

NOTICE OF OPEN MEETING OF THE  
SOUTH CENTRAL TEXAS  
REGIONAL WATER PLANNING  
POPULATION AND WATER  
DEMANDS WORK GROUP

TAKE NOTICE that a meeting of the Population and Water Demands Work Group, as established by the South Central Texas Regional Water Planning Group (SCTRWPG) will be held on Thursday, January 19, 2023, at 2:00 PM both in person and virtually. The in-person meeting will be held at the San Antonio Water System's Customer Service Building, Room CR-145, 2800 US Hwy 281 North, San Antonio, TX 78212. You can attend virtually on WebEx at <https://saws.webex.com/saws/j.php?MTID=m09cd6aa829865fc3c7ca6f5436d3fdf2>. The following subjects will be considered for discussion and/or action at said meeting.

1. Discussion and Appropriate Action Regarding a Recommendation for Feedback to TWDB on Non-Municipal Water Demands Data
  - a. Manufacturing
  - b. Livestock
  - c. Steam-Electric
  - d. Irrigation

Comments and submissions may be submitted through email to [ccastillo@sariverauthority.org](mailto:ccastillo@sariverauthority.org). Any written documentation can be sent to Tim Andruss, Chair, South Central Texas Regional Water Planning Group, c/o San Antonio River Authority, Attn: Caye Castillo, 201 W. Sheridan Street, San Antonio, TX 78204. Please direct any questions to Caye Castillo at (210) 302-4258.

# **Agenda Item 1.a:** **Review Released Draft Data from TWDB:** **Manufacturing Projections and Supporting** **Data**

# Recap: Manufacturing Demands

- Texas Water Development Board (TWDB) released draft 2026 water demand projections and supporting data (Draft 2026 Demands) in Jan 2022
- Region L Regional Water Planning Group (RWPG) received presentation on Draft 2026 Demands in May 2022
- Population and Water Demands (PWD) Workgroup reviewed Draft 2026 Demands data at meetings in April and November 2022. The PWD Workgroup:



Approved use of Draft 2026 Demands for certain counties = 14



Requested additional information for certain counties = 7

# Draft Water Demands: Manufacturing Summary

2026 DRAFT Regional Water Plan Projections (acft/yr)								
No.	County	Status	2030	2040	2050	2060	2070	2080
1	ATASCOSA	✓	56	58	60	62	64	66
2	BEXAR	🔍	8,873	9,201	9,541	9,894	10,260	10,640
3	CALDWELL	✓	14	15	16	17	18	19
4	CALHOUN	✓	54,587	56,607	58,701	60,873	63,125	65,461
5	COMAL	🔍	3,503	3,633	3,767	3,906	4,051	4,201
6	DIMMIT	✓	0	0	0	0	0	0
7	DEWITT	✓	248	257	267	277	287	298
8	FRIO	✓	0	0	0	0	0	0
9	GOLIAD	🔍	0	0	0	0	0	0
10	GONZALES	✓	2,311	2,397	2,486	2,578	2,673	2,772

## Legend














Approved by PWD Workgroup



Discussion and Possible Action Today

# Draft Water Demands: Manufacturing Summary (cont'd)

2026 DRAFT Regional Water Plan Projections (acft/yr)								
No.	County	Status	2030	2040	2050	2060	2070	2080
11	GUADALUPE		3,194	3,312	3,435	3,562	3,694	3,831
12	HAYS (PARTIAL)		57	59	61	63	65	67
13	KARNES		69	72	75	78	81	84
14	KENDALL		46	48	50	52	54	56
15	LA SALLE		0	0	0	0	0	0
16	MEDINA		15	16	17	18	19	20
17	REFUGIO		0	0	0	0	0	0
18	UVALDE		0	0	0	0	0	0
19	VICTORIA		33,052	34,275	35,543	36,858	38,222	39,636
20	WILSON		62	64	66	68	71	74
21	ZAVALA		732	759	787	816	846	877
TOTAL			106,819	110,773	114,872	119,122	123,530	128,102

## Legend

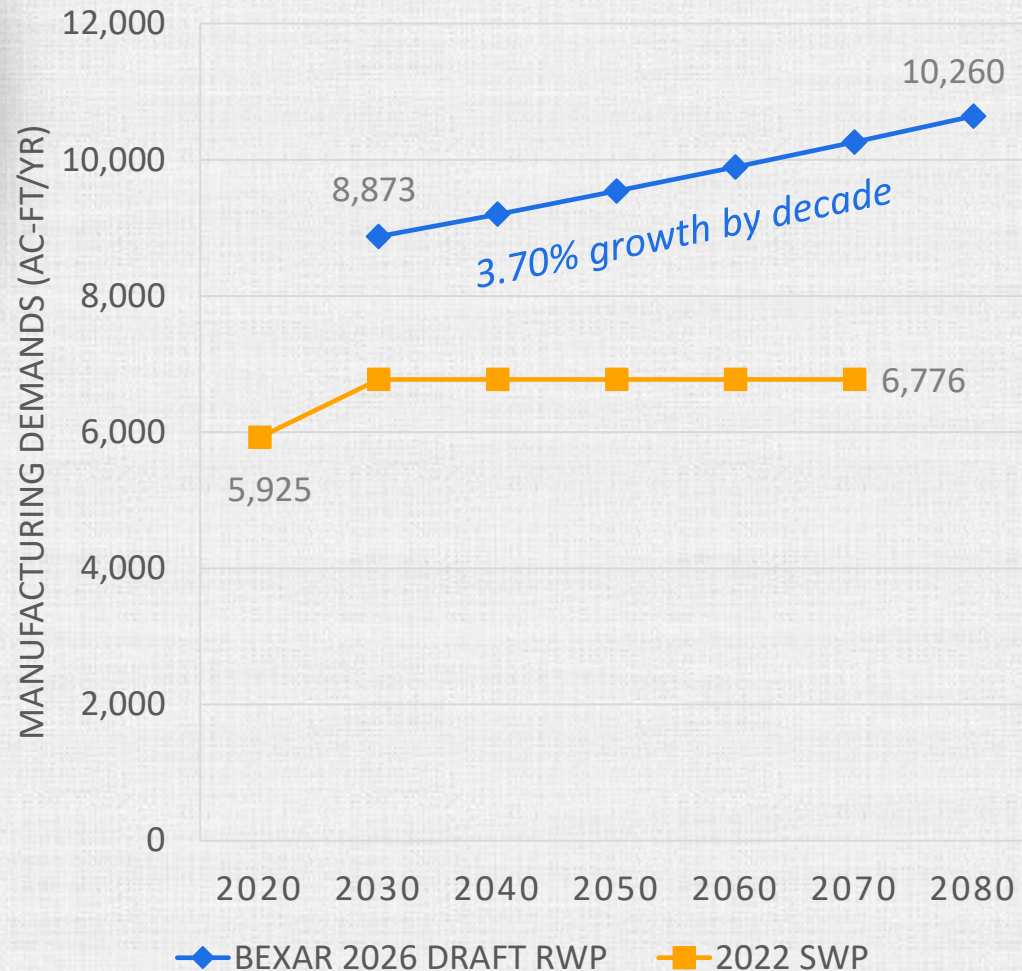




Approved by PWD Workgroup



Discussion and Possible Action Today

# Draft Water Demand Projections: Bexar County Manufacturing

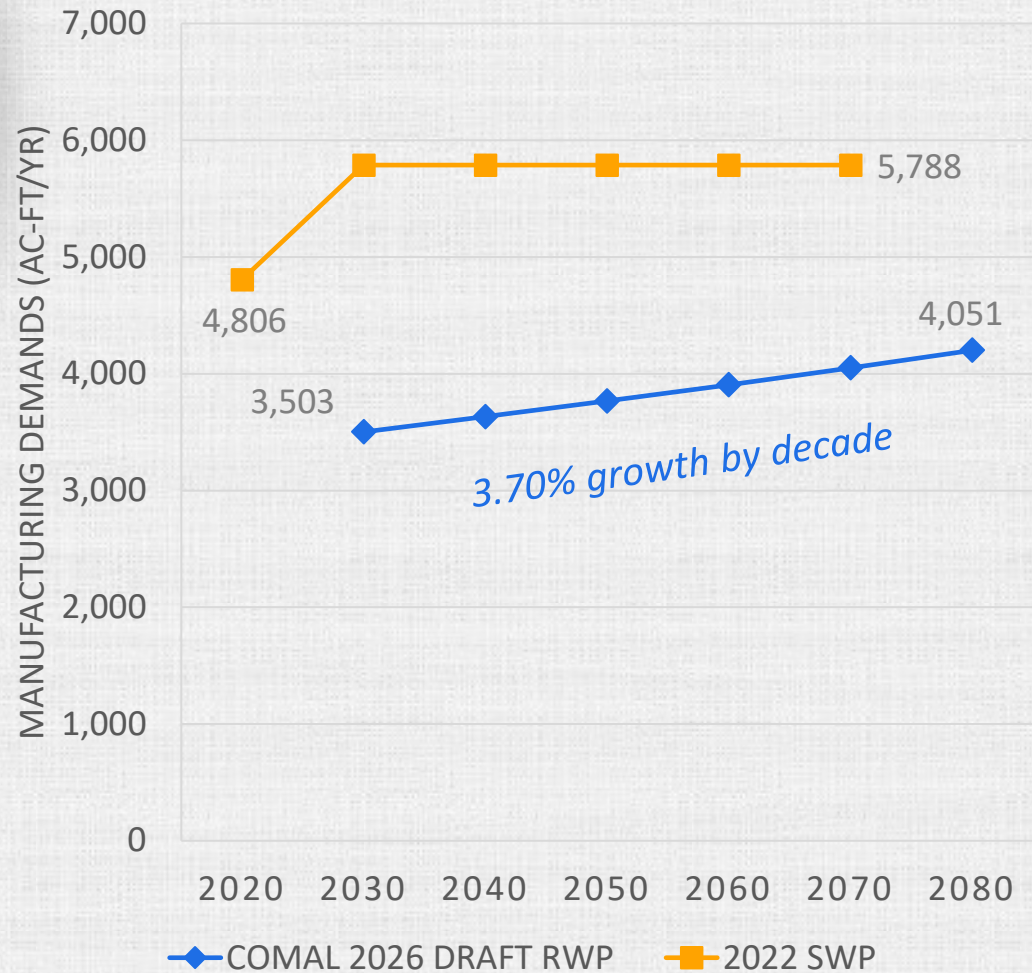


- **2019 Reported Users:** 65 (list on next slide)
- **Water Source:** Groundwater, Surface water, Reuse
- **Unaccounted Use:** 249 ac-ft/yr
-  *SAWS and SAMA reviewed draft manufacturing projections.*
-  *No changes proposed.*


Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
6,244	6,585	6,735	7,128	7,847




# Draft Water Demand Projections: Comal County Manufacturing



- **Water Source:** Groundwater, Surface water, Reuse
- **Unaccounted Use:** 11 ac-ft/yr

 *Jonathan Stinson contacted representatives to determine if CEMEX BALCONES PLANT & QUARRY are still operating because they last reported Manufacturing water use in 2015.*

 *The facility is open but Manufacturing data and demands needs to be adjusted (see next slide).*

Historical Water Use Estimates (ac-ft/yr)

2015	2016	2017	2018	2019
3,185	650	710	811	778

# Draft Water Demand Projections: Comal County Manufacturing



Supporting Manufacturing data from TWDB shows two CEMEX Balcones Facilities:

- BALCONES PLANT- CEMEX CONSTRUCTION MATERIALS SOUTH LLC
- BALCONES QUARRY- CEMEX CONSTRUCTION MATERIALS SOUTH LLC
  - Erroneously included in Manufacturing Demands Supporting Data (2012-2015), resulting in artificial increase of 2015 Comal County Manufacturing Demands.
  - Correctly included in Mining Demands Supporting Data (2016-2019).



Proposal:

- Remove Balcones Quarry from the Comal County Manufacturing Historical Water Use Estimate in 2015. Results in reduction from 3,185 ac-ft/yr to 737 ac-ft/yr.

## Adjusted Historical Water Use Estimates (ac-ft/yr)

2015	2016	2017	2018	2019
737	650	710	811	778

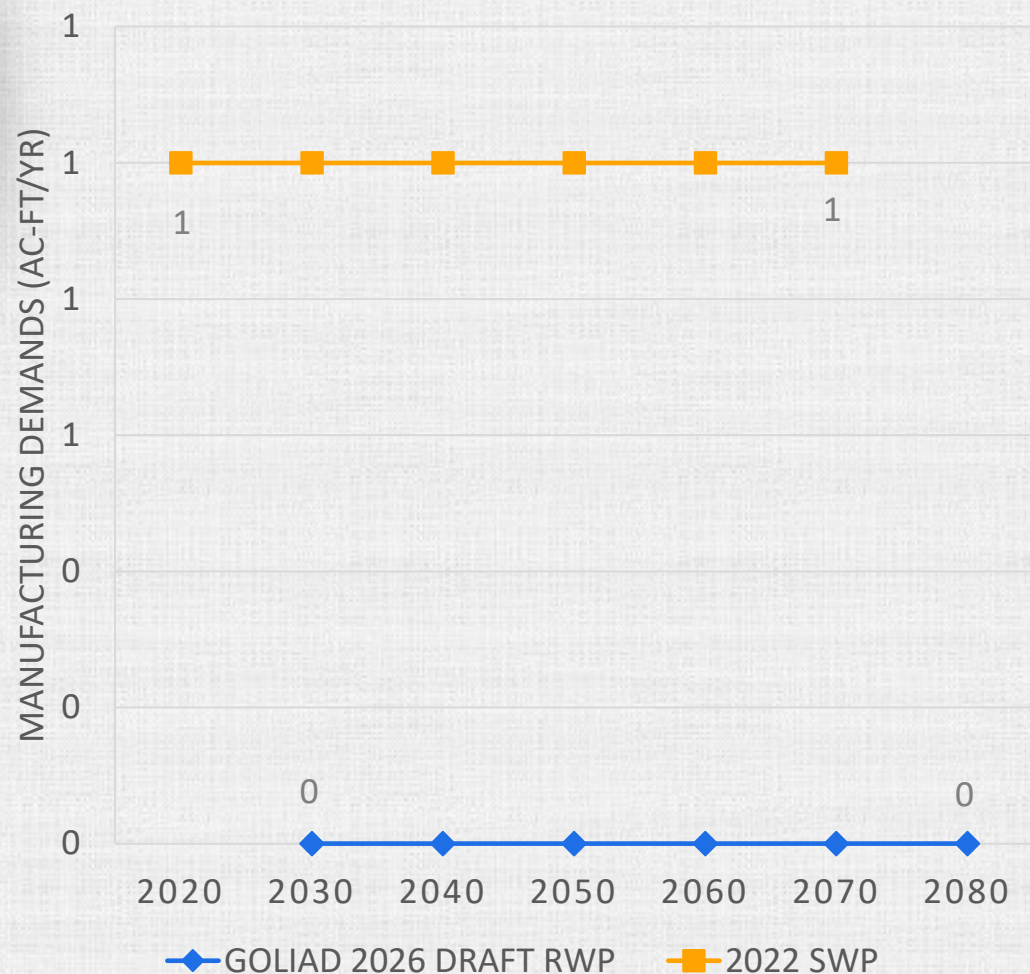
- Adjust 2026 Water Demand Projections for Comal County, as follows:

## Adjusted Demand Projections – Comal County Manufacturing (ac-ft/yr)

2030	2040	2050	2060	2070	2080
901	934	969	1,005	1,042	1,080




# Draft Water Demand Projections: Goliad County Manufacturing




- **2019 Reported User:**  
GOLIAD BREWING COMPANY

- **Water Source:** N/A

- **Unaccounted Use:** 0 ac-ft/yr

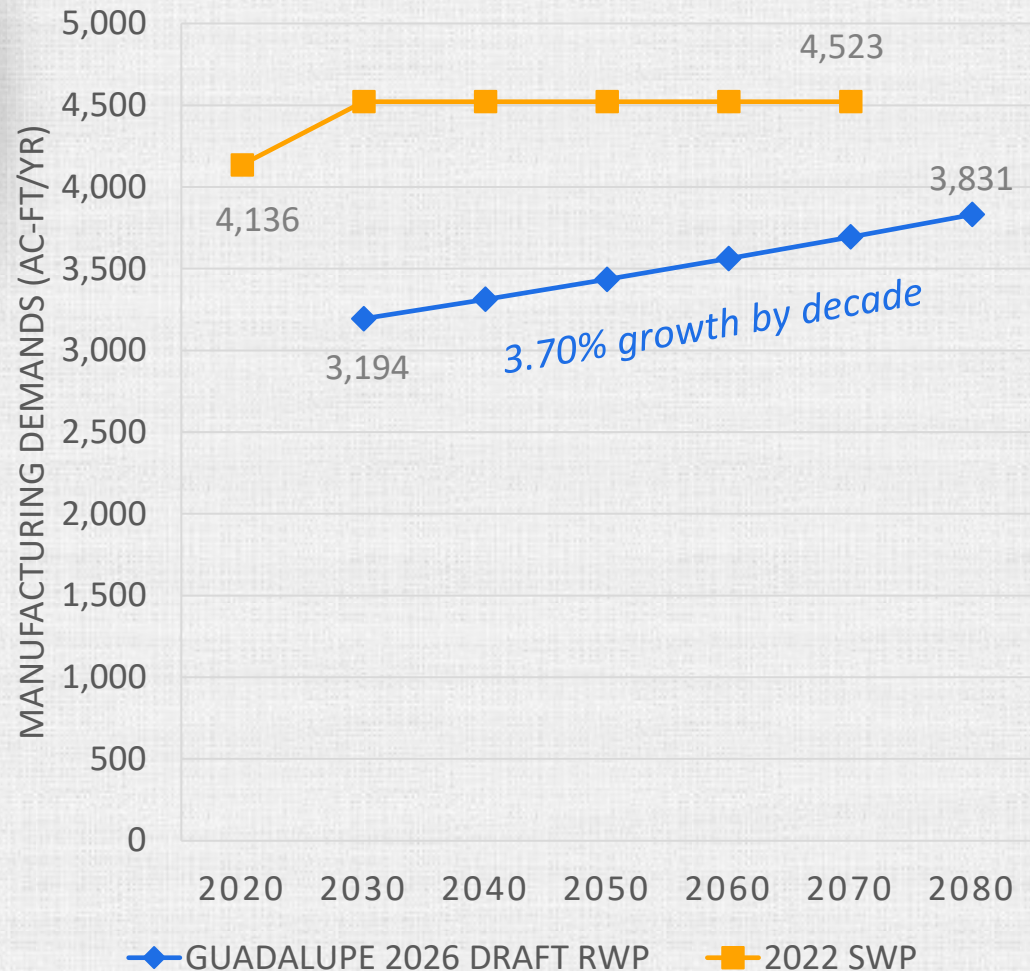
 *Goliad Brewing Company reported 0 ac-ft/yr of use.*

 *Determine whether PLANT 81 GOLIAD- ALAMO READY MIX CONCRETE is open (no reports after 2010)*

 *No updated information received to-date. No proposed revision.*

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
0	0	0	0	0

# Draft Water Demand Projections: Guadalupe County **Manufacturing**



- **2019 Reported Users:**  
 ALAMO GROUP TEXAS INC  
 CATERPILLAR INC  
 CENTRAL TEXAS IRON WORKS - SCHERTZ  
 FUJIREBIO DIAGNOSTICS INC  
 HEXCEL CORPORATION  
 MCQUEENEY PLANT- ACME BRICK COMPANY  
 MCQUEENEY PLANT- GEORGIA- PACIFIC  
 GYPSUM LLC  
 NIAGARA BOTTLING-SEGUIN  
 O.J.R REGIONAL RECLAMATION PLANT  
 SEGUIN PLANT- TYSON FOODS INC  
 STRUCTURAL METALS INC  
 VITESCO TECHNOLOGIES  
 XERXES CORPORATION
- **Water Source:** Groundwater, Surface water, Reuse
- **Unaccounted Use:** 15 ac-ft/yr

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
2,029	2,556	2,865	2,763	2,899

# Draft Water Demand Projections: Guadalupe County Manufacturing

## O.J.R REGIONAL RECLAMATION PLANT (wastewater treatment facility)

- Response from TWDB:  
“After further review of this facility, it seems like the O.J.R Regional Reclamation Plant is a sewage treatment facility and does not use water for manufacturing purposes. If the RWPG would prefer to remove this water use from the manufacturing projections, that would be an acceptable revision.”

## Proposal:

- Remove O.J.R Regional Reclamation Plant from the Manufacturing Historical Water Use Estimate (2016-2019).

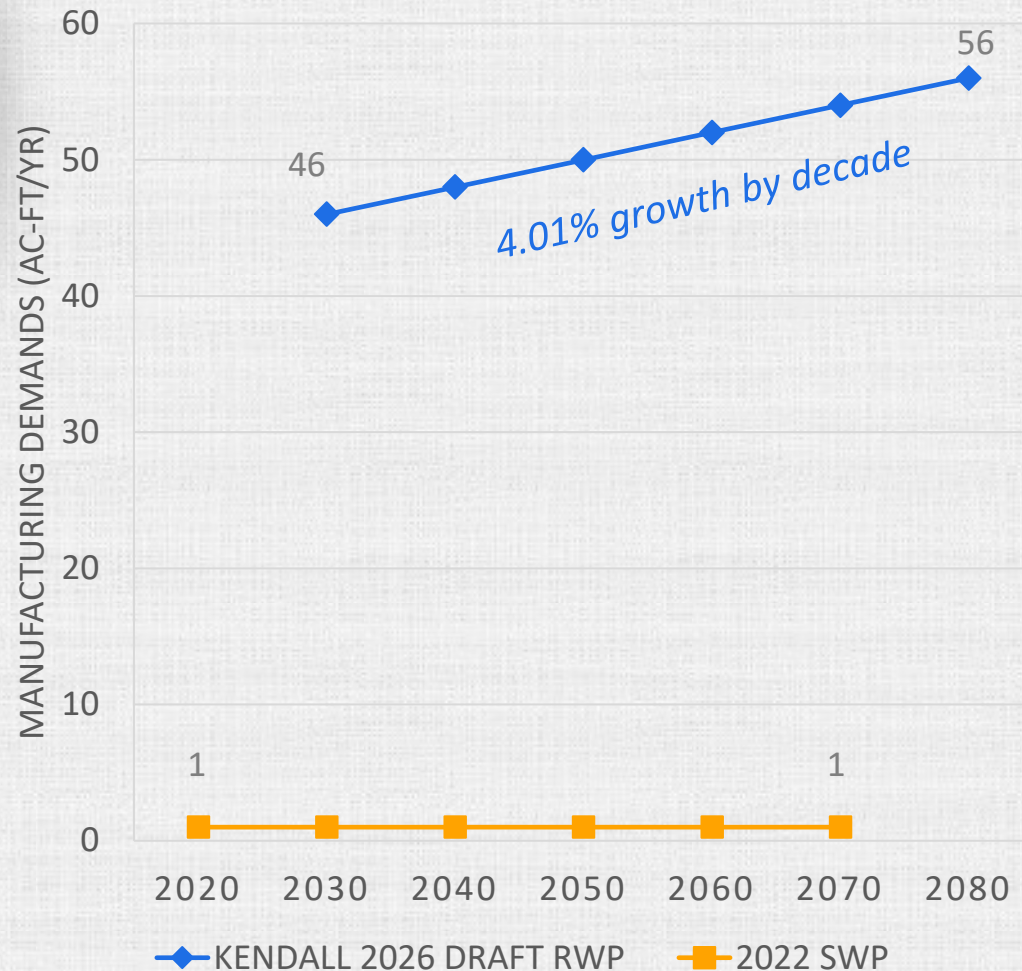
Adjusted Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
2,029	2,114	2,164	2,196	2,037



- Adjust 2026 Water Demand Projections for Guadalupe County, as follows:

Adjusted Demand Projections – Guadalupe County Manufacturing (ac-ft/yr)					
2030	2040	2050	2060	2070	2080
2,423	2,513	2,606	2,702	2,802	2,906



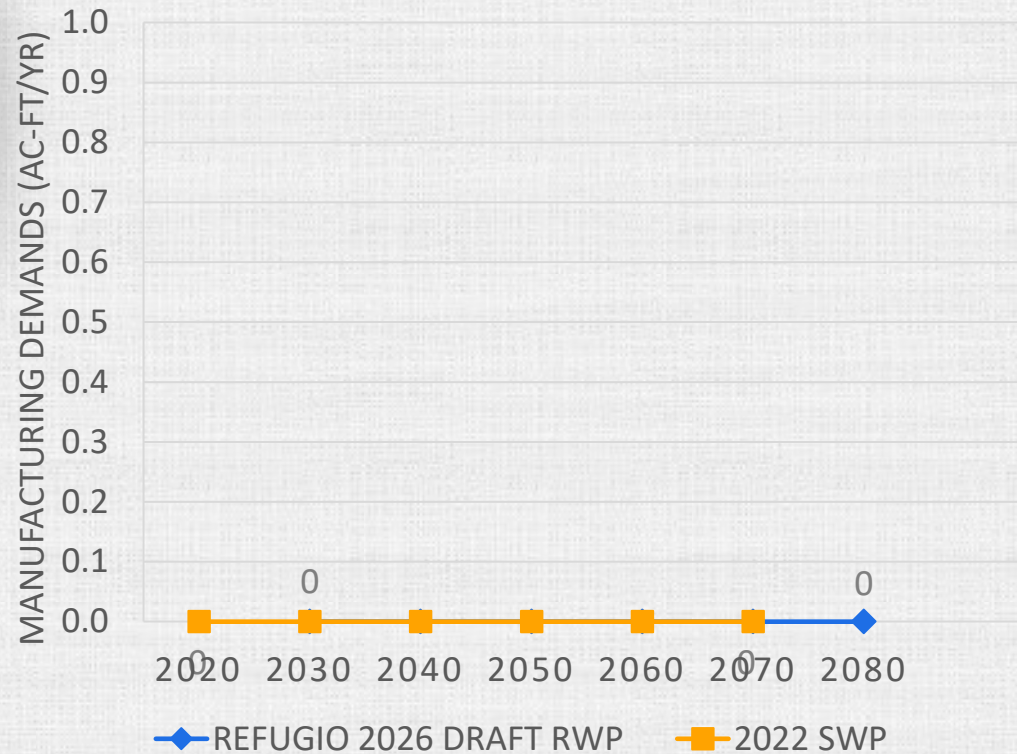
# Draft Water Demand Projections: Kendall County Manufacturing



- **2019 Reported Users:**  
BOERNE FLAGS  
SISTER CREEK VINEYARDS
- **Water Source:** Groundwater
- **Unaccounted Use:** 39 ac-ft/yr
-  *No unaccounted use in 2021 RWP cycle.*
-  *No updated information received to-date. No proposed revision.*

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
2	3	3	3	3

# Draft Water Demand Projections: Refugio County **Manufacturing**



Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
0	0	0	0	0

- 2019 Reported Users: None
- Water Source: N/A
- Unaccounted Use: 0 ac-ft/yr



*Is there really zero demand for Refugio County?*



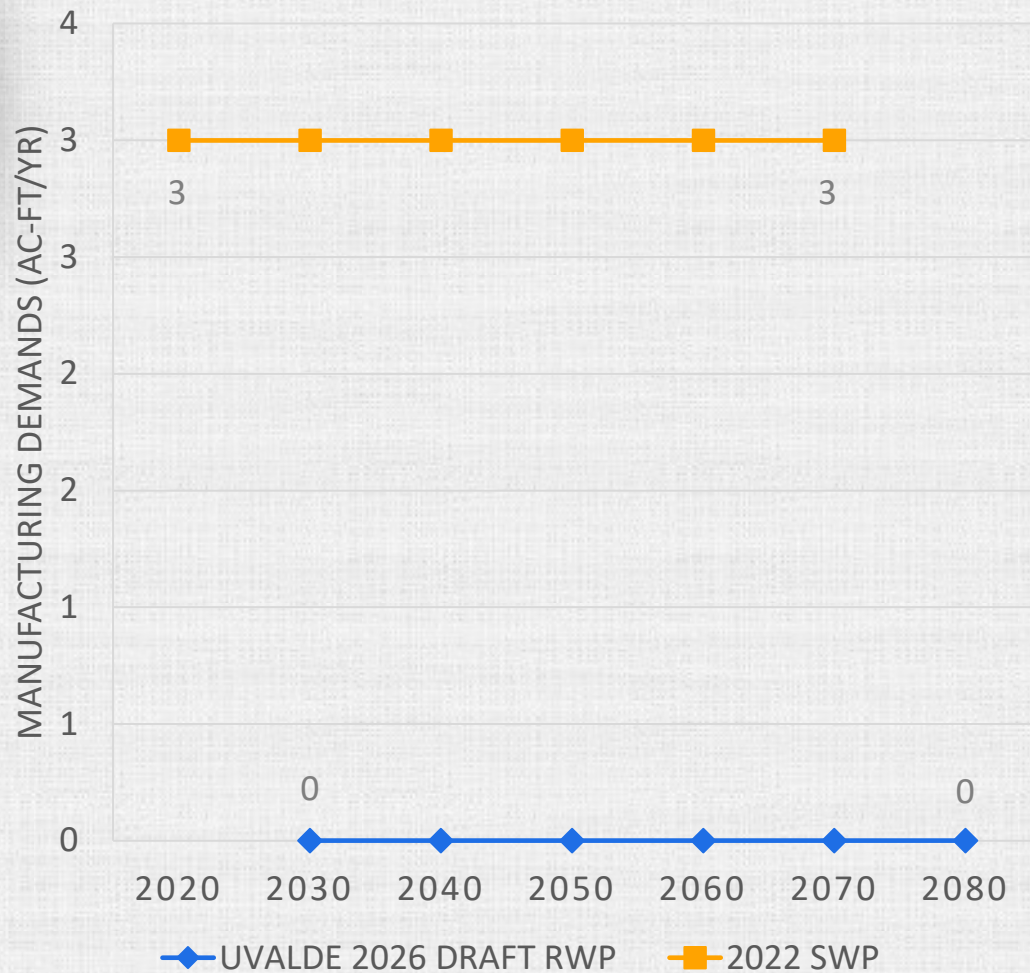
*Tim Andruss: A quick review of historic permitting information suggests that demands likely exist today. There is some permitted use for industrial/manufacturing. However, the state of these permits and the underlying use of groundwater is uncertain.*




***No proposed revision.***




# Draft Water Demand Projections: Uvalde County Manufacturing



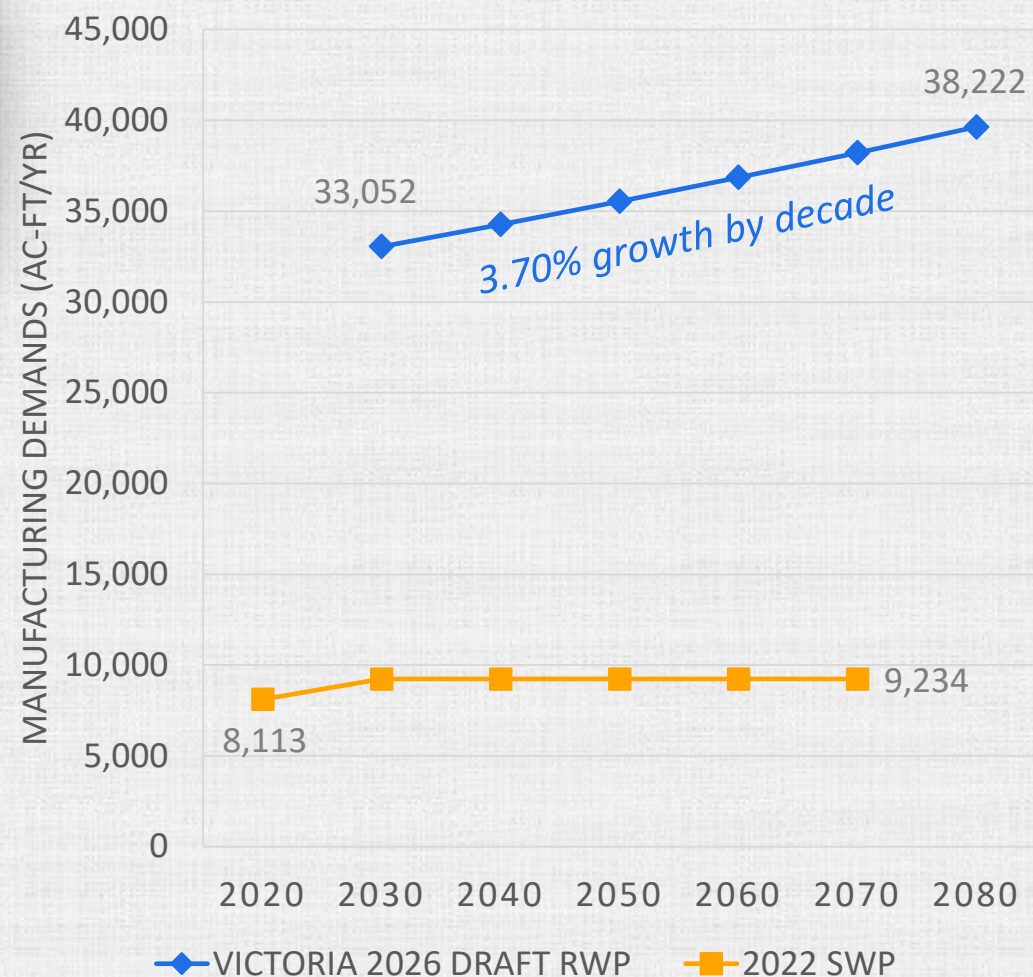
- 2019 Reported Users: None
- Water Source: N/A
- Unaccounted Use: 0 ac-ft/yr

 *Is COVERED GATE INC still operating (no water use reported after 2013)?*

 *No updated information received to-date. No proposed revision.*

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
0	0	0	0	0

# Draft Water Demand Projections: Victoria County **Manufacturing**



- **2019 Reported Users:**  
CATERPILLAR INC-VICTORIA  
EQUISTAR CHEMICALS-VICTORIA PLANT  
HARWELL CUSTOM PROCESSING  
TEXAS CONCRETE PARTNERS  
INVISTA SARL-VICTORIA PLANT  
VICTORIA PLANT-AIR LIQUIDE AMERICA CORPORATION
- **Water Source:** Groundwater, Surface water
- **Unaccounted Use:** 62 ac-ft/yr
- *New user identified in 2019: Equistar Chemicals – Victoria Plant (8,600 ac-ft/yr).*

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
26,345	30,095	27,476	27,905	27,414



# Draft Water Demand Projections: Victoria County **Manufacturing**



## INVISTA SARL – VICTORIA PLANT

- 2021 Plan supporting data – water use for 2010-2015 was ~7,000 - 8,000 AFY
- 2026 Plan supporting data – water use for 2010-2015 was ~23,000 - 26,000 AFY
- Response from TWDB:  
“In last cycle, the net use for this plant may have been calculated using the amount of water consumed by the plant (reported ~30% annually) rather than the total intake of water. For this cycle, net use is calculated using the total intake minus sales.”
- RWPG consultant asked to reach out to INVISTA Victoria Plant at November subcommittee meeting to confirm reported historical demands (*next slide*)

# Draft Water Demand Projections: Victoria County Manufacturing

## INVISTA SARL – VICTORIA PLANT

- INVISTA reviewed total net use data and finds that it closely represents the total source water reported by INVISTA for the subject years, except for 2019.

INVISTA Historical Water Use Estimates (ac-ft/yr)					
	2015	2016	2017	2018	2019
TWDB Reported Use	26,048	29,780	27,217	27,642	18,537
INVISTA Reported Use	26,049	29,780	27,217	27,643	27,039

## Proposal:

- Revise Manufacturing Historical Water Use Estimate (2019) for Victoria County by replacing TWDB Reported Use data with INVISTA Reported Use data:

Adjusted Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
26,345	30,095	27,476	27,905	35,916

- 2026 Water Demand Projections for Victoria County, as follows:

Adjusted Demand Projections – Victoria County Manufacturing (ac-ft/yr)					
2030	2040	2050	2060	2070	2080
39,432	40,891	42,404	43,973	45,600	47,287

# PROPOSED RECOMMENDATION FOR FEEDBACK TO TWDB

## *1.a: MANUFACTURING*

**Bexar County – Feedback suggested no change needed – no change proposed.**

**Comal County – Adjustment: remove Cemex Balcones Quarry from historical water use estimate.**

**Goliad County – Received no additional information to-date – no change proposed.**

**Guadalupe County – Adjustment: Remove OJR from future projections.**

**Kendall County – Received no additional information to-date – no change proposed.**

**Refugio County – Not sufficient data to make a change at this time – no change proposed.**

**Uvalde County – Received no additional information to-date – no change proposed.**

**Victoria County – Adjustment: revise INVISTA's historical water use estimate.**

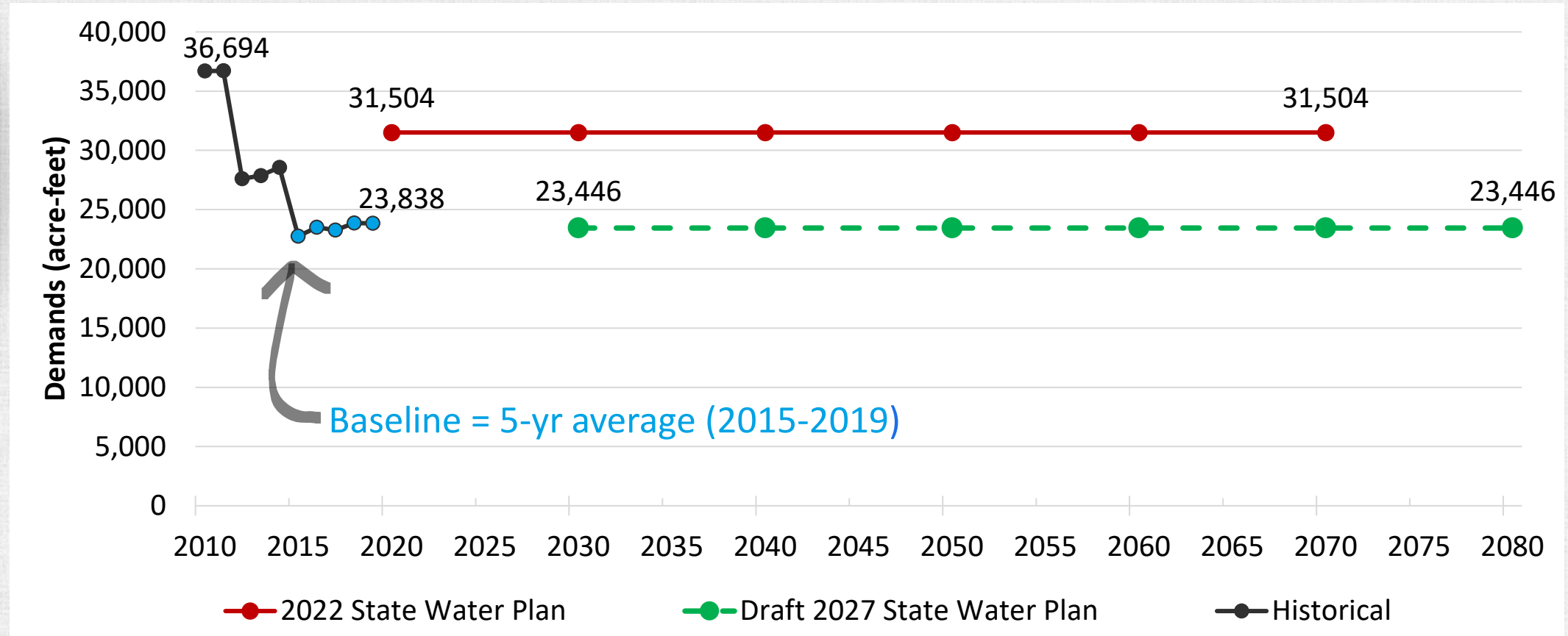


# **Agenda Item 1.b:** **Review Released Draft Data from TWDB:** **Livestock Projections and Supporting Data**

## Recap: Livestock Demands

- 🔍 BV reviewed SMARC facility and whether it needs to be included in the Livestock demands.
  - Does not appear to be a fish hatchery/livestock facility
  - Potential to include as part of County-Other demand (domestic exempt) – conversation with EAA
- 🔍 TWDB prepared a revised baseline using a 10-year average of historical water use instead of a 5-year average (back-calculated for a consistent methodology)

# Draft Water Demand Projections: Livestock

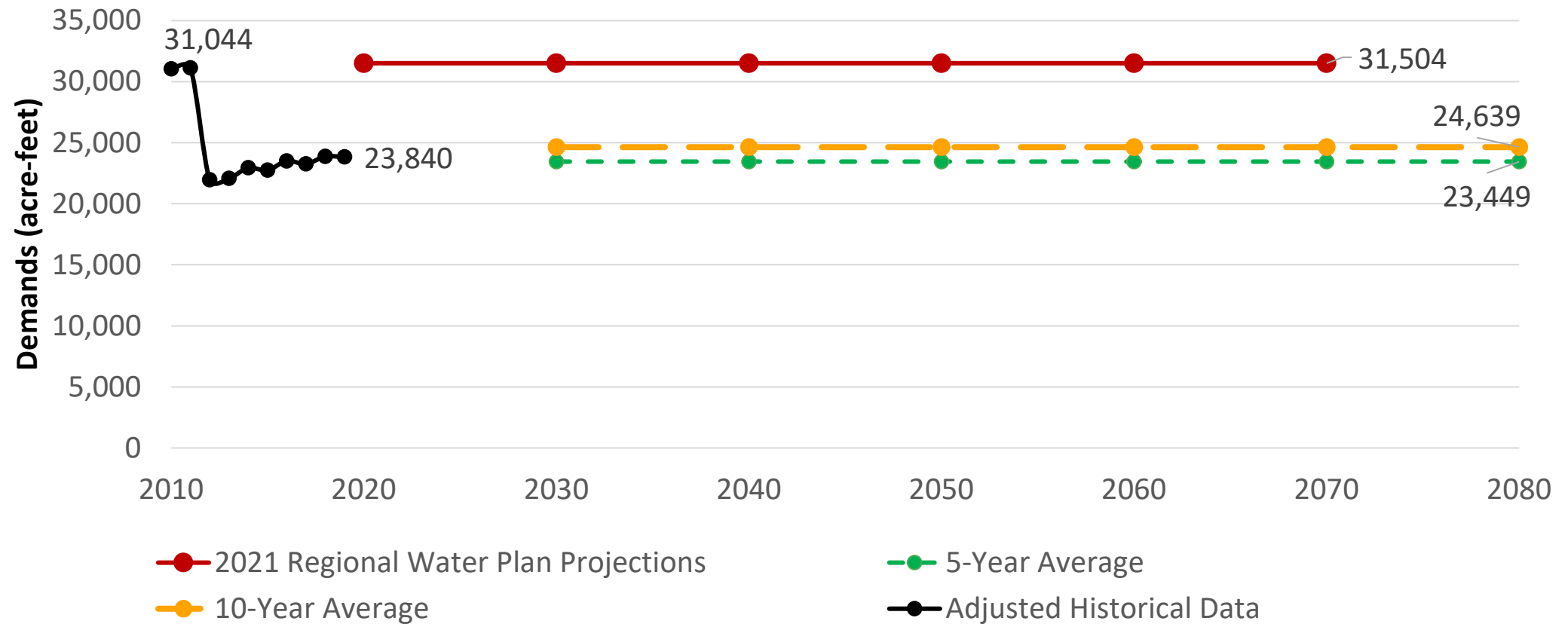


Source: Katie Dahlberg, TWDB

Same methodology as 2021 RWPs

- County Water Use Estimates = USDA Inventory \* Livestock Water Use Coefficients
- Water Use Survey facilities

# Draft Water Demand Projections: Livestock



Source: Katie Dahlberg, TWDB

Between cycles, TWDB changed the chicken inventory estimate methodology from using USDA production numbers (number of chickens produced in a year) to USDA inventory numbers (number of chickens at any given time) to better represent annual water use. TWDB provided adjusted 10-year historical data to provide a more accurate 10-year average of historical water use.

# PROPOSED RECOMMENDATION FOR FEEDBACK TO TWDB

## 1.b: LIVESTOCK



Revise methodology to use a 10-year historical average instead of the 5-year average.

2026 DRAFT Regional Water Plan Projections						
County	2030	2040	2050	2060	2070	2080
ATASCOSA	1,537	1,537	1,537	1,537	1,537	1,537
BEXAR	988	988	988	988	988	988
CALDWELL	831	831	831	831	831	831
CALHOUN	282	282	282	282	282	282
COMAL	271	271	271	271	271	271
DEWITT	1,736	1,736	1,736	1,736	1,736	1,736
DIMMIT	367	367	367	367	367	367
FRIO	964	964	964	964	964	964
GOLIAD	789	789	789	789	789	789
GONZALES	4,138	4,138	4,138	4,138	4,138	4,138



# PROPOSED RECOMMENDATION FOR FEEDBACK TO TWDB

## 1.b: LIVESTOCK (CONT'D)



Revise methodology to use a 10-year historical average instead of the 5-year average.

2026 DRAFT Regional Water Plan Projections						
County	2030	2040	2050	2060	2070	2080
GUADALUPE	1,179	1,179	1,179	1,179	1,179	1,179
HAYS (PARTIAL)	2,712	2,712	2,712	2,712	2,712	2,712
KARNES	954	954	954	954	954	954
KENDALL	388	388	388	388	388	388
LA SALLE	394	394	394	394	394	394
MEDINA	1,058	1,058	1,058	1,058	1,058	1,058
REFUGIO	461	461	461	461	461	461
UVALDE	2,049	2,049	2,049	2,049	2,049	2,049
VICTORIA	979	979	979	979	979	979
WILSON	1,709	1,709	1,709	1,709	1,709	1,709
ZAVALA	855	855	855	855	855	855
TOTAL (ALL)	24,639	24,639	24,639	24,639	24,639	24,639

# **Agenda Item 1.c:** **Review Released Draft Data from TWDB:** **Steam-Electric Projections and Supporting** **Data**



## Recap: **Steam-Electric** Demands

- Texas Water Development Board (TWDB) released draft 2026 water demand projections and supporting data (Draft 2026 Demands) in January 2022
- Region L Regional Water Planning Group (RWPG) received presentation on Draft 2026 Demands in May 2022
- Population and Water Demands (PWD) Workgroup reviewed Draft 2026 Demands data at meetings in April and November 2022. The PWD Workgroup:



Requested additional information for certain counties = 4

# Draft Water Demands: **Steam-Electric** Summary



2026 DRAFT Regional Water Plan Projections (acft/yr)								
No.	County	Status	2030	2040	2050	2060	2070	2080
1	ATASCOSA		7,962	7,962	7,962	7,962	7,962	7,962
2	BEXAR		76,539	76,539	76,539	76,539	76,539	76,539
3	CALDWELL		0	0	0	0	0	0
4	CALHOUN		37	37	37	37	37	37
5	COMAL		0	0	0	0	0	0
6	DIMMIT		0	0	0	0	0	0
7	DEWITT		0	0	0	0	0	0
8	FRIO		54	54	54	54	54	54
9	GOLIAD		4,994	4,994	4,994	4,994	4,994	4,994
10	GONZALES		0	0	0	0	0	0

## Legend



Discussion and Possible Action Today

# Draft Water Demands: **Steam-Electric** Summary (cont'd)

2026 DRAFT Regional Water Plan Projections (acft/yr)								
No.	County	Status	2030	2040	2050	2060	2070	2080
11	GUADALUPE		7,008	7,008	7,008	7,008	7,008	7,008
12	HAYS (PARTIAL)		1,949	1,949	1,949	1,949	1,949	1,949
13	KARNES		0	0	0	0	0	0
14	KENDALL		0	0	0	0	0	0
15	LA SALLE		0	0	0	0	0	0
16	MEDINA		0	0	0	0	0	0
17	REFUGIO		0	0	0	0	0	0
18	UVALDE		0	0	0	0	0	0
19	VICTORIA		3,198	3,198	3,198	3,198	3,198	3,198
20	WILSON		0	0	0	0	0	0
21	ZAVALA		0	0	0	0	0	0
TOTAL			101,741	101,741	101,741	101,741	101,741	101,741

## Legend



Discussion and Possible Action Today



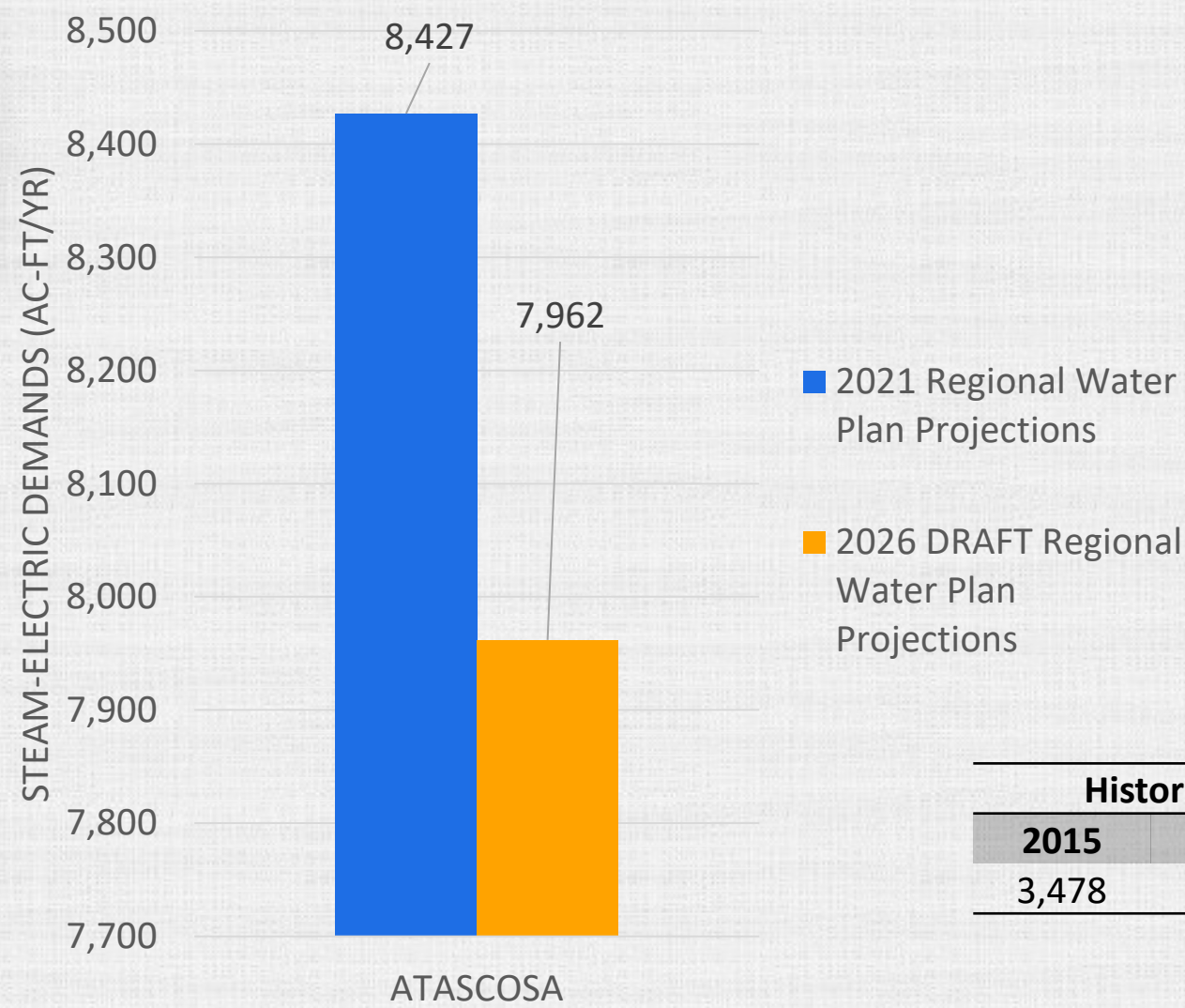
# Draft Water Demand Projections: **Steam-electric**

## Water use from wind farms

🔍 At 12/8 meeting, PWD Workgroup requested research into whether water demands associated with wind farms exist within Region L, and if so, how much.

- Tim Andruss found a permit application for a wind farm in Jackson County (Region P) for future demands. The applicants are seeking authorization to produce 32.85 acre-feet of groundwater on a 170-acre tract of land.
- No additional information found within the region.

# Draft Water Demand Projections: Atascosa County **Steam-Electric**



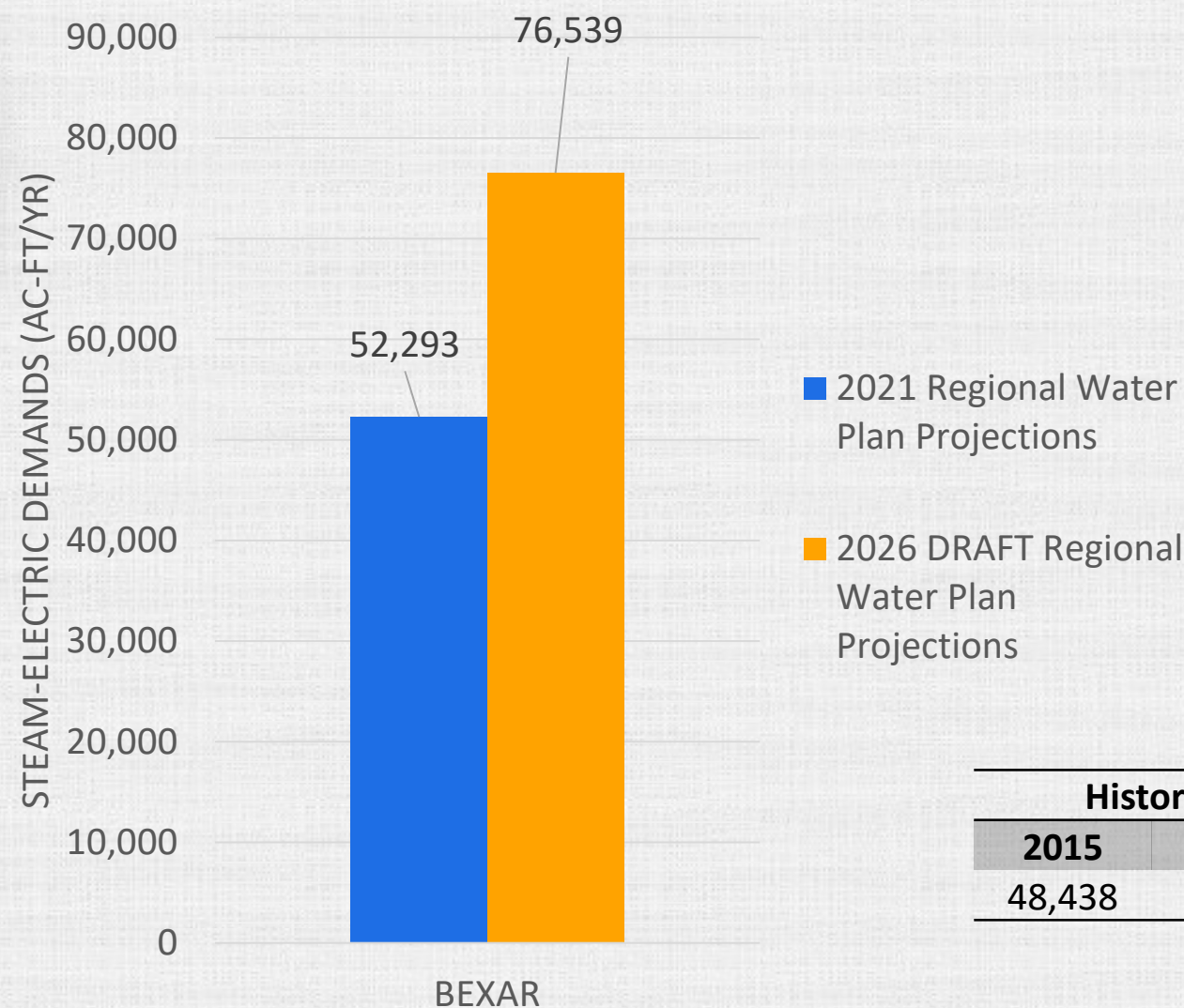
- **User:** San Miguel Electric Cooperative Incorporated
- **Water Source:** Groundwater

*San Miguel is under contract to produce power until 2037, but they requested to hold demands steady through 2080.*

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
3,478	5,036	7,962	5,607	4,787



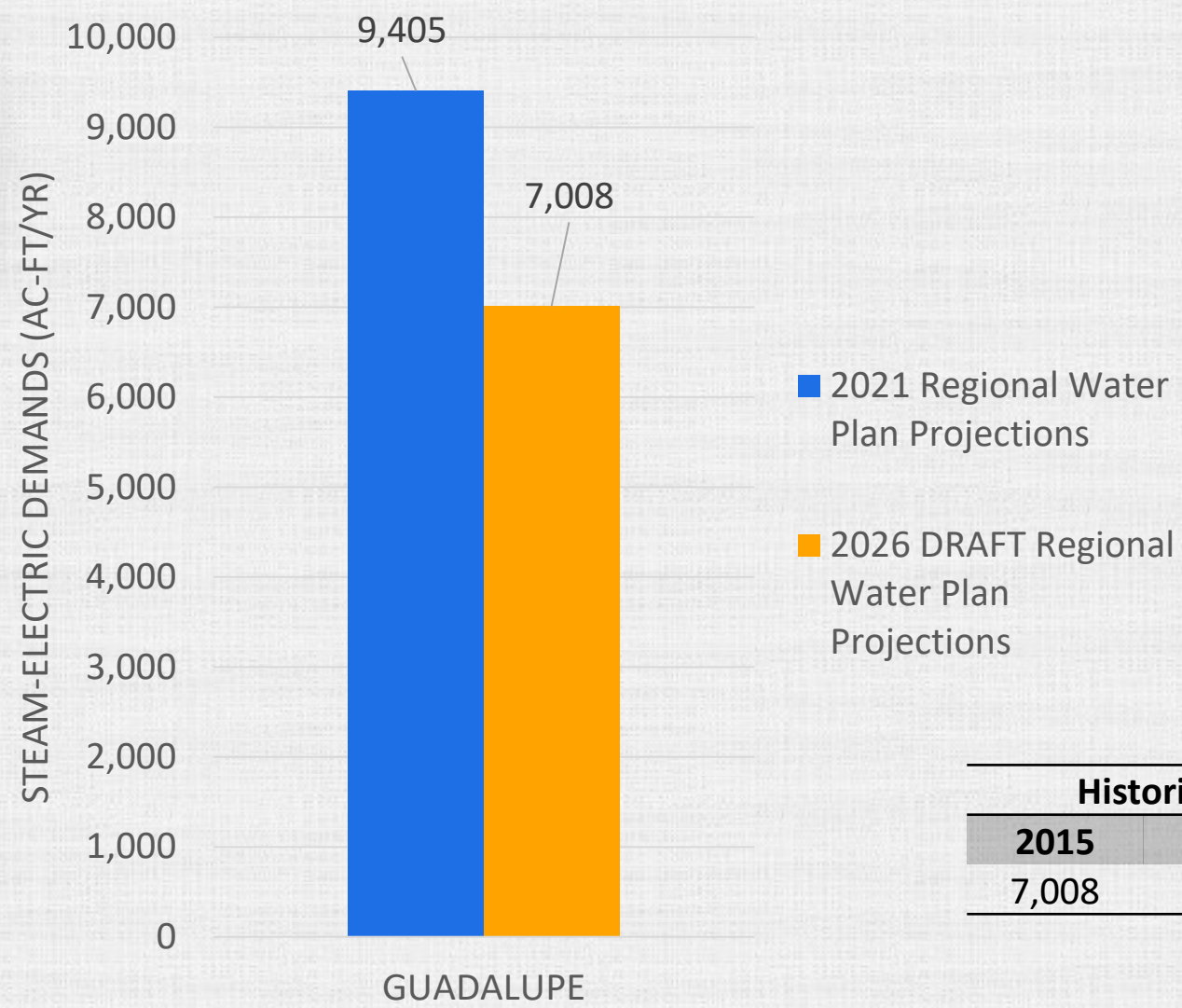
# Draft Water Demand Projections: Bexar County **Steam-Electric**



- **Users:** CPS Energy (O.W. Sommers Power Plant; J.T. Deely Power Plant; J.K. Spruce Power Plant; V H Braunig Power Plant; Arthur Von Rosenberg Power Plant; Leon Creek Power Plant)
- **Water Source:** Groundwater, Surface water, Reuse
- Historical water use shows equal amounts of surface water and reuse water used in 2017-2019; TWDB confirmed survey response

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
48,438	39,725	69,059	76,539	70,419

# Draft Water Demand Projections: Guadalupe County **Steam-Electric**

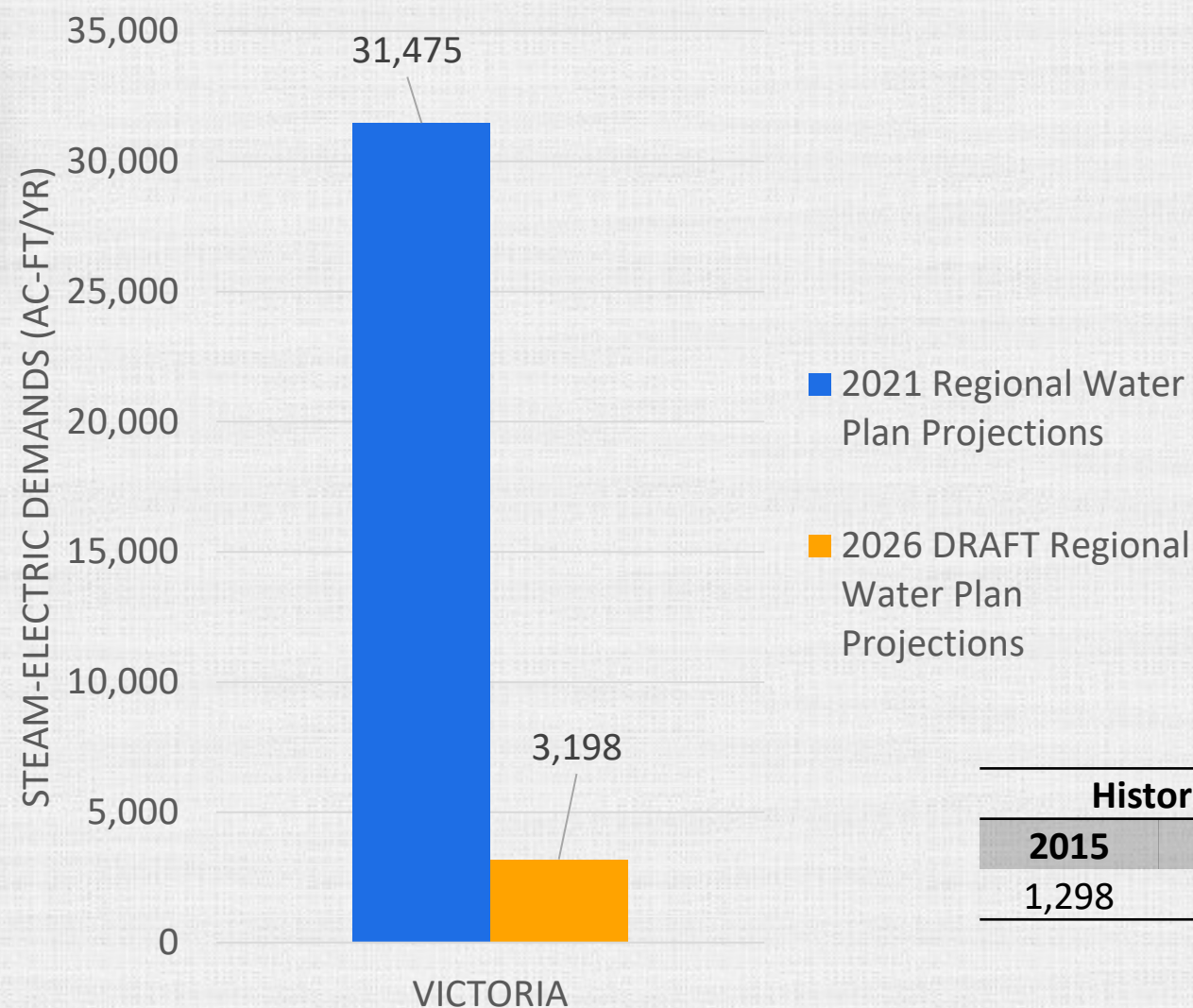


- **Users:** Rio Nogales Power Plant; Calpine Corp-Guadalupe Power Partners
- **Water Source:** Groundwater, Surface water, Reuse
- **No feedback provided to date from Calpine**

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
7,008	6,423	5,564	6,294	6,866



# Draft Water Demand Projections: Victoria County **Steam-Electric**



- **Users:** Victoria Port Power LLC; Victoria WLE LP-Victoria Steam Power Station; South Texas Electric Cooperative: Sam Rayburn Plant
- **Water Source:** Groundwater, Surface water
- Water use for Victoria WLE LP-Victoria Steam Power Station significantly decreased after 2012
- Two proposed users (Victoria City Power LLC; Victoria Port Power II LLC)

Historical Water Use Estimates (ac-ft/yr)				
2015	2016	2017	2018	2019
1,298	818	879	1,307	1,866

# Draft Water Demand Projections:

## Victoria County **Steam-Electric**

- Victoria WLE LP-Victoria Steam Power Station
  - It is believed that surface water rights held by Victoria WLE were subordinated to the City of Victoria such that surface water would not be diverted for use at the power plant.
  - GCDs provided information that the average reported groundwater production for power generation in Victoria County was 1,195 ac-ft over the past 5 years.
  - No change to draft water demand projections recommended.

# PROPOSED RECOMMENDATION FOR FEEDBACK TO TWDB

## *1.C: STEAM-ELECTRIC*

- Atascosa County – Feedback suggested no change needed – no change proposed.  
Bexar County – Received no additional information to-date – no change proposed.  
Guadalupe County – Received no additional information to-date – no change proposed.  
Victoria County – Feedback suggested no change needed – no change proposed.
- *No changes proposed for any counties with Region L*

# **Agenda Item 1.d: Review Released Draft Data from TWDB: Irrigation Projections and Supporting Data**



# Discussion of Results/Decisions from Previous Meeting

- TBD

# Discussion.

- Next Steps
- Next Meeting(s)
- Other topics