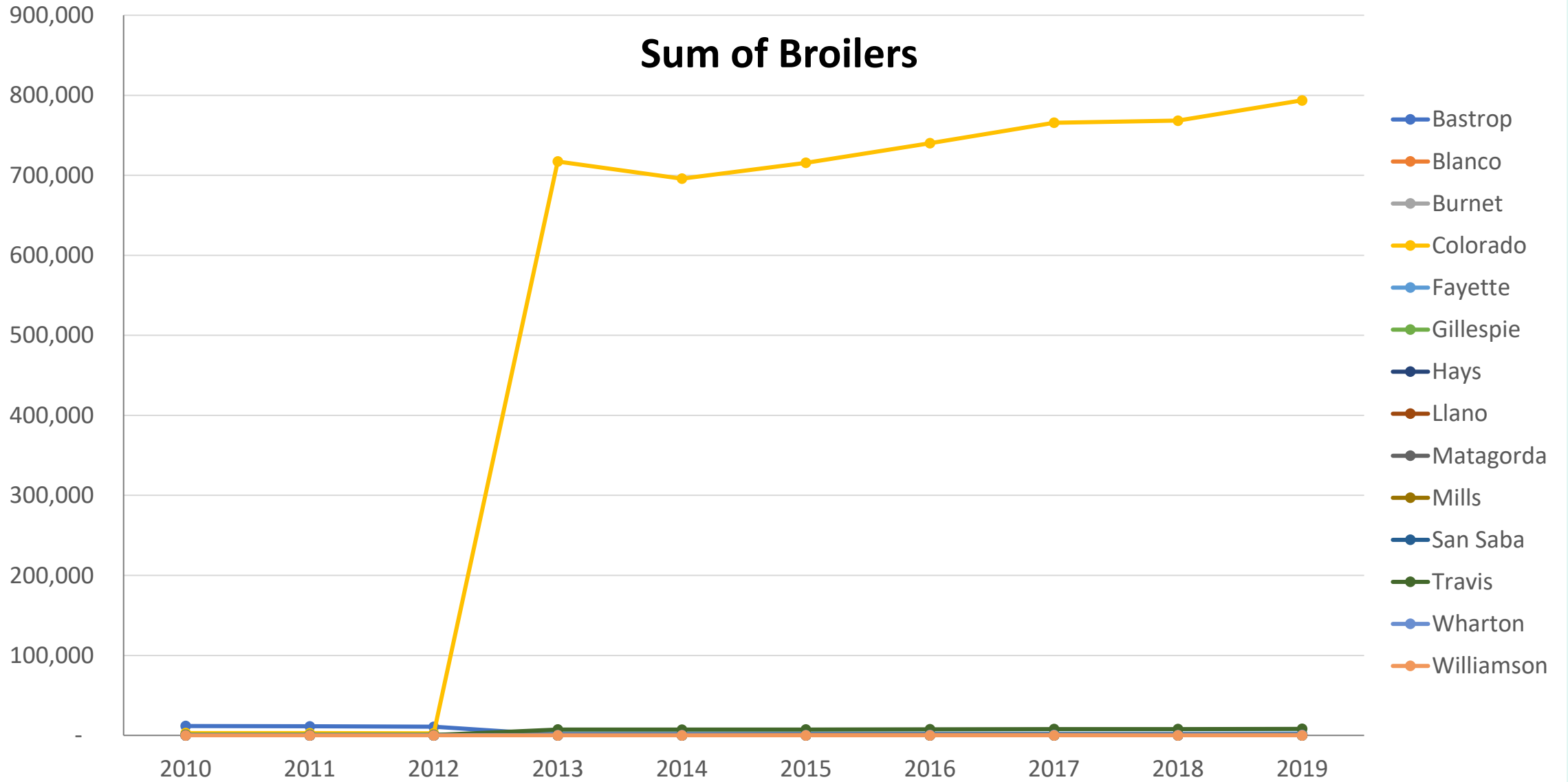
Sum of Horses



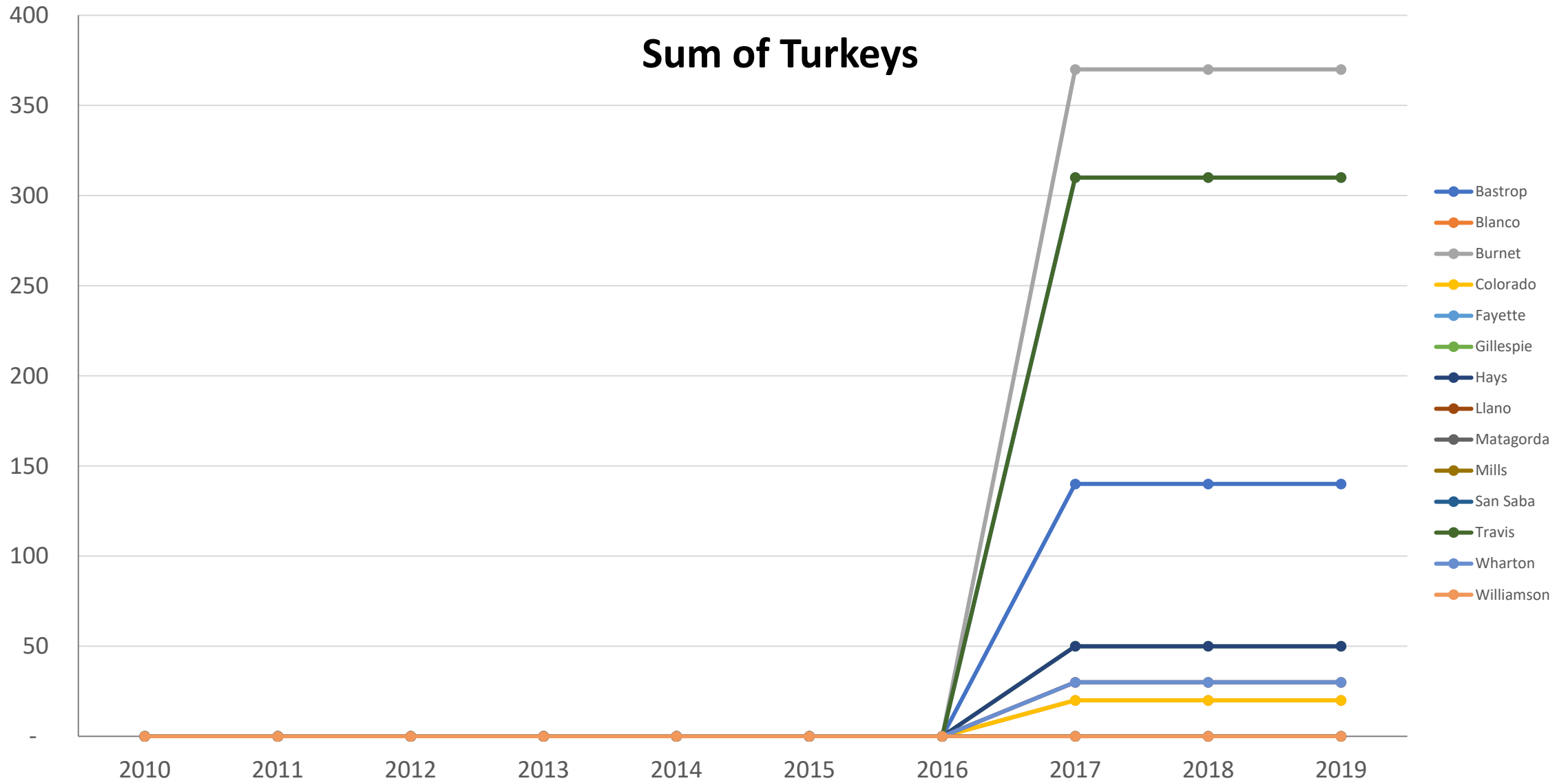
Sum of Hens



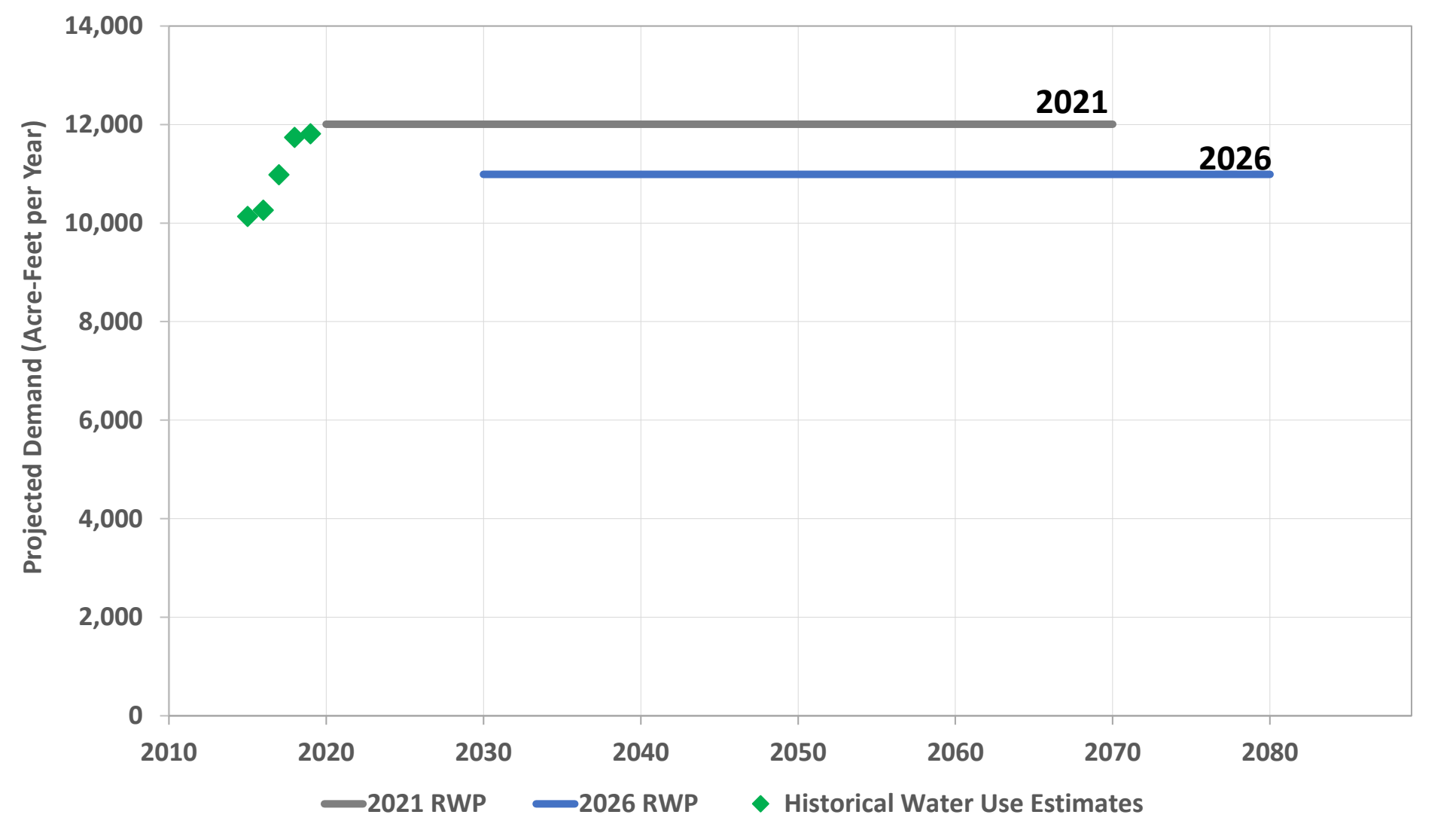
Sum of Broilers



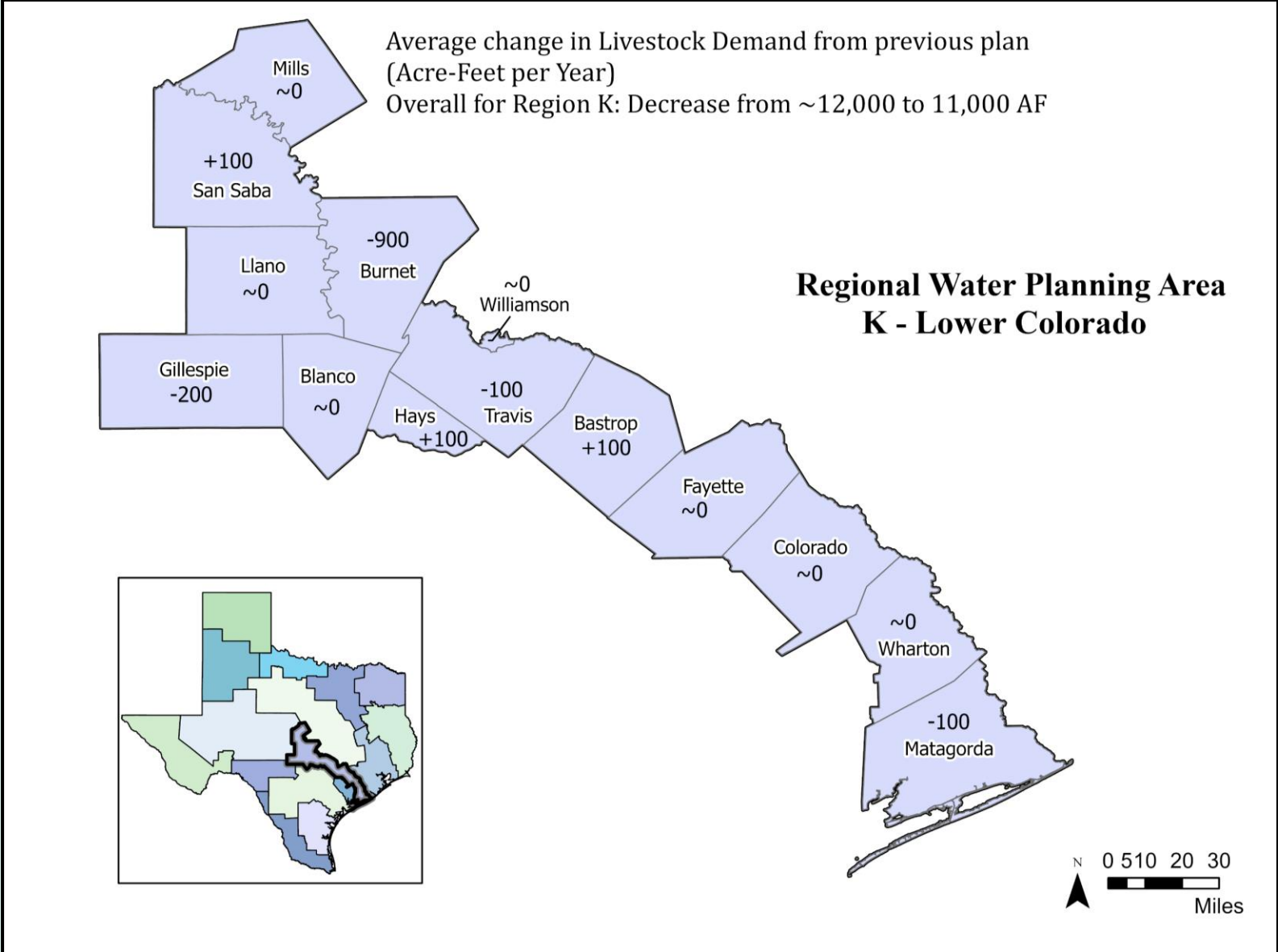
Sum of Turkeys



Draft Livestock Demand Projections for Region K



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

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

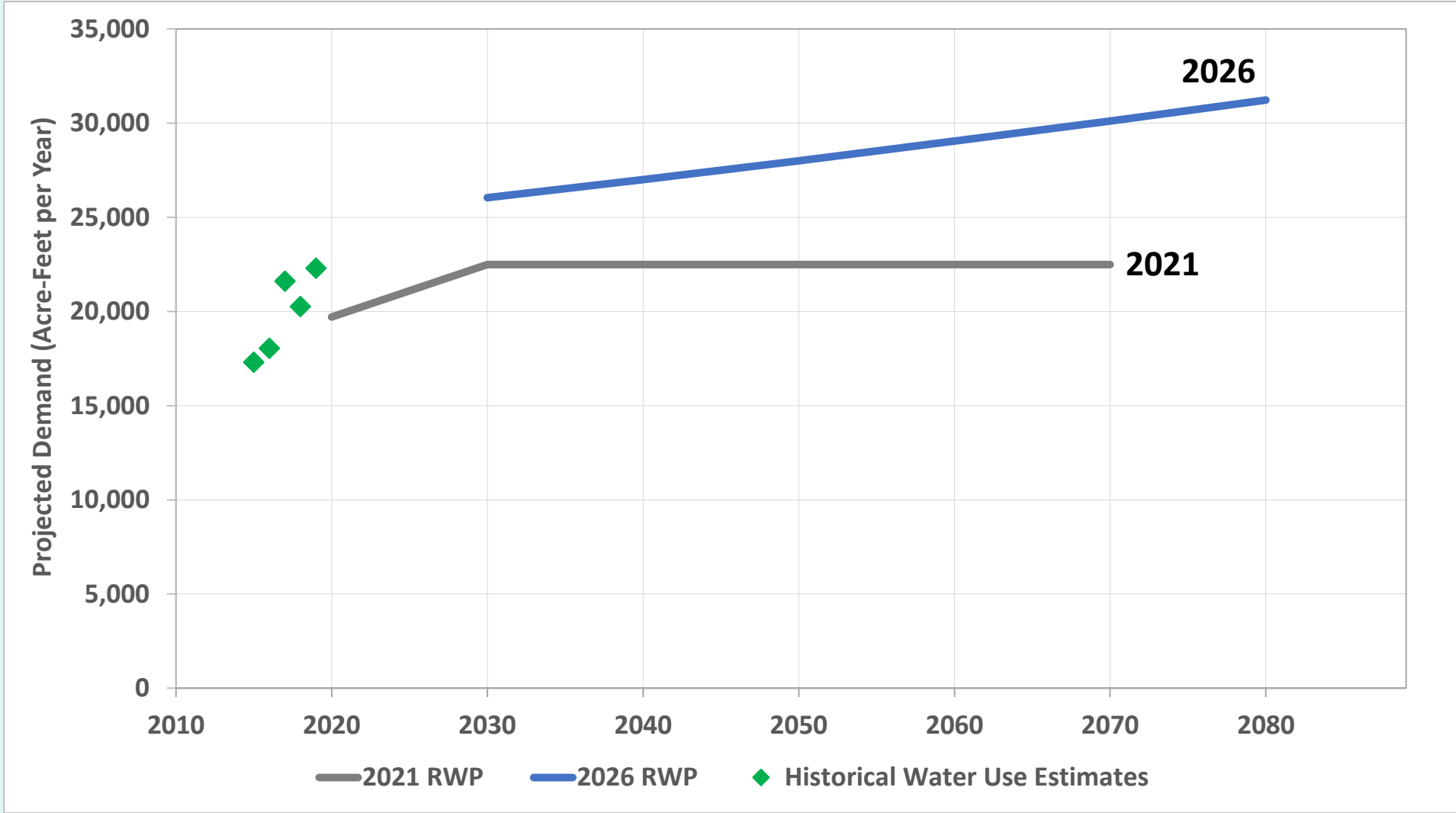


Manufacturing

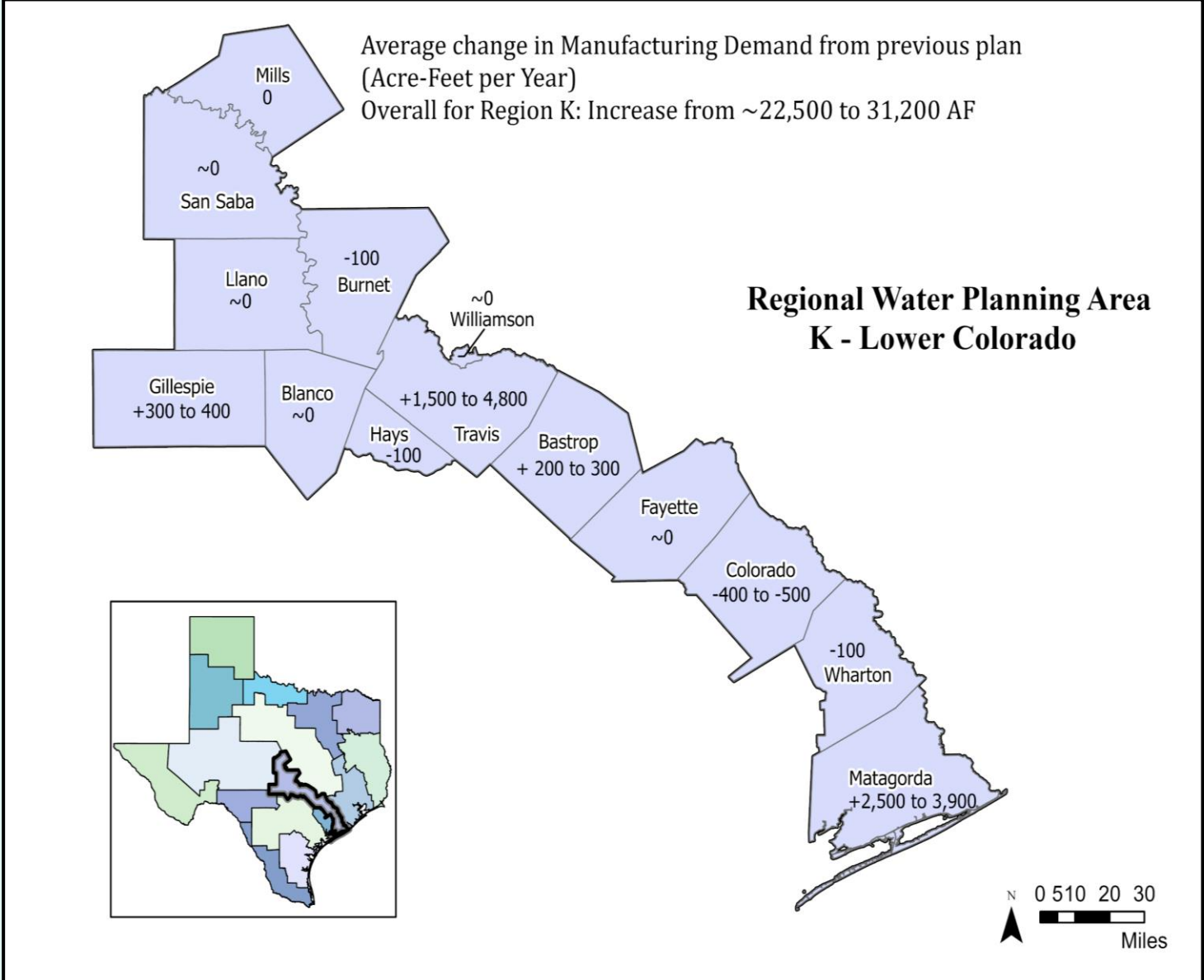
Baseline * 2010-2019 historical water use survey rate of change = 2030

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

Draft Manufacturing Demand Projections for Region K



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



Burnet County Manufacturing

- Southwestern Graphite Co. – add 400 ac-ft/yr all decades.
Not included in historical use or future demand projections.
- US Fish & Wildlife – potentially add 100 ac-ft/yr.
Confirming that this is separate from the Inks Dam National Fish Hatchery, which is included in the Livestock Demand Projections at 272 ac-ft/yr (2015-2019 average).
Normal use may be more like 500 ac-ft/yr.

Matagorda County Manufacturing

- ~~• Magnolia Oil & Gas – add 499 ac-ft/yr to the proposed projections.
———— (need to confirm this is not included in the mining demands)~~

Proposed as an increase in the county mining demands

- Underground Service – Markham – add 9,300 ac-ft/yr to the proposed projections.
- *These two manufacturers were not included in the historic data.*

Travis County Manufacturing

- Alamo Concrete Products Co. – add 400 ac-ft/yr all decades.
Not included in historical use or future demand projections.
- Future Industrial User – add 30,000 ac-ft/yr all decades.
Not included in historical use or future demand projections.
- TXI Operations, LP – add 62 ac-ft/yr all decades.
Only included in 2011-2012 data, not 2015-2019 data.

Wharton County Manufacturing

- Future Industrial User – add 20,000 ac-ft/yr (2050-2080).
Not included in historical use or future demand projections.

Proposed Manufacturing Demand Projections for Region K

County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 PROPOSED Regional Water Plan Projections					
	2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
BASTROP	99	71	167	245	350	188	215	215	215	215	215	414	429	445	461	478	496
BLANCO	0	0	0	0	0	0	0	0	0	0	0	16	17	18	19	20	21
BURNET	137	101	105	71	92	251	299	299	299	299	299	156	162	168	174	180	187
COLORADO	532	539	500	513	509	960	1,132	1,132	1,132	1,132	1,132	593	615	638	662	686	711
FAYETTE	363	318	277	259	311	396	442	442	442	442	442	399	414	429	445	461	478
GILLESPIE	19	25	321	314	314	77	93	93	93	93	93	388	402	417	432	448	465
HAYS	134	106	119	119	131	277	324	324	324	324	324	181	188	195	202	209	217
LLANO	3	1	2	2	2	3	4	4	4	4	4	3	3	3	3	3	3
MATAGORDA	3,954	4,392	5,464	4,740	6,688	4,199	4,916	4,916	4,916	4,916	4,916	17,177	17,450	17,733	18,027	18,331	18,647
MILLS	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
SAN SABA	5	5	5	4	17	10	12	12	12	12	12	19	20	21	22	23	24
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
WHARTON	49	51	57	60	59	156	171	171	171	171	171	79	82	85	88	91	94
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	35,842	36,807	37,807	38,844	39,917	41,033

Proposed Manufacturing Demand Projections for Region K (Revised)

County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 PROPOSED Regional Water Plan Projections					
	2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
BASTROP	99	71	167	245	350	188	215	215	215	215	215	414	429	445	461	478	496
BLANCO	0	0	0	0	0	0	0	0	0	0	0	16	17	18	19	20	21
BURNET	137	101	105	71	92	251	299	299	299	299	299	656	662	668	674	680	687
COLORADO	532	539	500	513	509	960	1,132	1,132	1,132	1,132	1,132	593	615	638	662	686	711
FAYETTE	363	318	277	259	311	396	442	442	442	442	442	399	414	429	445	461	478
GILLESPIE	19	25	321	314	314	77	93	93	93	93	93	388	402	417	432	448	465
HAYS	134	106	119	119	131	277	324	324	324	324	324	181	188	195	202	209	217
LLANO	3	1	2	2	2	3	4	4	4	4	4	3	3	3	3	3	3
MATAGORDA	3,954	4,392	5,464	4,740	6,688	4,199	4,916	4,916	4,916	4,916	4,916	16,678	16,951	17,234	17,528	17,832	18,148
MILLS	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
SAN SABA	5	5	5	4	17	10	12	12	12	12	12	19	20	21	22	23	24
TRAVIS	12,002	12,424	14,576	13,918	13,816	13,164	14,853	14,853	14,853	14,853	14,853	46,863	47,470	48,099	48,752	49,429	50,131
WHARTON	49	51	57	60	59	156	171	171	171	171	171	20,079	20,082	20,085	20,088	20,091	20,094
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	86,305	87,270	88,270	89,307	90,380	91,496

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

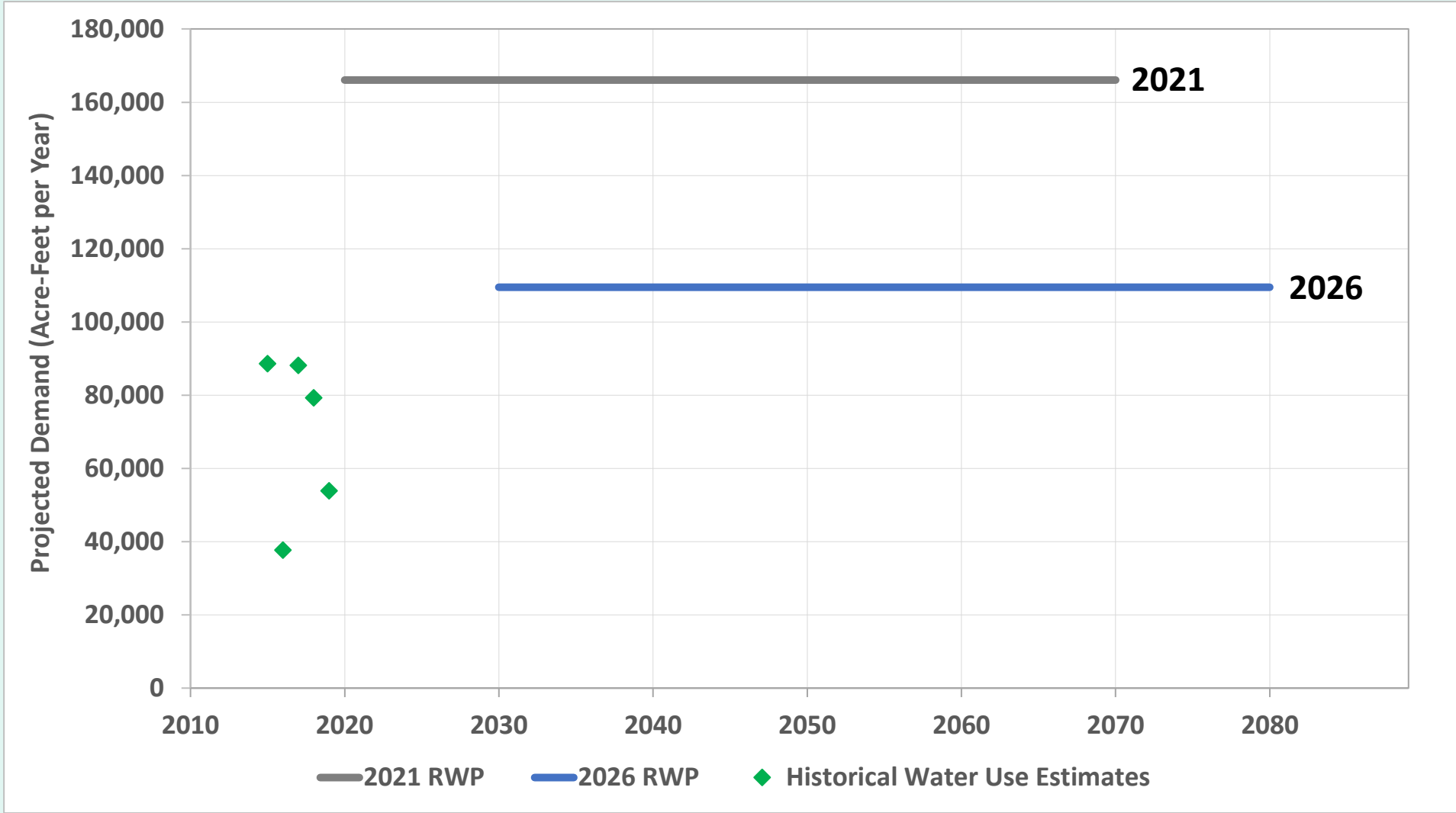
2030 – 2080 held constant

Same methodology as the 2021 RWP

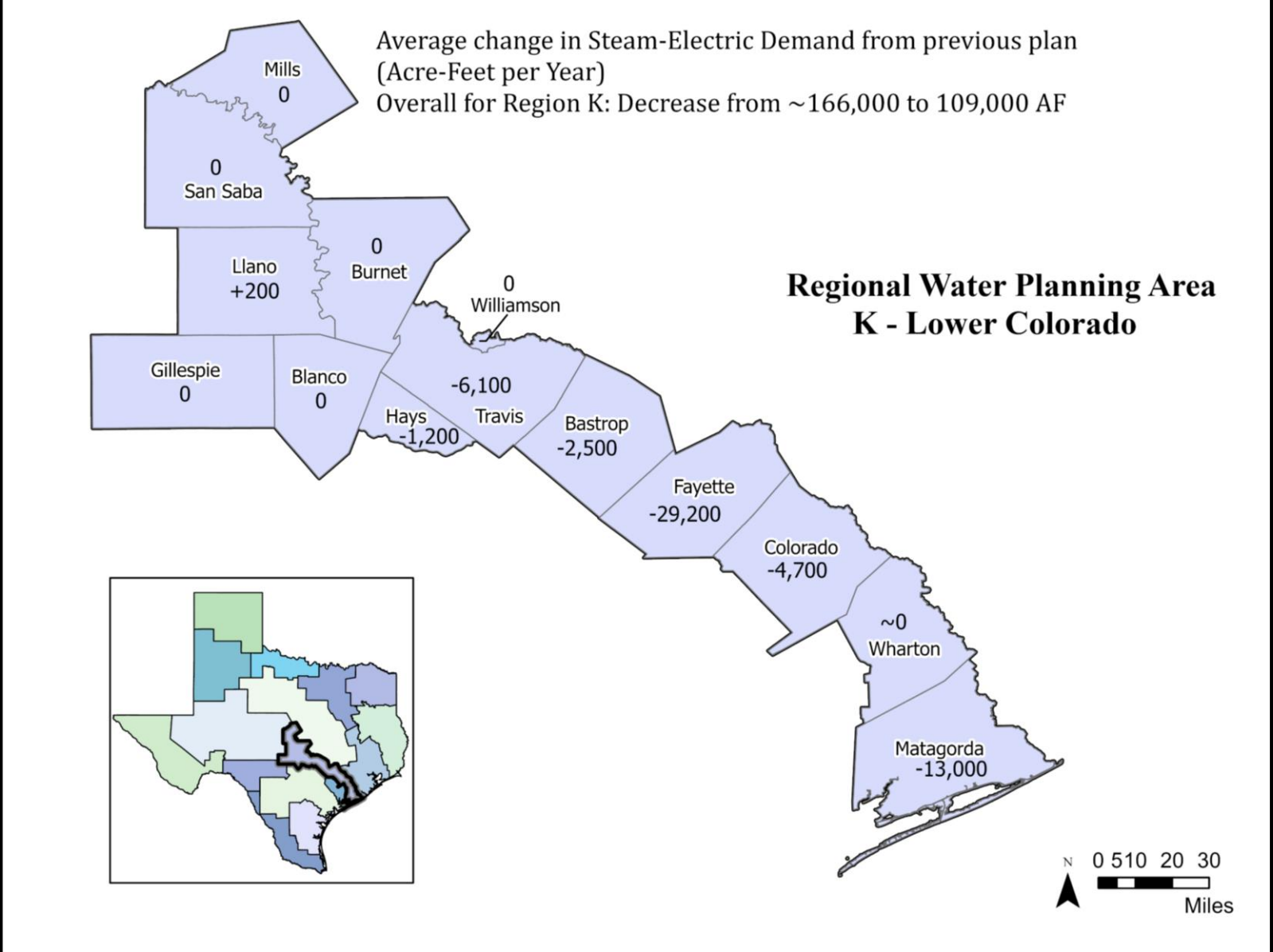
Draft projections released in January 2022



Draft Steam-Electric Demand Projections for Region K



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



Adjustments in the Steam Electric Projections

- Travis County
 - Decker Power Plant used 1,696 in 2019 (highest in last 5 years)
 - Should be removed from the projections.
- Fayette County – Fayette Power Plant
 - Fayette Plant used 13,077 ac-ft/yr in 2018 (highest in last 5 years)
 - Expected to be decommissioned 2030 to 2040.
 - Should be removed from projections by 2050.

Confirmed Facility inclusion in the database



WUS Survey Number	EIA Plant No.	Survey Name	Region	County	Basin	NAICS Definition	Included in 2022 SWP?	Included in 2027 SWP?	2015	2016	2017	2018	2019
517650	3601	LCRA-SIM GIDEON POWER PLANT	K	BASTROP	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	5,519	3,272	5,080	5,254	5,521
1102919	55168	BASTROP ENERGY PARTNERS LP	K	BASTROP	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	2,245	2,572	1,825	1,864	1,797
1104186	55154	LCRA-LOST PINES 1 POWER PROJECT	K	BASTROP	COLORADO	Fossil Fuel Electric Power Generation	Y	N	0	0	0	0	0
1105022	59938	SKY GLOBAL POWER ONE PLEDGOR LLC	K	COLORADO	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	0	0	0	0	0
517680	6179	LCRA-FAYETTE POWER PLANT	K	FAYETTE	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	5,717	5,353	12,196	13,077	9,302
41036	56674	AUSTIN-FAYETTEVILLE POWER STATION	K	FAYETTE	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	3,621	3,141	6,379	6,975	4,721
517675	4937	LCRA-T C FERGUSON POWER PLANT	K	LLANO	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	1,733	1,927	1,762	1,446	1,054
397560	6251	STP NUCLEAR OPERATING COMPANY-STP	K	MATAGORDA	COLORADO-LAVACA	Nuclear Electric Power Generation	Y	Y	67,453	16,715	57,068	46,278	25,134
1101880	7900	AUSTIN-SAND HILL POWER PLANT	K	TRAVIS	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	1,475	1,421	1,250	1,252	2,338
41027	3548	AUSTIN-DECKER CREEK POWER STATION	K	TRAVIS	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	846	705	771	1,346	1,696
1104160	56374	AUSTIN ENERGY- MUELLER ENERGY CENTER	K	TRAVIS	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	0	82	82	82	82
1103909	56350	COLORADO BEND ENERGY CENTER	K	WHARTON	COLORADO	Fossil Fuel Electric Power Generation	Y	Y	0	2,436	1,683	1,681	2,212
1103583	50137	GDF SUEZ NORTH AMERICA-WHARTON COUNTY	K	WHARTON	BRAZOS-COLORADO	Fossil Fuel Electric Power Generation	Y	Y	3	13	4	15	5
	60122	Colorado Bend II	K	WHARTON	COLORADO	Fossil Fuel Electric Power Generation	Y	Y					



Proposed Steam-Electric Demand Projections for Region K

County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 PROPOSED Regional Water Plan Projections					
	2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
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
BLANCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BURNET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORADO	0	0	0	0	0	4,971	4,971	4,971	4,971	4,971	4,971	226	226	226	226	226	226
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	6,975	6,975	6,975	6,975
GILLESPIE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYS	0	0	0	0	0	1,187	1,187	1,187	1,187	1,187	1,187	0	0	0	0	0	0
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
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
MILLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAN SABA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAVIS	2,321	2,208	2,103	2,680	4,116	10,253	10,253	10,253	10,253	10,253	10,253	2,420	2,420	2,420	2,420	2,420	2,420
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
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	107,755	107,755	94,678	94,678	94,678	94,678



Key Dates/Events in the next 7 months



- 1. Early February:** P&WD Committee – focus on all non-municipal demands
- 2. February:** draft population and municipal demand projections from TWDB – begin review and discussion of requests for changes in each county
- 3. Early March:** P&WD Committee meets - first discussion of draft municipal demands and required changes
- 4. Late April:** Region K meeting – goal is to have non-municipal demands ready to bring forward
- 5. April-June:** work continues on any requests for changes to population and municipal demands in each county, P&WD Committee meetings as needed
- 6. July 14:** Requests for revisions for non-municipal demands are due to the TWDB
- 7. late July:** Region K meeting – goal is to have recommendations for population and municipal demands ready to bring forward
- 8. August:** Requests for revisions for municipal demands are due to the TWDB