

NOTICE OF OPEN MEETING OF THE
SOUTH CENTRAL TEXAS REGIONAL
WATER 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 Tuesday April 26, 2022, at 10:00 AM both in person and virtually. The in person meeting will be held at the San Antonio River Authority, Sheridan Building Boardroom, 201 W. Sheridan Street, San Antonio, TX 78204. You can attend virtually on GotoMeeting at <https://meet.goto.com/394047757>. The following subjects will be considered for discussion and/or action at said meeting.

1. Discussion and Establishment of the Responsibilities of the Population and Water Demands Work Group
2. Presentation and Discussion Regarding TWDB Data Releases

Comments and submissions may be submitted through email to khayes@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: Kendall Hayes, 201 W. Sheridan Street, San Antonio, TX 78204. Please direct any questions to Kendall Hayes at (210) 302-3641.

Agenda Item 1:
Discussion and Establishment of the
Responsibilities of the Population and Water
Demands Work Group

DRAFT 4/22/2022

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1

1

Discussion.

- Membership
- Responsibilities
- Other topics

2

3

4

2

Future Data Releases and Deadlines


Type	Anticipated Release Date	Deadline for RWPG to Review and Submit Revisions to TWDB
Water Demand Projections: Mining, Irrigation	Aug. 2022	Jul. 2023
Population and Municipal Water Demand Projections	Feb. 2023	Aug. 2023

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5

5

Draft Municipal Water User Group (WUG) List



- Draft data released March 2022
- RWPG Responsibilities:
 - Review list of WUGs and submit revisions (merges, additions, etc.) via consultant
 - Due to TWDB by **July 29, 2022**, but we can submit any time before then

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6

6

7

8

Draft Municipal WUG List: TWDB Methodology

- All utility-based WUGs were carried forward from the 2021 RWP
- New WUGs were evaluated and added based on the utility use from 2015-2019 of 100 acre-feet per 31 TAC § 357.10(43)
- Utility-based WUGs from the 2021 RWP were removed from the draft 2026 WUG list, if:
 - Utility merged with another WUG
 - The utility-based WUG no longer had an active, community public water system

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9

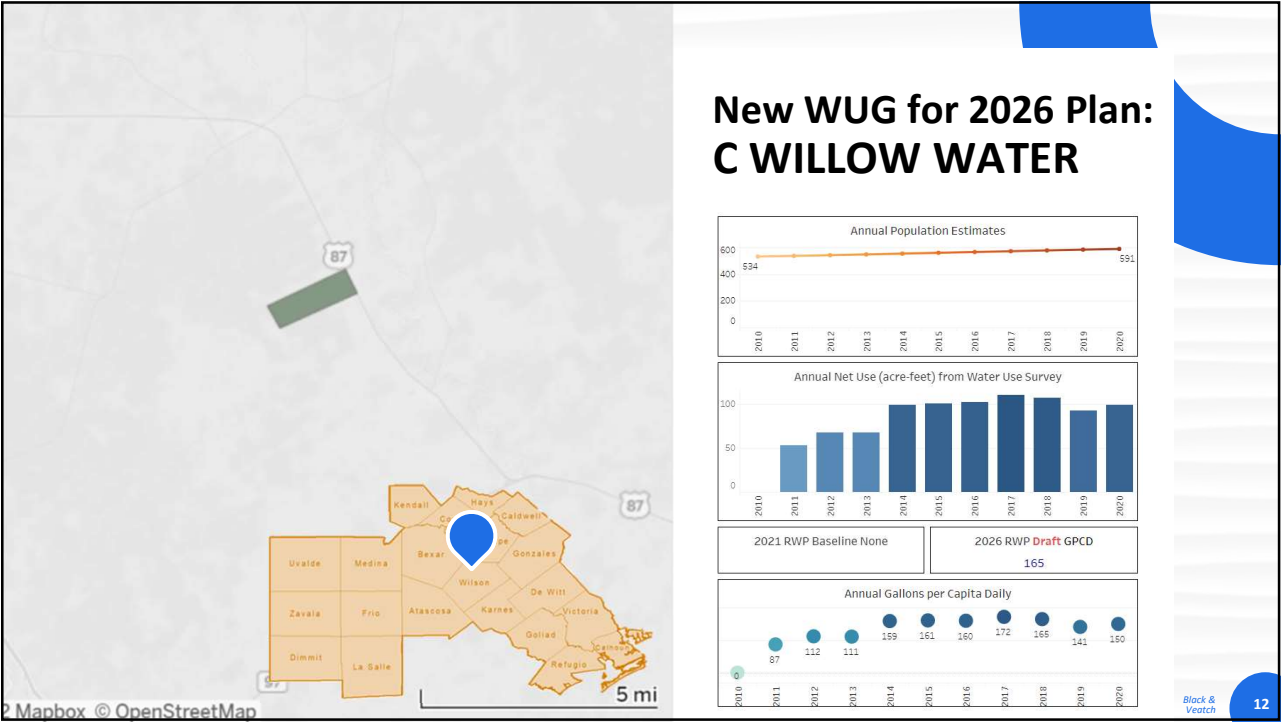
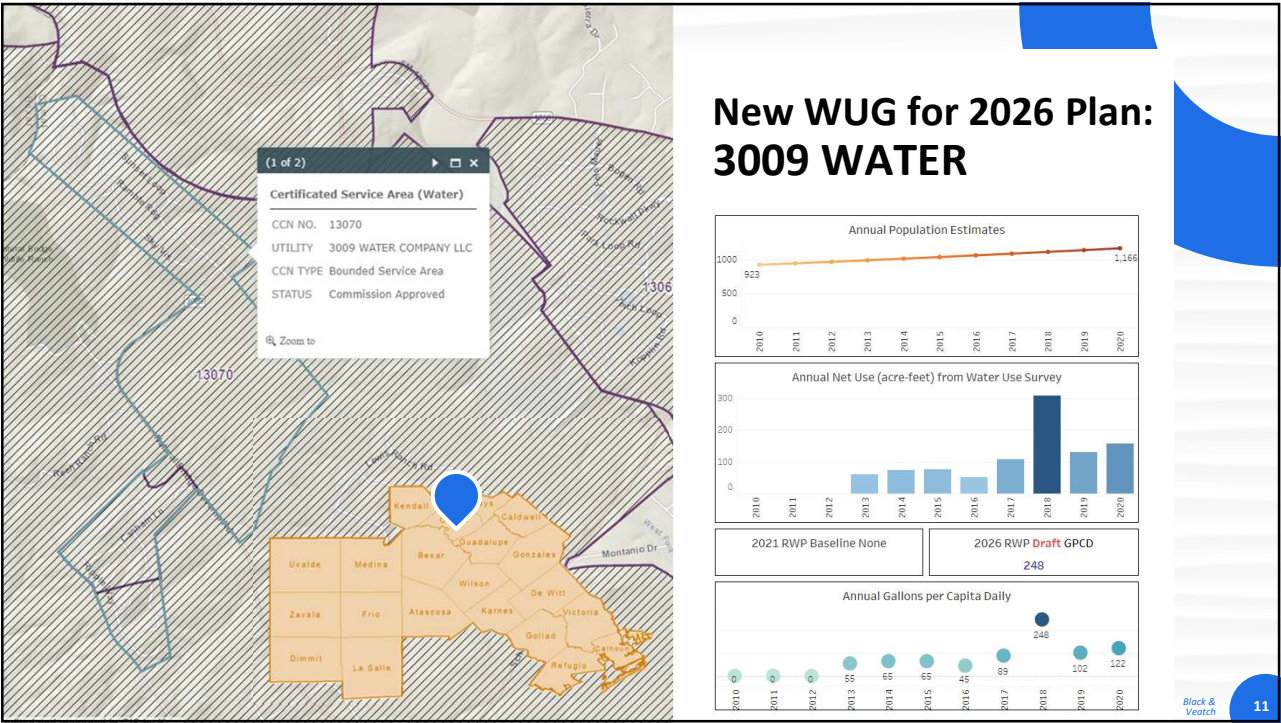
Draft Municipal Water User Group (WUG) List: Summary of TWDB-initiated Changes for 2026 Plan

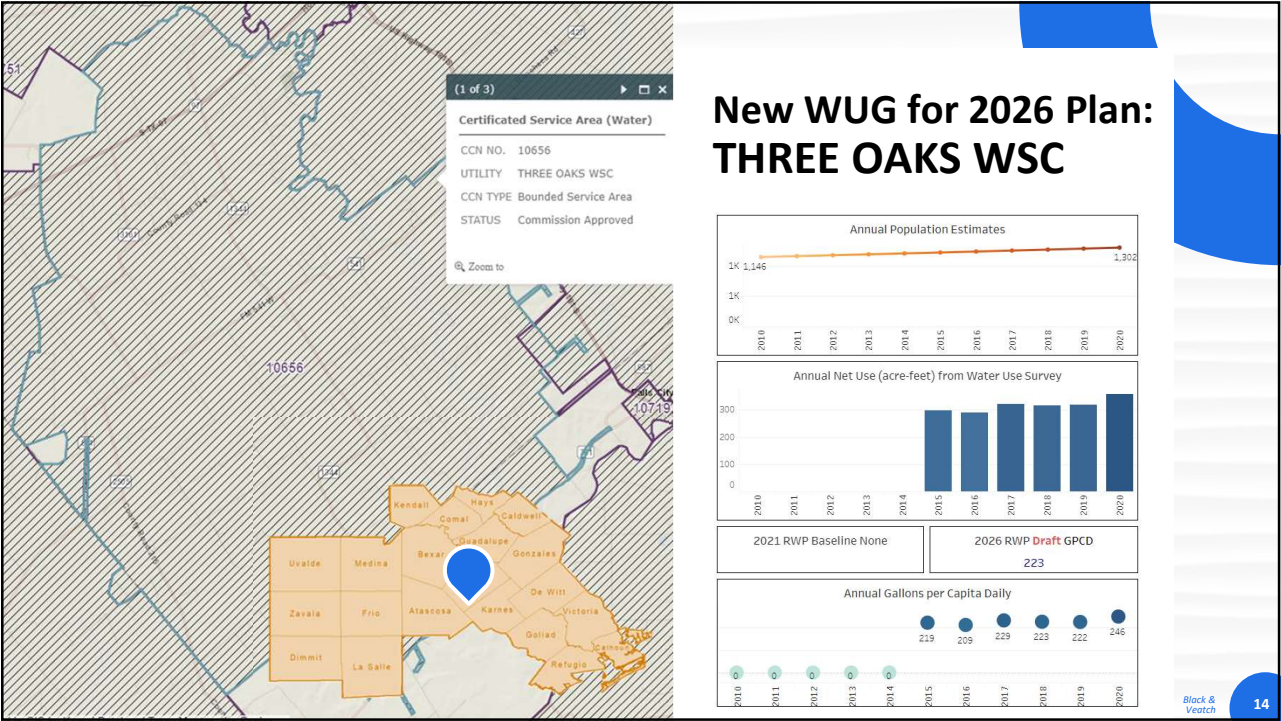
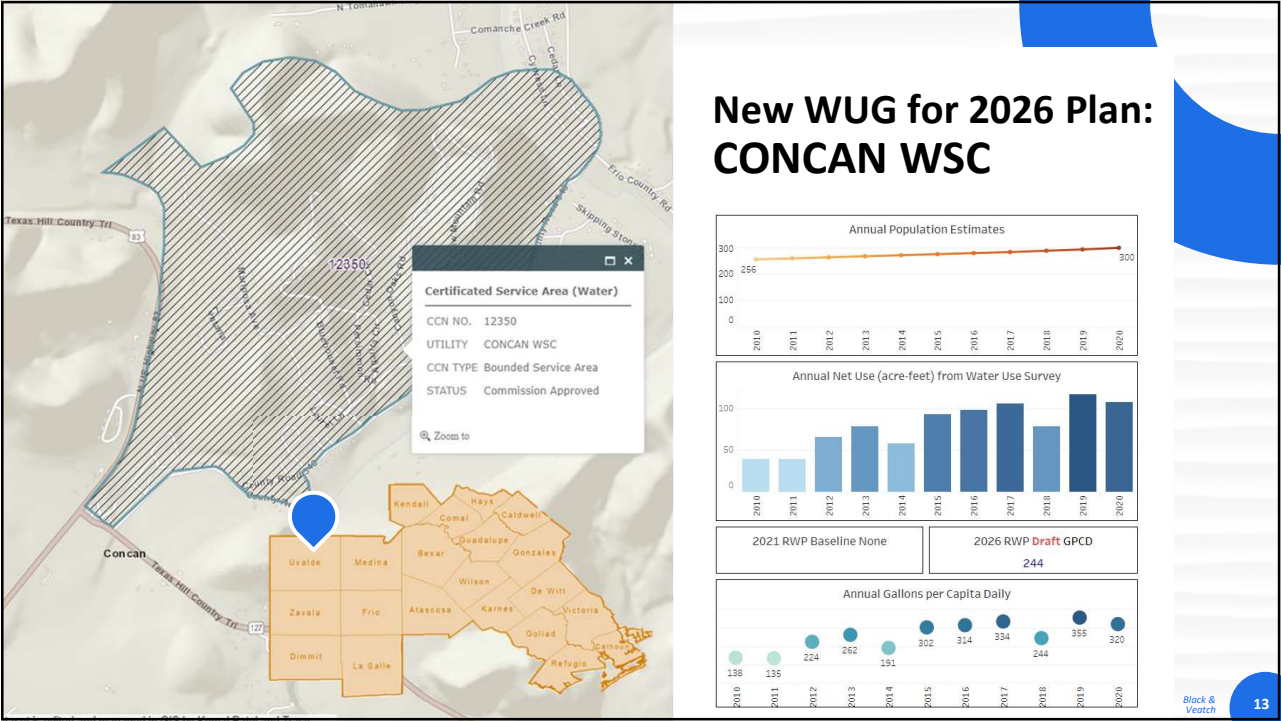
2021 Plan	2026 Plan	County	Revision
PORT OCONNOR MUD	PORT OCONNOR IMPROVEMENT DISTRICT	CALHOUN	Name Change
CRYSTAL CLEAR WSC	CRYSTAL CLEAR SUD	COMAL/GUADALUPE/HAYS	Name Change
N/A	3009 WATER	COMAL	New WUG
N/A	C WILLOW WATER	WILSON	New WUG
N/A	CONCAN WSC	UVALDE	New WUG
N/A	THREE OAKS WSC	WILSON	New WUG
N/A	VILLE DALSACE WATER SUPPLY	MEDINA	New WUG
N/A	RANCHO DEL LAGO	BLANCO	New WUG

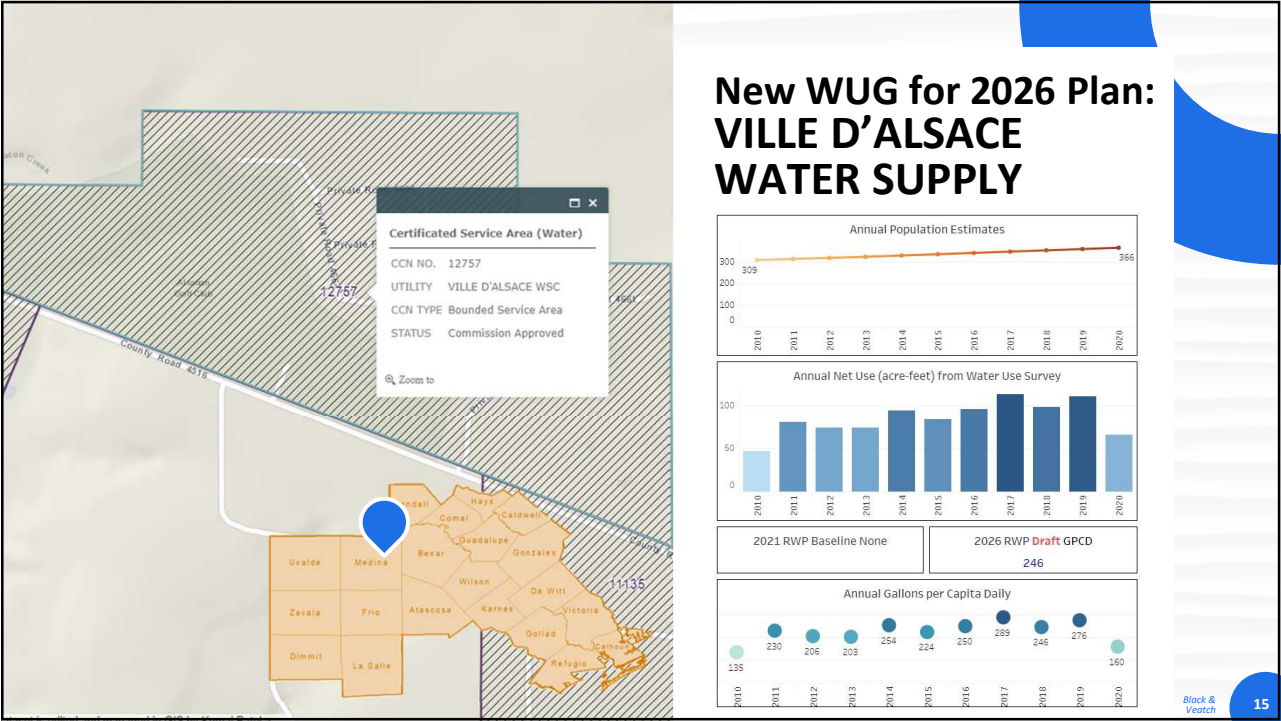
Rancho Del Lago was included in 2026 spreadsheets as a new WUG within Region L, but it was found to be in Blanco County (Region K). TWDB is revising.

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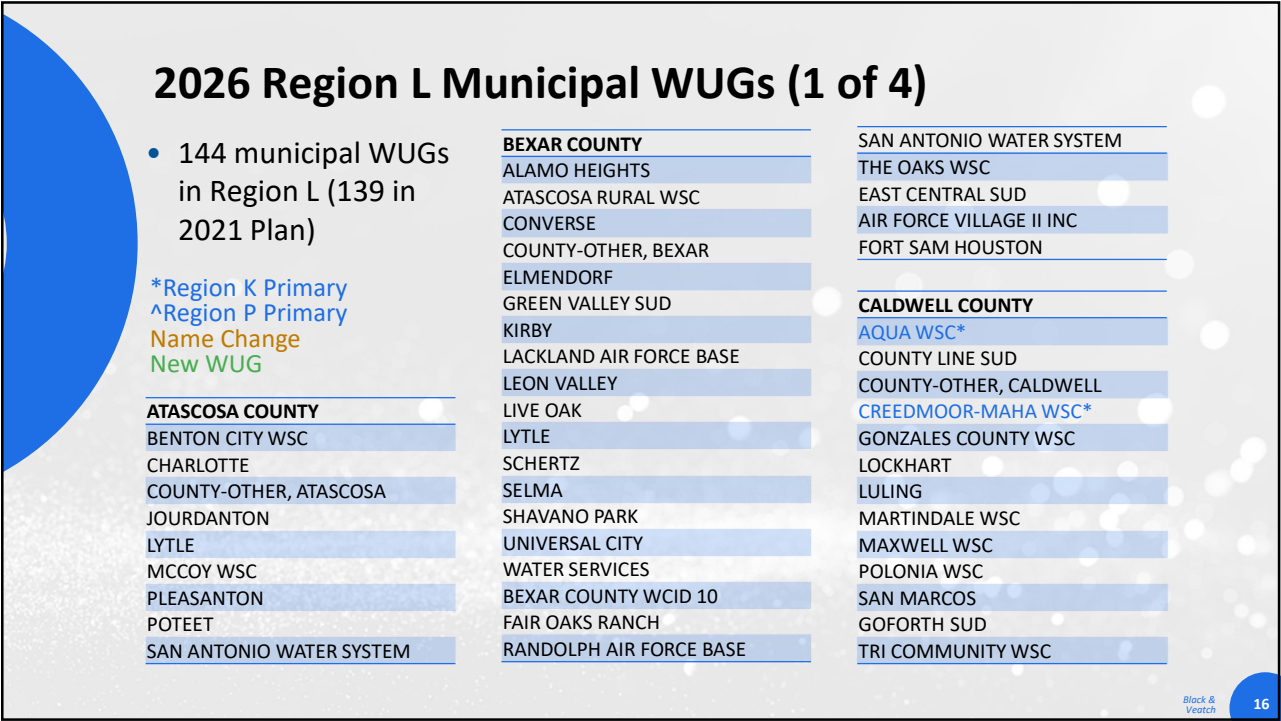
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15



16

2026 Region L Municipal WUGs (2 of 4)		
CALHOUN COUNTY	COMAL COUNTY	DEWITT COUNTY
GUADALUPE-BLANCO RIVER AUTHORITY	GUADALUPE-BLANCO RIVER AUTHORITY	COUNTY-OTHER, DEWITT
COUNTY-OTHER, CALHOUN	COUNTY-OTHER, COMAL	CUERO
POINT COMFORT	CRYSTAL CLEAR SUD	GONZALES COUNTY WSC
PORT LAVACA	GARDEN RIDGE	YOAKUM^
PORT OCONNOR IMPROVEMENT DISTRICT	GREEN VALLEY SUD	YORKTOWN
SEADRIFT	NEW BRAUNFELS	
GUADALUPE-BLANCO RIVER AUTHORITY	SCHERTZ	FRIO COUNTY
COUNTY-OTHER, CALHOUN	SELMA	BENTON CITY WSC
	WATER SERVICES	COUNTY-OTHER, FRIO
DIMMIT COUNTY	FAIR OAKS RANCH	DILLEY
ASHERTON	SAN ANTONIO WATER SYSTEM	PEARSALL
BIG WELLS	CANYON LAKE WATER SERVICE	MOORE WSC
CARRIZO SPRINGS	CLEAR WATER ESTATES WATER SYSTEM	
COUNTY-OTHER, DIMMIT	KT WATER DEVELOPMENT	GOLIAD COUNTY
CARRIZO HILL WSC	3009 WATER	COUNTY-OTHER, GOLIAD
	WINGERT WATER SYSTEMS	GOLIAD

2026 Region L Municipal WUGs (3 of 4)		
GONZALES COUNTY	GUADALUPE COUNTY	KENDALL COUNTY
COUNTY-OTHER, GONZALES	SEGUIN	GUADALUPE-BLANCO RIVER AUTHORITY
GONZALES	SPRINGS HILL WSC	BOERNE
GONZALES COUNTY WSC	CIBOLO	COUNTY-OTHER, KENDALL
NIXON	COUNTY-OTHER, GUADALUPE	FAIR OAKS RANCH
WAEELDER	CRYSTAL CLEAR SUD	KENDALL COUNTY WCID 1
SMILEY	GONZALES COUNTY WSC	KENDALL WEST UTILITY
	GREEN VALLEY SUD	
HAYS COUNTY	LULING	KARNES COUNTY
BUDA*	MARION	COUNTY-OTHER, KARNES
COUNTY LINE SUD	MARTINDALE WSC	EL OSO WSC
COUNTY-OTHER, HAYS*	NEW BRAUNFELS	FALLS CITY
CREEDMOOR-MAHA WSC*	SCHERTZ	KARNES CITY
CRYSTAL CLEAR SUD	SELMA	KENEDY
KYLE	WATER SERVICES	RUNGE
MAXWELL WSC	EAST CENTRAL SUD	SUNKO WSC
SAN MARCOS	TRI COMMUNITY WSC	
WIMBERLEY WSC		
GOFORTH SUD		
SOUTH BUDA WCID 1		
TEXAS STATE UNIVERSITY		

2026 Region L Municipal WUGs (4 of 4)		
LA SALLE COUNTY	UVALDE COUNTY	REFUGIO COUNTY
COTULLA	COUNTY-OTHER, UVALDE	COUNTY-OTHER, REFUGIO
COUNTY-OTHER, LA SALLE	CONCAN WSC	REFUGIO
ENCINAL WSC	SABINAL	WOODSBORO
	UVALDE	
MEDINA COUNTY	KNIPPA WSC	WILSON COUNTY
BENTON CITY WSC	WINDMILL WSC	COUNTY-OTHER, WILSON
CASTROVILLE		C WILLOW WATER
COUNTY-OTHER, MEDINA	VICTORIA COUNTY	EL OSO WSC
DEVINE	COUNTY-OTHER, VICTORIA	ELMENDORF
HONDO	VICTORIA	FLORESVILLE
LA COSTE	QUAIL CREEK MUD	LA VERNIA
LYTLE	VICTORIA COUNTY WCID 1	MCCOY WSC
NATALIA		NIXON
YANCEY WSC	ZAVALA COUNTY	OAK HILLS WSC
VILLE DALSACE WATER SUPPLY	COUNTY-OTHER, ZAVALA	POTH
SAN ANTONIO WATER SYSTEM	CRYSTAL CITY	STOCKDALE
EAST MEDINA COUNTY SUD	ZAVALA COUNTY WCID 1	SUNKO WSC
MEDINA COUNTY WCID 2	BATESVILLE WSC	S S WSC
MEDINA RIVER WEST WSC	LOMA ALTA CHULA VISTA WATER	THREE OAKS WSC
WEST MEDINA WSC	SYSTEM	EAST CENTRAL SUD
		PICOSA WSC

Proposed Feedback/Recommendation to SCTRWPG
<ul style="list-style-type: none">Remove Rancho Del Lago from Region L since the WUG is located wholly within Blanco County (Region K)Change WUG name from “Maxwell WSC” to “Maxwell SUD”

Draft Municipal Historical Data



- Draft data released March 2022
- RWPG Responsibilities:
 - Review and submit revisions via consultant
 - Due to TWDB by **August 2023**, but we can submit any time before then

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21

21

Draft Municipal Historical Data

- Historical Data, including
 - Historical WUG-level population estimates
 - Net water use by public water system collected through TWDB water user surveys
 - Historical calculated Gallons per Capita Daily (GPCD)
 - New Draft Baseline GPCDs
- RWPG Responsibilities
 - Review historical data and let TWDB know of any revisions
 - Revisions to Baseline GPCD numbers can be requested in 2023 as well as part of the population and municipal demand review

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22

22

Draft Municipal Water User Group List (WUG) and Historical Data

- WUG Historical Population and Gallons per Capita Daily (GPCD) Estimates
 - Population estimates (2010-2020) developed by TWDB using 2010 and 2020 Census Block data.
 - Net use (2010-2020) reported by public water system and aggregated by utility-based WUG.
 - GPCD estimates 2010-2020
- New Draft Baseline Gallons per Capita Daily (GPCD)
 - Since the first projected decade (2030) is more than ten years from the baseline data, accumulated passive savings from plumbing code savings is removed from the base 2022 State Water Plan GPCD to calculate a new base GPCD for each WUG. GPCDs are draft and subject to revision by RWPGs.
 - All new WUG GPCDs use 2018. If 2018 = 0, then 2019 GPCD is used.
 - Any GPCD below 60 is increased to 60, since 60 is considered a 'floor'.
 - Statewide, draft baseline GPCDs are generally lower than the 2021 RWPGs baseline GPCD

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23

23

Draft Municipal Water User Group List (WUG) and Historical Data

- RWPG Responsibilities
 - Review list of WUGs and submit revisions (merges, additions, etc.) to TWDB
 - Review historical data and let TWDB know of any revisions
 - WUG List revisions due to TWDB by **July 29, 2022**
 - Revisions to Baseline GPCD numbers can be requested in 2023 as well as part of the population and municipal demand review
- WUG Responsibilities:
 - Review list of WUGs
 - If questions, contact technical consultant
 - If WUG desires revisions, contact technical consultant, who will gather information and provide it to Population and Water Demands Workgroup

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24

24

Possible Options for Path Forward

- Deadline – July 29, 2022
 - SCTRWPG approves known revisions at May 5th RWPG Meeting; and ratifies any additional revisions at August 6th RWPG meeting
 - Delegate Providing All Region L Feedback to Population and Water Demands Workgroup
 - Consider moving next RWPG meeting from August 6th to sometime before July 29th

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25

25

Draft Water Demands: Livestock, Manufacturing, and Steam-electric Power



- Draft data released January 2022
- RWPG Responsibilities:
 - Review and submit revisions via consultant
 - Due to TWDB by **July 2023**, but we can submit any time before then

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26

26

27



Draft Water Demand Projections: Livestock

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	0.09	0.077
	Broilers		
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

Source: TWDB

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29

Draft Water Demand Projections: Livestock

2026 DRAFT Regional Water Plan Projections: LIVESTOCK							
County	2030	2040	2050	2060	2070	2080	
ATASCOSA	1,401	1,401	1,401	1,401	1,401	1,401	1,401
BEXAR	774	774	774	774	774	774	774
CALDWELL	957	957	957	957	957	957	957
CALHOUN	272	272	272	272	272	272	272
COMAL	304	304	304	304	304	304	304
DEWITT	1,569	1,569	1,569	1,569	1,569	1,569	1,569
DIMMIT	346	346	346	346	346	346	346
FRIO	1,045	1,045	1,045	1,045	1,045	1,045	1,045
GOLIAD	738	738	738	738	738	738	738
GONZALES	4,307	4,307	4,307	4,307	4,307	4,307	4,307
GUADALUPE	1,031	1,031	1,031	1,031	1,031	1,031	1,031
HAYS	2,648	2,648	2,648	2,648	2,648	2,648	2,648
KARNES	820	820	820	820	820	820	820
KENDALL	381	381	381	381	381	381	381
LA SALLE	297	297	297	297	297	297	297
MEDINA	971	971	971	971	971	971	971
REFUGIO	448	448	448	448	448	448	448
UVALDE	1,900	1,900	1,900	1,900	1,900	1,900	1,900
VICTORIA	893	893	893	893	893	893	893
WILSON	1,528	1,528	1,528	1,528	1,528	1,528	1,528
ZAVALA	816	816	816	816	816	816	816
	23,446	23,446	23,446	23,446	23,446	23,446	23,446

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30

Draft Livestock Water Demand Projections Major Changes from Last Cycle

- Guadalupe County
 - 9,600 AFY in 2021 Plan
 - 4,300 AFY for 2026 Plan
 - No animal inventory provided as supporting data
 - A request could be made to TWDB for the inventory data if it would be helpful
- No other identified significant county changes – smaller changes for each county from last cycle to this cycle, both increases and decreases

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31

31

Draft Water Demand Projections: Livestock Criteria for Adjustment

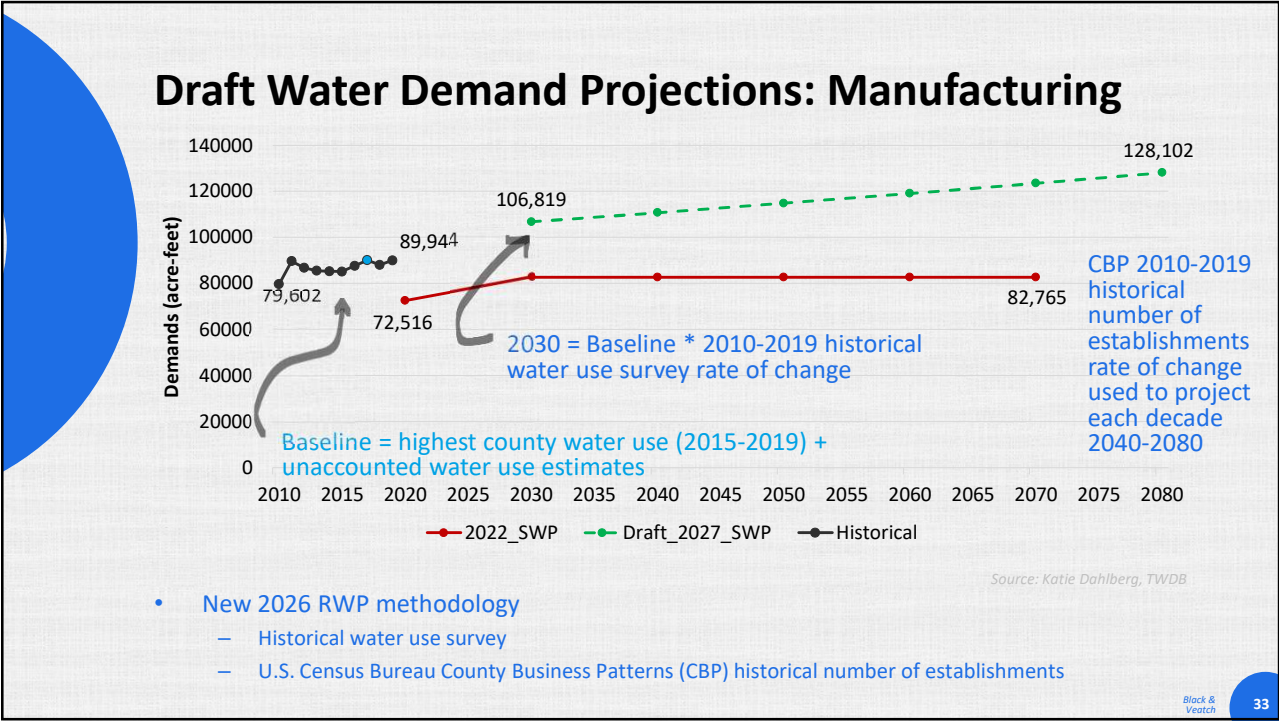
One or more of the following criteria must be verified by the regional water planning group and the Executive Administrator for consideration of revising the livestock water demand projections:

1. Evidence that livestock water use estimates for a county from another source are more accurate than those used in the draft projections..
2. Plans for the construction, expansion, or closure of a confined livestock feeding operation in a county at some future date.
3. Other evidence of change in livestock inventory or water requirements that would justify an adjustment in the projected future rate of change in livestock water demand.
4. Evidence of errors identified in historical water use, including volumes of reuse (treated effluent) or brackish groundwater that were not included in the draft projections.

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32

32



33

Draft Water Demands for Manufacturing

2026 DRAFT Regional Water Plan Projections							
County	2030	2040	2050	2060	2070	2080	
ATASCOSA	56	58	60	62	64	66	
BEXAR	8,873	9,201	9,541	9,894	10,260	10,640	
CALDWELL	14	15	16	17	18	19	
CALHOUN	54,587	56,607	58,701	60,873	63,125	65,461	
COMAL	3,503	3,633	3,767	3,906	4,051	4,201	
DEWITT	248	257	267	277	287	298	
DIMMIT	0	0	0	0	0	0	
FRIIO	0	0	0	0	0	0	
GOLIAD	0	0	0	0	0	0	
GONZALES	2,311	2,397	2,486	2,578	2,673	2,772	
GUADALUPE	3,194	3,312	3,435	3,562	3,694	3,831	
HAYS	57	59	61	63	65	67	
KARNES	69	72	75	78	81	84	
KENDALL	46	48	50	52	54	56	
LA SALLE	0	0	0	0	0	0	
MEDINA	15	16	17	18	19	20	
REFUGIO	0	0	0	0	0	0	
UVALDE	0	0	0	0	0	0	
VICTORIA	33,052	34,275	35,543	36,858	38,222	39,636	
WILSON	62	64	66	68	71	74	
ZAVALA	732	759	787	816	846	877	
	106,819	110,773	114,872	119,122	123,530	128,102	

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34

Draft Manufacturing Water Demand Projections Major Changes from Last Cycle

- Victoria County
 - Significant increase in demand since last cycle (from 9,000 AFY to 33,000 AFY)
 - 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
 - Reason for change not clear at this time
 - EQUISTAR CHEMICALS – VICTORIA PLANT
 - New demand of 8,600 AFY identified for 2019
- No other identified significant county changes

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35

35

Draft Manufacturing Water Demand Projections Criteria for Adjustment

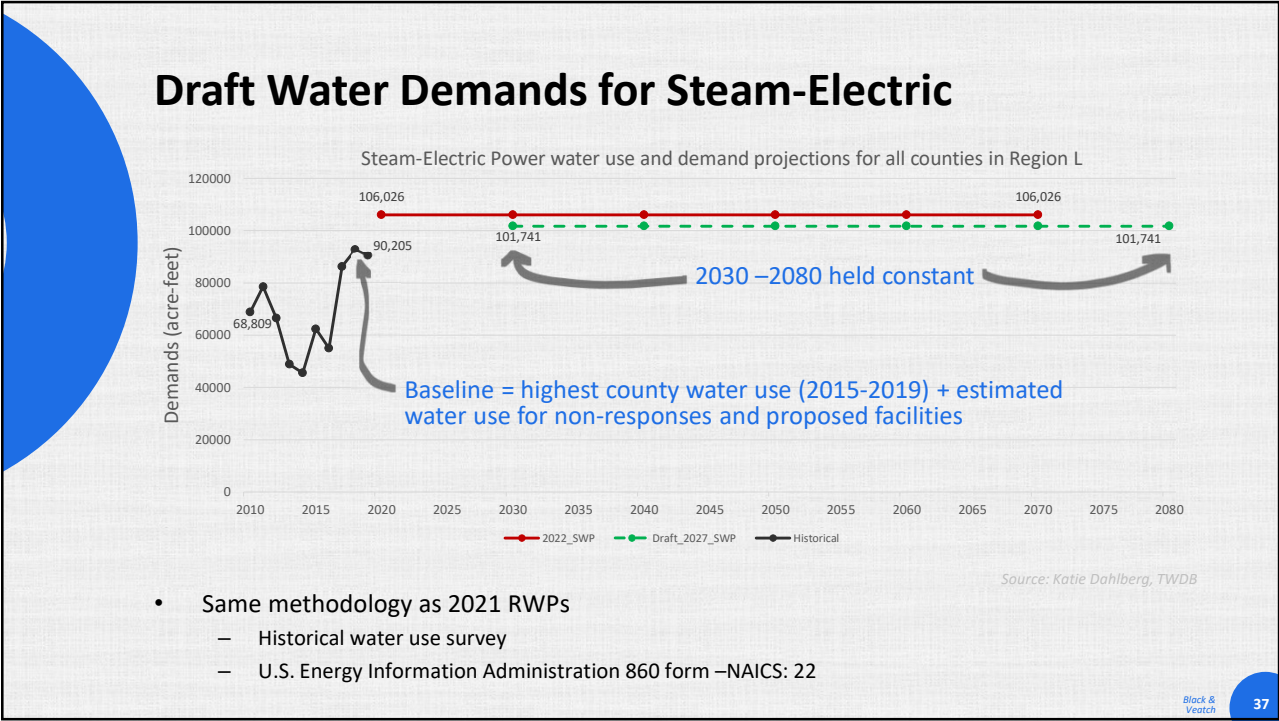
One or more of the following criteria must be verified by the regional water planning group and the Executive Administrator for consideration of revising the manufacturing water demand projections:

1. Evidence of a new or existing facility that has not been included in the TWDB's Water Use Survey.
2. Evidence of an industrial facility that has recently closed its operation in a county.
3. Plans for new construction, or expansion or closure of an existing industrial facility in a county at some future date.
4. Evidence of a long-term projected water demand of a facility or industry within a county that is substantially different than the draft projections.
5. Evidence of errors identified in historical water use, including volumes of reuse (treated effluent) or brackish groundwater that were not included in the draft projections.
6. Evidence that holding demands constant from 2040-2080 would better reflect future efficiencies and water use.

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36

36



37

Draft Water Demands for Steam-Electric

County	2026 DRAFT Regional Water Plan Projections					
	2030	2040	2050	2060	2070	2080
ATASCOSA	7,962	7,962	7,962	7,962	7,962	7,962
BEXAR	76,539	76,539	76,539	76,539	76,539	76,539
CALDWELL	0	0	0	0	0	0
CALHOUN	37	37	37	37	37	37
COMAL	0	0	0	0	0	0
DEWITT	0	0	0	0	0	0
DIMMIT	0	0	0	0	0	0
FRIO	54	54	54	54	54	54
GOLIAD	4,994	4,994	4,994	4,994	4,994	4,994
GONZALES	0	0	0	0	0	0
GUADALUPE	7,008	7,008	7,008	7,008	7,008	7,008
HAYS	1,949	1,949	1,949	1,949	1,949	1,949
KARNES	0	0	0	0	0	0
KENDALL	0	0	0	0	0	0
LA SALLE	0	0	0	0	0	0
MEDINA	0	0	0	0	0	0
REFUGIO	0	0	0	0	0	0
UVALDE	0	0	0	0	0	0
VICTORIA	3,198	3,198	3,198	3,198	3,198	3,198
WILSON	0	0	0	0	0	0
ZAVALA	0	0	0	0	0	0
	101,741	101,741	101,741	101,741	101,741	101,741

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38

Draft Steam-Electric Water Demand Projections Major Changes from Last Cycle

- Bexar County
 - Increased net use in 2017-2019 at two CPS Energy Plants (ARTHUR VON ROSENBERG POWER PLANT; OW SOMMERS JT DEELY PLANT JK SPRUCE)
 - Reuse added as a source of water starting in 2015 – historical water use showing equal amounts of surface water and reuse water used in 2017-2019
- Goliad County
 - Coletto Creek Power LLC net use jumped by almost 3,500 AFY from 2018 to 2019
- Hays County
 - Hays Energy facility was reported as Hays - K in the 2022 projection. Location was confirmed as Hays - L for the 2027 projection.
- Victoria County
 - Water use for VICTORIA WLE LP-VICTORIA STEAM POWER STATION significantly decreased after 2012
- Wilson County
 - Previously proposed plant was canceled

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39

39

Draft Steam-Electric Water Demand Projections Criteria for Adjustment

One or more of the following criteria must be verified by the regional water planning group and the Executive Administrator for consideration of revising the power generation water demand projections:

1. Documentation that the draft projections have not included a facility that warrants inclusion.
2. Any local information related to new facilities or facility closures that may not have been included in U.S. Energy Information Administration report.
3. Evidence of a long-term projected water demand of a facility or a county that is substantially different than the draft projections.
4. Evidence of errors identified in historical water use, including volumes of reuse (treated effluent) water or brackish groundwater that were not included in the draft projections.
5. Evidence that a currently operating power generation facility has experienced a higher dry-year water use beyond the most recent five years, within the most recent 10 years.

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40

40

Discussion.

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

41