

AGENDA

Lower Colorado Regional Water Planning Group Meeting

July 27, 2022, 10:00 a.m.

Hybrid Meeting

In Person:

LCRA Dalchau Service Center
3505 Montopolis Drive
Austin, TX

Online:

<https://lcra-org.zoom.us/j/87398409793?pwd=NEhXR28zbUxlellya1Irand2RURGdz09>

Telephone: US: +1 346-248-7799

Webinar ID: 873 9840 9793

Passcode: 35050

**LCRWPG Members will be provided individual panelist links via email*

Regular Meeting:

1. Call to Order – Acting Chair
2. Welcome and Introductions – Acting Chair
3. Receive public comments on specific issues related to agenda items 4 through 11. (Public comments limited to 3 minutes per speaker.)
4. Planning Group Membership – Acting Chair
 - a. Roll Call Attendance
 - b. Attendance report
 - c. River Authorities interest category:
 - i. Acknowledge resignation of David Wheelock and determine the need for public posting and,
 - ii. Take action as appropriate on replacement of David Wheelock by Monica Masters, VP of Water Resources at LCRA (River Authorities alternate) as a voting member
 - d. Take action as appropriate to fill the vacant Vice Chair position on the Executive Committee (nominations will be taken from the floor per bylaws)
5. Consider approval of Minutes – Acting Chair
 - a. April 27, 2021
6. Texas Water Development Board (TWDB) Report
 - a. Update on regional water planning activities and schedules – Lann Bookout, TWDB
 - b. Demand Projections presentation (10 minutes) – Katie Dalberg, TWDB

7. Committee Reports
 - a. Population and Demand Projections Committee Report – Lauri Gillam, Committee Chair
8. Take action as appropriate on recommendations from the Population and Demand Projections Committee regarding Water User Group designations – Acting Chair
9. Consultant Report – Stephanie Moore, INTERA
 - a. Regional Water Planning 101 (maximum 20 minutes)
 - b. Progress to date
 - i. Draft Livestock, Manufacturing and Steam Electric Projections
 - ii. Municipal WUG list, GPCD, historical population and water use data
 - c. Upcoming efforts
 - i. Draft Mining and Irrigation demand projections
 - ii. Draft Municipal demand projections
10. Interregional Coordination Activities – Acting Chair
 - a. Interregional Planning Council report
 - b. Updates from liaisons to neighboring planning regions
 - i. Liaison to Region G: Michael Redman
 - ii. Liaison to Region J: Paul Tybor
 - iii. Liaison to Region L: Ron Fieseler
 - iv. Liaison to Region P: Daniel Berglund
 - v. Liaison to Region F: empty
 - vi. Liaison to Region H: empty
11. Financial Report – Acting Chair
12. Upcoming meetings:
 - a. Location and date of next RWPG meeting
 - b. Other committee meetings
13. New / Other Business (time permitting)
14. Public Comments – limit 3 minutes per person
15. Adjourn

4.b. Attendance Report

Lower Colorado Regional Water Planning Group Meeting Voting Member Attendance Record
for Secretary's LCRWPG Voting Member Attendance Report on 7/27/2022

Regular meetings held over the past 2 years are shown.

Voting Members									
Name	Interest	County	Year Term Expires*	10/14/2020 Virtual	1/27/2021 Virtual	7/21/2021 Virtual	9/15/2021 Dalchau Service Center Austin	1/26/2022 Dalchau Service Center Austin	4/27/2022 Dalchau Service Center Austin
1 Berglund, Daniel	Small Business	Wharton	2026	X	Absent	X	Absent	X	Absent
2 Brasher, Jim	GMA 15	Colorado	n/a	X	X	X	X	X	X
3 Castleberry Christianne	Water Utilities	Bastrop	2027					X Elected	X
4 Fieseler, Ron	GMA 9	Blanco	n/a	X	X	X	Absent - Alternate Attended	X	X
5 Gillam, Lauri	Municipalities	Travis	2023	X	X	X	X	X	X
6 Johnson, Barbara	Industries	Travis	2022	X	X	X	X	X	X
7 Lindsay David	Recreation	Travis	2024	X	X	X	X	X	X
8 Ludwig, Jason	Electric Gen. Utilities	Matagorda	2026	X	X	Absent	Absent	X	X
9 Luther Jim	Counties	Burnet	2022	X	X	Absent	X	X	Absent
10 Lutes, Teresa	Municipalities	Williamson	2022	X	X	Absent - Alternate Attended	Absent - Alternate Attended	X	X
11 McElroy, Ann	Environmental	San Saba	2022	X	X	Absent	Absent	X	X
12 Olewin Carol	Public	Travis	2026				X Elected	X	X
13 Olfers, Charles	Agriculture	Gillespie	2023	Absent	X	X	Absent	Absent - Alternate Attended	Absent
14 Reagor, Mike	Municipalities	Llano	2023	X	X	X	X	X	X
15 Redman Michael	GMA 10	Travis	n/a					X - Appointed by GMA	Absent - Alternate Attended
16 Ruggiero, Robert	Small Business	Travis	2024	X	X	X	X	X	Absent
17 Sliva, Paul	Agriculture	Matagorda	2026	Absent	Absent	Absent	Absent	X	Absent
18 Sodek, Mitchell	GMA 8	Burnet	n/a	X	X	X	X	Absent - Alternate Attended	X
19 Theodosios, Byron	Counties	San Saba	2026	Absent	X	X	X	X	Absent
20 Totten, Jim	GMA 12	Bastrop	n/a	X	X	X	Absent	X	X
21 Tybor, Paul	GMA 7	Gillespie	n/a	X	X	X	X	X	X
22 Uecker, Emil	Counties	Blanco	2027					X Elected	X
23 Van Dresar, David	Water Districts	Fayette	2024	X	X	X	X	Absent	Absent
24 Walker, Jennifer	Environmental	Travis	2022	X	Absent - Alternate Attended	X	X	X	Absent - Alternate Attended
25 Wheelock, David	River Authorities	Travis	2023	X	X	X	X	X	X

*Jan. 1/Dec. 31st of previous year (for example, 2021 terms expire Dec. 31st, 2020)

4.c. River Authorities Interest Category



June 1, 2022

David Van Dresar
Chair
Lower Colorado Regional Water Planning Group
c/o LCRA
PO Box 220
Austin, TX 78767

Dear Mr. Van Dresar:

I will be retiring from LCRA in mid-July and I will no longer be able to participate as a voting member of Region K. This letter is my notice of resignation as a voting member and vice-chair of the planning group. I intend for my resignation to be effective July 1, 2022.

My alternate is Monica Masters, VP of Water Resources at LCRA and Monica will continue in my stead until the planning group votes to seat her as a voting member.

It has been my sincere pleasure to serve with you and each of the members on the planning group. I'm wishing you all the best in the future and for the completion of the next regional water plan.

Very truly yours,

A handwritten signature in blue ink that reads 'David Wheelock'. The signature is fluid and cursive, written in a professional style.

David Wheelock, P.E.
Director, Water Supply Planning

cc: Monica Masters

5. Meeting Minutes

DRAFT MEETING MINUTES
Lower Colorado Regional Water Planning Group Meeting
April 27, 2022

LCRA Dalchau Service Center
3505 Montopolis Drive
Austin, TX
10:00 a.m.

Regular Meeting Minutes:

Members Signed in:

Jim Brasher	Carol Olewin
Christianne Castleberry	Mike Reagor
Ron Fieseler	Mitchell Sodek
Lauri Gillam	Jim Totten
Barbara Johnson	Paul Tybor
David Lindsay	Emil Uecker
Jason Ludwig	David Wheelock
Teresa Lutes	Tim Loftus (Alternate for Michael Redman)
Ann McElroy	Charlie Flatten (Alternate for Jennifer Walker)

Voting Members Absent

Daniel Berglund	Paul Sliva
Jim Luther	Byron Theodosis
Charles Olfers	David Van Dresar
Michael Redman	Jennifer Walker
Robert Ruggiero	

Support/Consultants/Visitors

Annette Keaveny, LCRA	Stephanie Moore, INTERA
Sue Thornton, CTWC	Helen Gerlach, Austin Water
Dianne Wassenich, Region L	Sara Eatman, Austin Water
Lann Bookout, TWDB	Sara Hoes, Austin Water
Blake Neffendorf, City of Buda	Jamie Burke, B&V
Vanessa Escobar, Blanton & Associates	Alicia Smiley, B&V
Cindy Smiley, Smiley Law Firm	Robert Adams, Plummer
Shrader Davis, CTGCD	Monica Masters, LCRA
Mike Thuss, WRA	Earl L. Foster
Andy Wier, SAWDF	Lauren Mayes, TDA
Laurence Brown, TSSWCB	

Quorum

Quorum: yes
Number of voting members or alternates representing voting members present: 18
Number required for quorum per current voting membership of 25: 13
Number of voting members required for 2/3 vote: 17

Formal Actions Taken:

1. The Regional Water Planning Group (RWPG) approved voting members with expiring terms to continue to serve for an additional term. These voting members are: Barbara Johnson (Industrial), Jim Luther (Counties), Teresa Lutes (Municipalities), Ann McElroy (Environmental), and Jennifer Walker (Environmental). The new terms will end in 2027.
2. The minutes from the January 26, 2022 meeting were approved as presented and minutes from the September 15, 2021 meeting were approved with changes.
3. The RWPG authorized the Lower Colorado River Authority to negotiate and execute an amendment to the TWDB contract to incorporate the full scope of work and total project cost for the 2026 Regional Water Plans.

Minutes:

1. Call to Order – Vice Chairman David Wheelock called the meeting to order at 10:00 a.m. A roll call of the planning group members was taken to record attendance.
2. Welcome and Introductions – David Wheelock welcomed attendees.
3. Receive public comments on specific issues related to agenda items 4 through 11.

Andy Wier, Executive Director for Simsboro Aquifer Water Defense Fund (SAWDF).

Mr. Wier described the work that SAWDF does for the area and thanked the group for including his comments in the September meeting minutes. The speaker expressed that best available science shows that groundwater pumping will reduce surface water. In Region K, pumping from the central Carrizo Aquifer will affect flows in the Colorado River. SAWDF encourages Region K to promote conservation, reuse, and aquifer storage and recovery projects. He recommended that those involved in regional water planning should read the 2021 publication “Five Gallons in a Ten Gallon Hat; Groundwater Sustainability in Texas” from Dr. Mace at the Meadows Center. Dr. Mace’s research shows that the modeled available groundwater (MAGs) numbers overestimate sustainable production (2020 MAGs are estimated to be 2.7 times higher than the sustainable pumping level), and Mr. Wier recommends that the LCRWPG consider applying a reduction to the MAGs for the purposes of sustainable planning. Mr. Wier expressed that sustainable production of groundwater can help protect surface water flow as well as property rights. Mr. Wier again urged the planning group to read the research from the Meadows Center and develop an informed and sustainable plan for central Texas’ water resources.

4. Planning Group Membership
 - a. Attendance report – Teresa Lutes
 - i. It was noted that Paul Sliva has attended fewer than half of the meetings over the last year, the goal set out in the bylaws. Ms. Lutes noted that she would reach out to Mr. Sliva and remind him of the attendance requirements.
 - b. Introduce GMA 10 representative Michael Redmond – Mr. Redmond was not able to attend the meeting. However, Mr. Tim Loftis, alternate for Mr. Redmond, was present in his place. Both Mr. Loftis and Mr. Redmond were welcomed.
 - c. Requests to continue serving from members with expired terms – David Wheelock. Bylaws require 2/3 of membership (17 votes) to approve a member for an additional term. Ron Fieseler made a motion to approve members with expiring

terms, considering them one-by-one to meet 2/3 requirement, to continue to serve for an additional term. Lauri Gillam seconded. The following membership renewals were all approved unanimously:

- Barbara Johnson
- Jim Luther
- Teresa Lutes
- Ann McElroy
- Jennifer Walker

The new terms will end in 2027.

5. Consider approval of Minutes – Teresa Lutes

- a. September 15, 2021 – Minutes were revised since they were presented at the January meeting to better reflect the public comments at the request of the planning group. Carol Olewin should be listed on the Bylaws Committee – meeting minutes item 10. Motion to approve was made by Barbara Johnson and seconded by Christianne Castleberry to approve the minutes with the noted changes.
- b. January 26, 2022 – A motion to approve the minutes as presented was made by Jim Brasher and seconded by Jason Ludwig.

6. Discussion the need for the RWPG to authorize the Lower Colorado River Authority to negotiate and execute an amendment to the TWDB contract to incorporate the full scope of work and total project cost for the 2026 Regional Water Plans. David Wheelock noted that this authorization is only for the work that the Consultant outlined in the regional water planning overview presentation (available in the meeting materials posted on the Region K website). A motion was made by Jim Brasher to authorize the Lower Colorado River Authority to negotiate and execute an amendment to the TWDB contract to incorporate the full scope of work and total project cost for the 2026 Regional Water Plans. This motion was seconded by Paul Tybor and approved unanimously by the planning group. (Note – during the meeting, this item was taken up after Agenda Item 9, below, Consultant report.)

7. Interregional Coordination Activities – David Wheelock

- a. Notice was sent to the Interregional Planning Council that David Van Dresar and Anne McElroy will serve as Region K's representative and alternate, respectively. No further updates were noted.
- b. Updates from liaisons to neighboring planning regions
 - i. Liaison to Region G: Michael Redman- Region G met March 23rd and discussed the region-specific timeline for planning; adopted updated bylaws and filled vacant positions.
 - ii. Liaison to Region J: Paul Tybor- No updates from Region J
 - iii. Liaison to Region L: Ron Fieseler - No update, trying to coordinate meetings and committees but anticipate being able to attend more consistently in the future, will have update at next meeting.

- iv. Liaison to Region P: Daniel Berglund (absent)
- v. Liaison to Region F: vacant
- vi. Liaison to Region H: vacant

8. Texas Water Development Board (TWDB) Report

- a. Update on regional water planning activities and schedules – Lann Bookout

Mr. Bookout noted that TWDB adopted changes to the water planning rules on April 11th. SWIFT applications will be due the first part of May; decisions will be made in Summer. The TWDB will consider additions to scope and funding for Regional Water Planning contracts in July, in accordance with requests, (addressed in Agenda Item 6).

9. Consultant Report – Stephanie Moore, INTERA

- a. *Regional Water Planning 101*. Ms. Moore presented background on the regional and state water planning processes, regional water planning groups, and planning group membership and responsibilities. Ms. Moore also reviewed fundamentals of planning, including basic planning parameters, units and key terms, the planning process and flow, and standard plan chapters. Ms. Moore noted that her slides are from the TWDB and are available on the TWDB water planning website along with additional resources.

David Lindsay asked how the Lower Colorado River Authority Water Management Plan (WMP) and demand estimates are included in the regional water planning process. He also asked about water availability; if all permits and environmental requirements are included in the water availability calculation. Stephanie noted that at this point, early in the process, only population estimates are available and water availability modeling will be discussed later in the cycle. David Wheelock called attention to slide 28 in the presentation addressing water availability, which includes agricultural use, environmental needs, regulatory requirements, and the LCRA WMP. Environmental flows are not listed as a demand in the regional water planning process.

- b. *6th Cycle Planning progress*. Ms. Moore noted that comments or corrections to the water user group (WUG) list and historical data are due July 29, 2022; the livestock, manufacturing, and steam electric power generation water demand projections were released in January 2022, and the mining and irrigation demands (the other two non-municipal demands) will be released later in 2022. Request for revisions for all non-municipal draft demands will be due July 2023.

- i. *Draft Livestock, Manufacturing and Steam Electric demand projections.*

- 1. Livestock: Stephanie presented the livestock demand projections for Region K. This is not a large use sector for Region K. For the 2026 regional water plan (RWP) livestock use coefficients were adjusted slightly, resulting in a slightly lower projected livestock demand over the planning horizon.

Barbara Johnson asked if there is a comparison of past projected use and actual use to determine how accurate projections in this

category have been in the past. Stephanie said that it is very difficult to measure actual livestock water use, so there is not a comparison she is aware of. Lann added that there is a one-pager methodology covering the method used to make the livestock projections for those interested in diving in to the methodology in more detail. According to Lann, the drop in demands may have been influenced by a switch from production numbers to inventory numbers of livestock, as TWDB decided that inventory numbers were a better representation of actual use. Overall, the new projection represents a relatively small decrease (~1,000 AFY) compared to projections from the last planning round (2021 Plan).

2. Manufacturing shows an increase from last cycle's projections by about 3,000 in 2030 to 8,000 AFY by the end of the planning horizon. Lann added that the methodology last time assumed constant manufacturing after 5 years; got feedback that that was not appropriate, so now the methodology linearly increases through the planning horizon.

David Lindsay asked if new plants in the Austin area (like Tesla) are incorporated into the manufacturing demands? Teresa Lutes said that that is something Austin will look at and will consider working through the Population and Demand Committee process to see if the planning group would want to potentially request a TWDB revision, if needed, to capture that growth once the projections are further reviewed.

3. Steam Electric demand projections were developed using the same methodology as 2021 RWP process, but demands are about 60,000 AFY lower than last cycle due to changes in facility assumptions. The 2026 plan process projections include relatively large-scale decreases in Fayette and Matagorda Counties.

Mike Reagor noted that there projected manufacturing demand increases and steam electric decreases and that it seems like those would be correlated to either both go up or down together. David Wheelock noted that past trends in the electric industry have shown increased efficiency and less use of water in addition to use of renewable energy sources, so projection decreases may reflect that.

Carol Olewin asked about nuclear plants; Jason Ludwig said that no additional nuclear units are currently planned to the South Texas Project facility. Teresa Lutes noted that the demand committee will look at the demands in more detail, and that the City of Austin also has steam-electric demands that need to be reviewed.. All members are encouraged to review information and bring up questions/ comments, not just the interest group representatives.

- ii. *Municipal WUG list, GPCD, historical population and water use.* There is a July 29, 2022 deadline for feedback to TWDB on the water user group (WUG) list and historical data. A municipal WUG is defined as utility with annual water use of more than 100 AF, or any utility that the planning group designates as a WUG. WUGs from past planning rounds with active public

water systems (PWSs) were carried over to this planning cycle, and new WUGs were added, as needed, based on 2015-2019 water use. Utilities with use levels that do not meet the WUG requirement are grouped in the County-Other category (includes domestic well use).

David Lindsay asked if a new water treatment plant for an existing entity would be included; Stephanie answered yes if it is an existing PWS, but if anyone knows of new PWS that may not be included please let the Region K consultant know. Mike Reagor noted that a company in Llano announced a new hydroelectric facility —David Wheelock noted that that should be captured in the steam-electric demand projection category.

Region K WUG list—in the 2021 planning cycle there were 115 WUGs, in 2026 there are 108 proposed WUGs (including 13 County-Other WUGs). 18 WUGs were removed and 11 new WUGs were added. INTERA is preparing the contact list for all the WUGs. Need to review WUG list and historical data by July 29th, so it was suggested that a a Population and Demand Committee meeting needs to be scheduled to review this data and make recommendations to the full planning group.

- iii. *Schedule Population and Demand Projection Committee meeting.* The goal of the committee meeting would be to review the list of WUGs for completeness and accuracy. Eighteen WUG's were removed (possibly merged or spans multiple regions and are planned for by another region). There are eleven new WUGs that passed the 100 acre/foot annual use threshold since the last plan. Region K has a total of 108 WUGs. Logistics of setting the Population and Demand Projection Meeting were discussed.
- iv. *Website updates.* Various website revisions were made. Region K committees are listed including all of the members. All meeting materials are posted and available on the Region K website.
- c. *Upcoming efforts.* The Population and Demand Projection Committee are going to meet and come back, will be presented during the July meeting. INTERA's team will begin updating WUG contact list, in preparation to review draft municipal demands. August 2022 mining will be complete. September 2022 both Mining and irrigation demand projections. February 2023 population and municipal demand projections should be available.

10. Upcoming meetings:

- a. The next meeting will be held July 27, 2022, at the LCRA Dalchau Service Center
- b. The Population and Demand Projection Committee meeting is scheduled for May 23, 2022 at INTERA's offices in Austin

11. New / Other Business (time permitting) - None

12. Public Comments – - None

13. Adjourn- The meeting was adjourned at 11:56 a.m.

6. TWDB Report
 - a. RWP Planning and Schedule
 - b. Demand Projections

2026 Regional Water Plans Projections Methodology Overview

Katie Dahlberg
Manager, Projections & Socioeconomic Analysis
Water Supply Planning

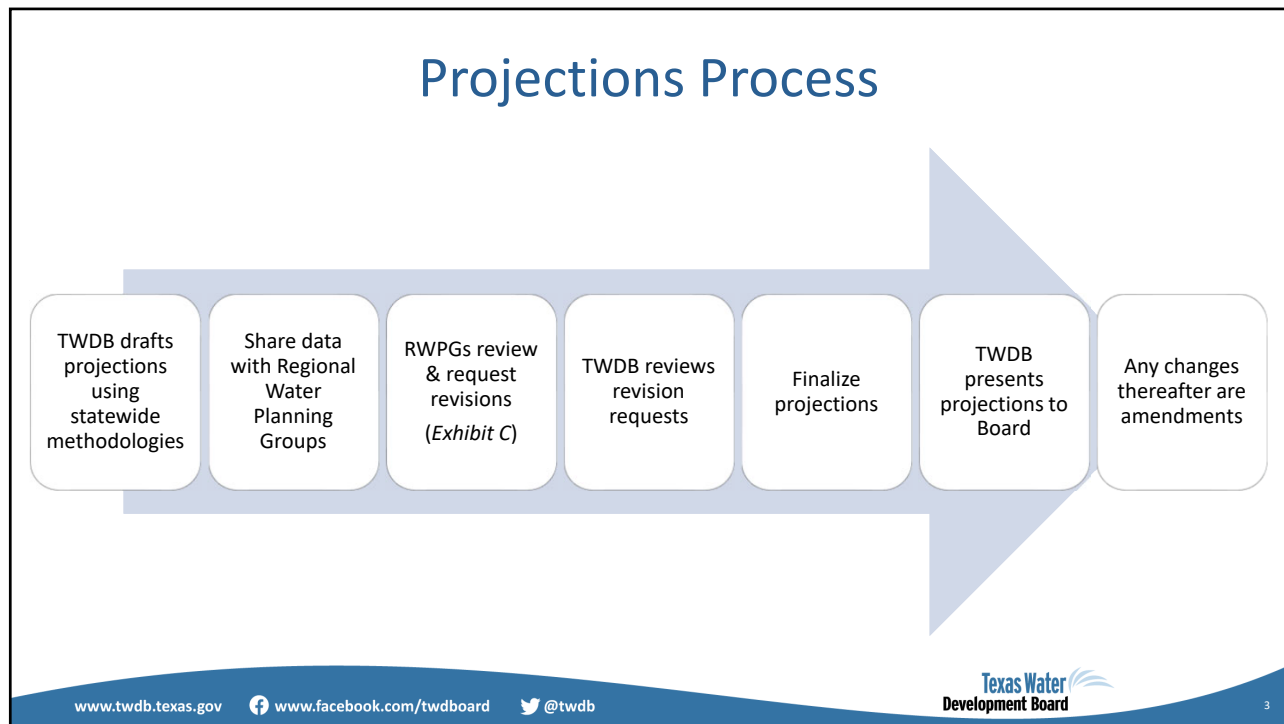
July 27, 2022
Lower Colorado Region K Planning Group Meeting

1

Agenda

- Overview projections process
- Projections data release schedule
- Projections methodologies
 - Non-municipal water demands
 - Population
 - Municipal water demand

2



3

Projections Release Schedule

Draft Water Demand Projections	Timeline
Livestock, Manufacturing, Steam-Electric Projections + Supporting Data	January 20, 2022
Water User Group List + Historical Population, Connections, Net Use, GPCD	March 16, 2022
DUE: RWPGs review WUG list + historical WUG data	July 29, 2022
Irrigation Projections + Supporting Data	August 2022
Mining Projections + Supporting Data	August 2022
Population Projections + Plumbing Code Savings + Municipal Demand	February 2023
DUE: RWPGs request revisions for non-municipal demand projections	July 2023
DUE: RWPGs request revisions for population and municipal demand projections	August 2023

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4

Non-Municipal Water Demand Projections Methodologies

Historical: 2015 - 2019

Projections: 2030 - 2080

5

Irrigation

Same methodology as 2021 RWP

Baseline = 5-year average (2015-2019)

Water sources: groundwater, surface water, reuse

- Most-recent Modeled Available Groundwater

6

Irrigation

2030 – 2080 held constant

- Except counties where groundwater availability (MAG) is less than the groundwater-portion of the demand projections
- Decline commensurate with groundwater availability

Draft projections will be released in August 2022

7

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

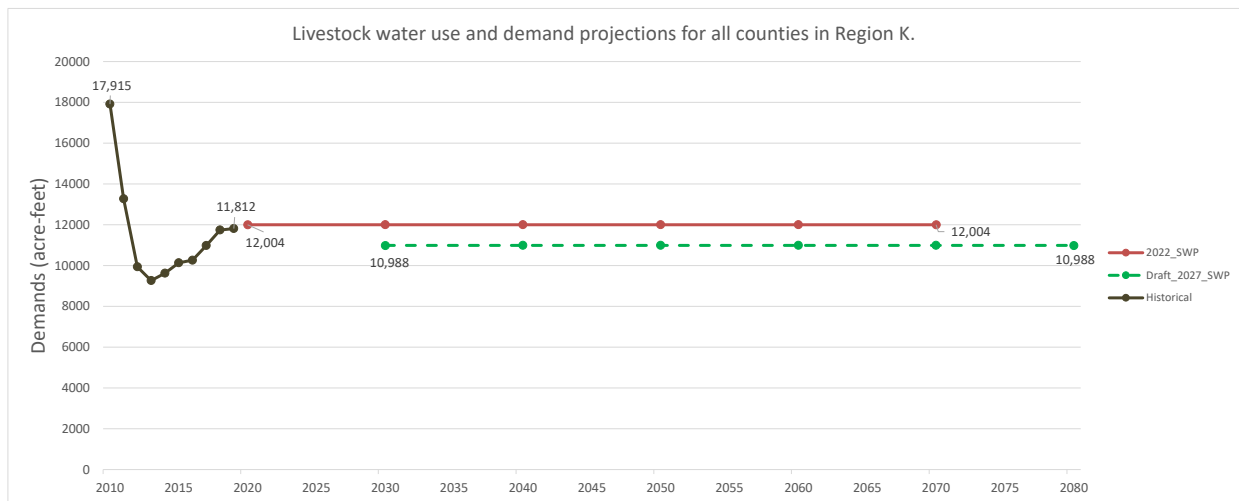
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Livestock Water Use Coefficients

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	
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

9

Livestock Projections: Compare 2021 RWP to Draft 2026 RWP



10

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

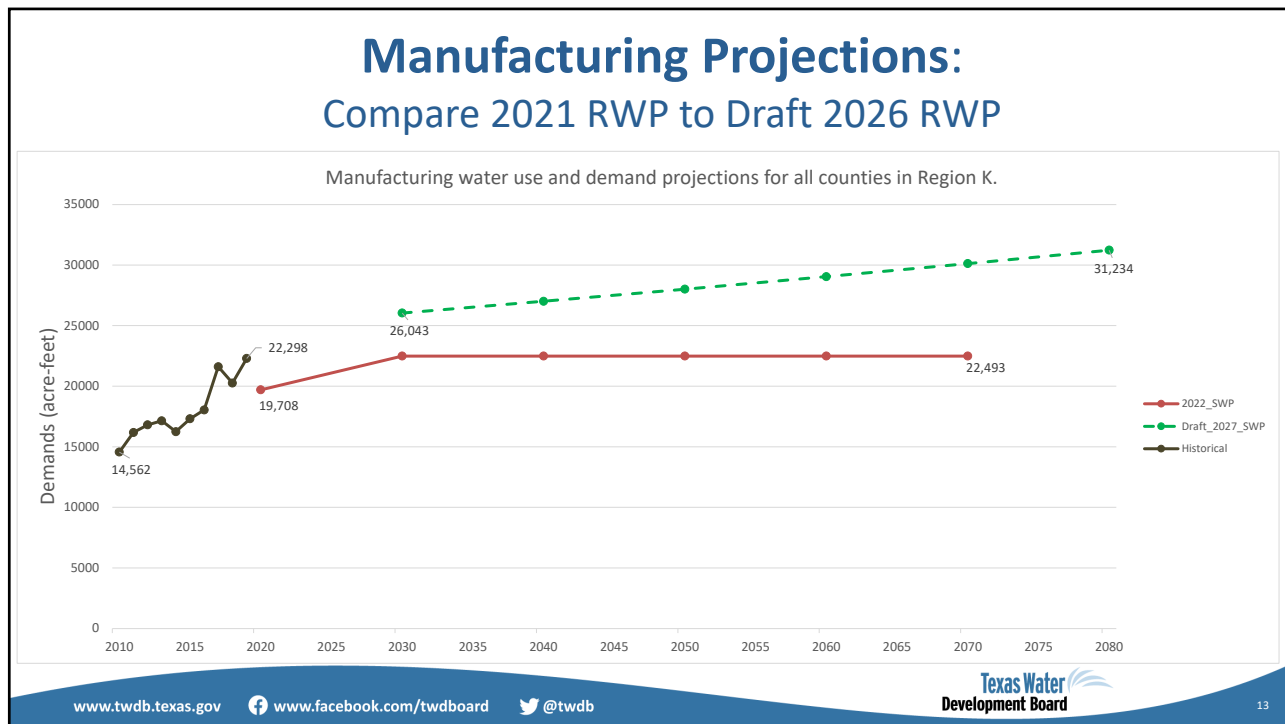
11

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

12



13

Mining

- Study funded by USGS
- Contracted UT Bureau of Economic Geology
- Update to the 2011 study
- Comprehensive and quantitative assessment of mining water use in Texas
 - Oil and gas, aggregates, and coal and lignite
 - Historical estimates
 - Projections for the 2026 Regional Water Plans
- August 2022
- <https://www.twdb.texas.gov/waterplanning/data/projections/MiningStudy/index.asp>

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Steam-Electric Power

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

- 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 new draft projections

15

Steam-Electric Power

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

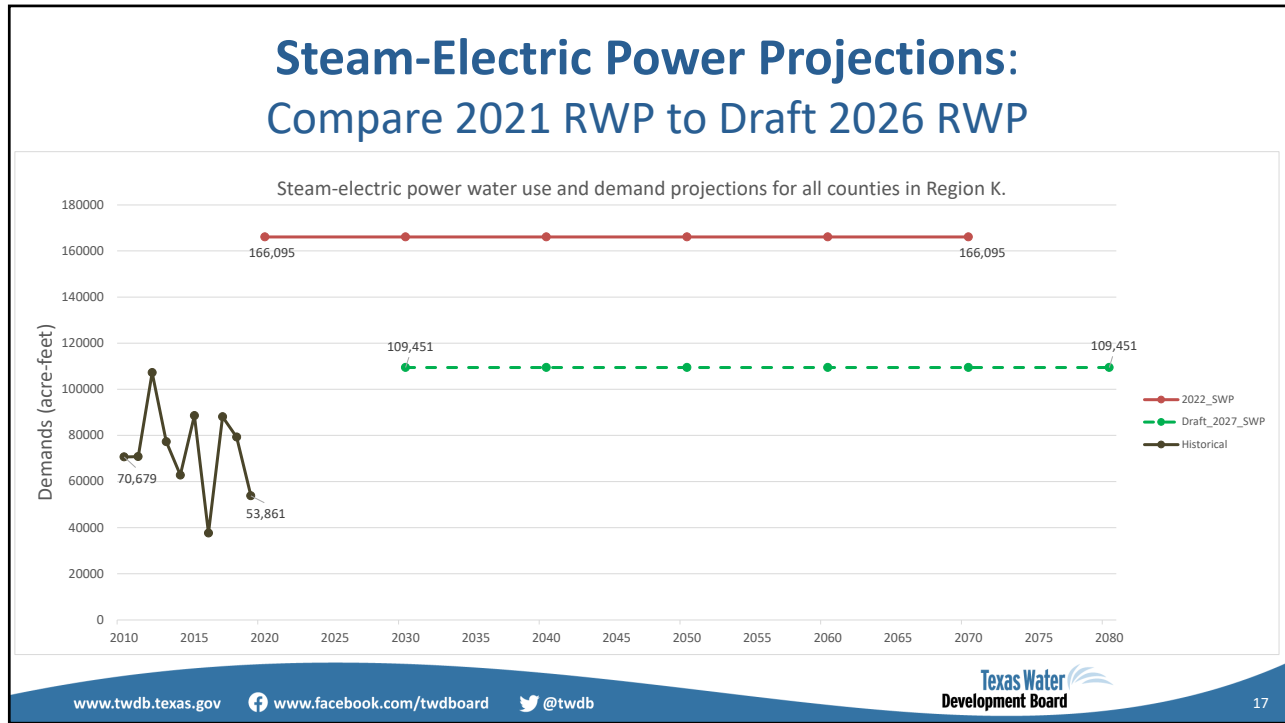
- Consumptive use

2030 – 2080 held constant

Same methodology as the 2021 RWPs

Draft projections released in January 2022

16



17

Steam-Electric Power Projections: Compare 2021 RWP to Draft 2026 RWP County-level

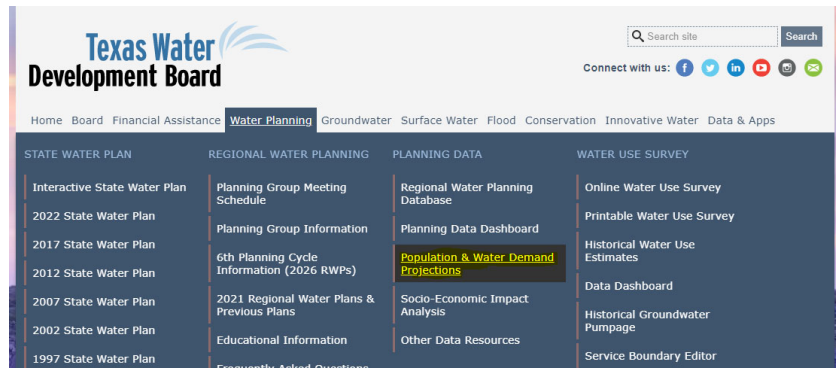
2030 Water Demand (ACFT)		
County	2022 State Water Plan	2027 Draft Projections
BASTROP	10,288	7,764
COLORADO	4,971	226
FAYETTE	49,211	20,052
HAYS	1,187	0
LLANO	1,748	1,927
MATAGORDA	80,536	67,453
TRAVIS	10,253	4,116
WHARTON	7,901	7,913
Total	166,095	109,451

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2026 RWP Draft Projections

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



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Municipal Projections Methodology

Historical: 2010 - 2020

Projections: 2030 - 2080

20

Water User Groups

- Municipal WUGs: utility water use of 100 acre-feet or more
 - 31 TAC § 357.10(43)
- WUGs in the 2021 RWP will be carried over, as long as they have active public water systems
- All new utilities will be evaluated based on water use from 2015-2019

21

Region K – Municipal WUG Counts

- 2021 RWP: 100 WUGs
- 2026 RWP draft: 109 WUGs
- Including 14 County-Other WUGs

22

Population Projections

- Based on Texas Demographic Center’s projections for counties in Texas
- Distributed to WUGs
 - Historical 2010-2020 share of growth or share of population
- Difference this planning cycle: if a county’s population is projected by TDC to decline, then the TWDB’s county population projections will also decline
- 2030 – 2080

23

Municipal Demand Projections: GPCD

- Gallons per Capita Daily
- Dry-year
- Baseline GPCD = historical
 - Draft: 2021 RWP WUG GPCD
 - New WUGs draft: 2018
- Baseline GPCD minus plumbing code savings already implemented
 - Account for passive savings between historical and projected (2030)
- Water sources: groundwater + surface water
 - Water Use Survey

24

Municipal Demand Projections: PC Savings

- Plumbing Code Savings
- Update this planning cycle
- Residential:
 - Toilets
 - Showerheads
 - Dishwashers
 - Clothes washers
- Will include commercial toilet and urinal water efficiency savings
- 2030 – 2080

25

Municipal Demand Projections

$$\text{Projected Demand} = \frac{(\text{Population} * (\text{GPCD} - \text{PC Savings}) * 365)}{325,851}$$

26

Water Sources

Source	Groundwater		Surface Water				Reuse
	Fresh	Brackish	Fresh	Saline	Consumptive Use Percentage	Seawater	Reuse
Irrigation	x	x	x	x			x
Livestock	x	x	x	x			
Manufacturing	x	x	x				x
Mining	x	x	x	x			x
Steam-electric	x	x	x		x		x
Municipal	x	x	x	x			

27

Questions?

Contact:

Katie Dahlberg

katie.dahlberg@twdb.texas.gov

512-463-2449

Stay connected:



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7.a. Population and Demand Committee Report

July 27, 2022

9:00 AM

Population and Water Demand Committee Meeting



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Agenda Item 3

Review draft WUG list and items discussed during May 23rd committee meeting



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Agenda Item 3

Review TWDB data release and related deadlines



- TWDB March 2022 Data Release
 - Proposed 2027 State Water Plan (SWP) WUG list
 - 2022 and 2022 SWP names
 - Public Water Supply (PWS) water usage data
 - Only WUGs that list their **primary region** as Region K
- Our mission?
 - Assess new, added, or modified WUGs
 - Provide recommendations prior to TWDB population/demand projection
 - Revisions due to TWDB by **July 29, 2022**
- In the future (Feb 2023)
 - These WUGs will come back to us later with projected population and demands

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Agenda Item 3

Review TWDB data release and related deadlines



• What is a municipal Water User Group (WUG)?

- Automatic**
 - Retail public utility providing over 100 ac-ft/yr
 - Owned by political subdivision
- Private, State, or Federal**
 - Provides over 100 ac-ft/yr (**For privately owned utilities, this is average usage across ALL systems in the State**)
 - Requested by the RWPG or the entity
- Collective Reporting Unit**
 - Aggregations of related systems like Regional Water Authorities
 - Requested by the RWPG or the entity
- County-Other**
 - Everyone else

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Agenda Item 3

Review TWDB data release and related deadlines



- Potential WUGs for inclusion in 2026 RWP:

Utility	2017	2018	2019	2020	2021
Headwaters at Barton Creek	99.7	70.3	70.3	148.1	-
La Ventana Water Supply System	93.2	87.7	84.1	101.6	103.2
Lakeside MUD 3	0.0	0.0	0.0	257.9	241.8
The Colony MUD 1A	0.0	0.0	0.0	139.5	170.7
Wilbarger Creek MUD 1	46.9	58.4	80.9	136.0	263.4

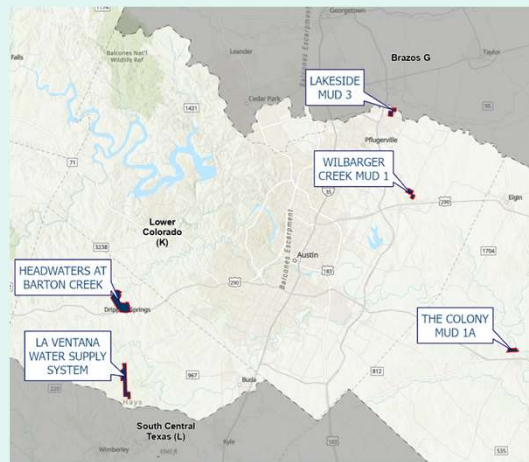
5

Agenda Item 3

Review TWDB data release and related deadlines



- **Headwaters at Barton Creek**
 - Possible error in 2018/2019 water use
- **La Ventana Water Supply System**
 - South of Dripping Springs
- **Lakeside MUD 3**
 - Small portion in Brazos G
- **The Colony MUD 1A**
 - No usage prior to 2020
- **Wilbarger Creek MUD 1**
 - North of Manor



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Agenda Item 4

Consider requests for revisions and any recommendations to the RWPG, as needed



7

Agenda Item 5

Review schedule and consider plan for future meetings of Population and Demand Committee



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Supplemental Information



Various public data sources may be referenced during committee meetings, including:

1. Planning Data Dashboard at <http://www.twdb.texas.gov/waterplanning/data/projections/index.asp>
2. Initial Scope of Work for 2026 Regional Water Plans at https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/projectdocs/InitialSOW_2026RWPs.pdf
3. General Guidelines for Development of the 2026 Regional Water Plans at https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/projectdocs/2026RWP_Exc_Initialtasks.pdf

9. Consultant Report

Agenda Item 9 Consultant Report – July 27, 2022 RWPG Meeting



- a. Regional Water Planning 101
- b. Progress to date
 - i. Draft Livestock, Manufacturing and Steam Electric demand projections
 - ii. Municipal WUG list, GPCD and historical population and water use
- c. Upcoming efforts
 - i. Draft Mining and Irrigation Demand Projections
 - ii. Draft Municipal Demand Projections



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Agenda Item 9a

Regional Water Planning 101



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Agenda Item 9a Regional Water Planning 101

Regional Water Planning in Texas

Introduction † Modified for 6th Cycle!

Prepared by

Water Use, Projections, & Planning
Texas Water Development Board
Updated February 2017

TWDB Disclaimer: The following presentation is based upon professional research and analysis within the scope of the Texas Water Development Board's statutory responsibilities and priorities but, unless specifically noted, does not necessarily reflect official Board positions or decisions.

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Texas Water
Development Board

3

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Key Responsibilities of Planning Group Members

- Represent interest category and region
- Develop a plan that serves region and state
- Consider local water plans
- Ensure adoption of a regional water plan by the statutory deadline that meets all requirements

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Texas Water
Development Board

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4

Basic Planning Parameters

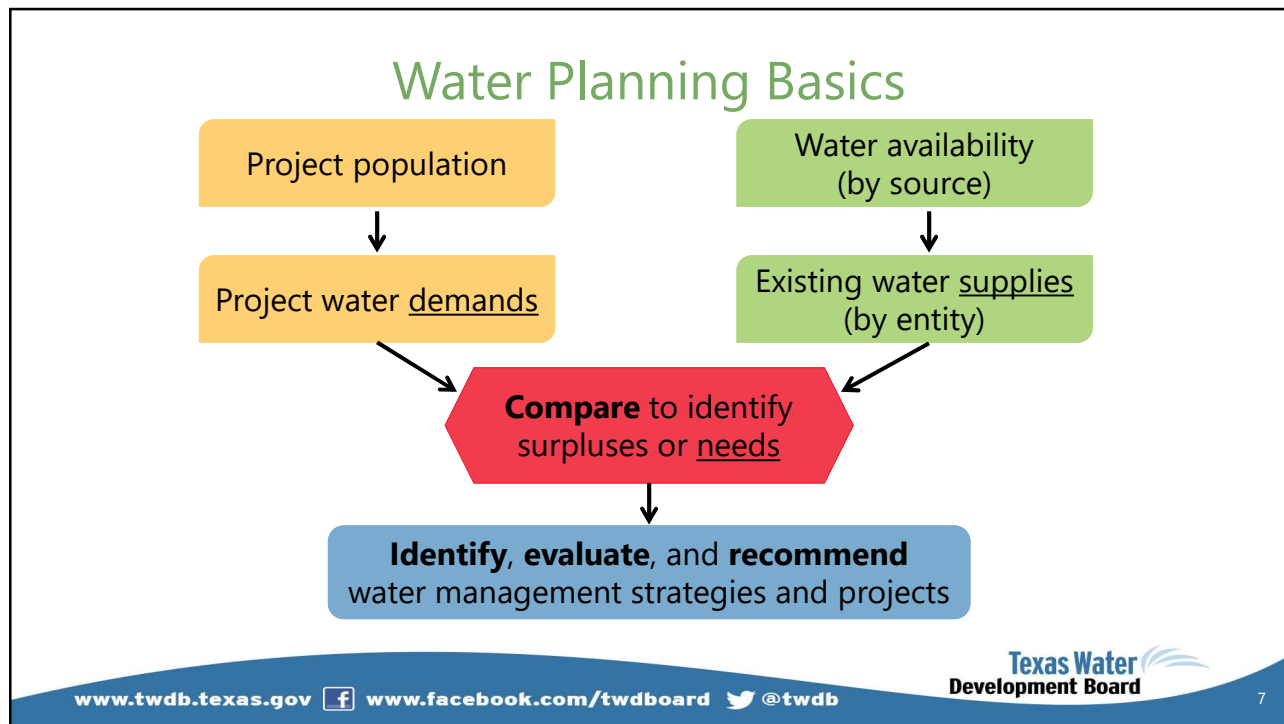
- Meet **drought of record** water needs
- 50-year planning horizon
- 5-year planning cycle
- 6 categories of water use: municipal, manufacturing, mining, irrigation, livestock, and steam-electric power
- Geographic breakdown of water user group information by county, river basin, and region

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WUGs in the 2016 Regional Water Plans

Demand Category	Number of WUGs
Municipal WUGs	
Cities & Utilities	1,364
County-Other	254
Non-municipal WUGs	
Manufacturing	183
Mining	228
Steam-Electric Power	85
Irrigation	241
Livestock	254
Total number of WUGs	2,609


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Agenda Item 9b
Progress To Date

- i. Draft Livestock, Manufacturing and Steam Electric Projections
- ii. Municipal WUG list, GPCD, historical population and water use data



REGION K
THE LOWER COLORADO REGIONAL WATER PLANNING GROUP

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Agenda Item 9b-i

Draft Livestock, Manufacturing, and Steam Electric Demand Projections

- TWDB released draft data Jan 2022
- Requests for Revisions due **July 2023**
- Review of methodology and Region K data
 - April RWPG meeting by Stephanie Moore
 - At May meeting of the Population and Demand Committee
 - Today's RWPG meeting by Katie Dahlberg of TWDB



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Agenda Item 9b-ii

Draft Municipal WUG list, GPCD, historical population and water use data



- TWDB March 2022 Data Release
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Agenda Item 9b-ii

Review TWDB data release and related deadlines



• What is a municipal Water User Group (WUG)?

<p>Automatic</p> <ul style="list-style-type: none"> • Retail public utility providing over 100 ac-ft/yr • Owned by political subdivision
<p>Private, State, or Federal</p> <ul style="list-style-type: none"> • Provides over 100 ac-ft/yr (For privately owned utilities, this is average usage across ALL systems in the State) • Requested by the RWPG or the entity
<p>Collective Reporting Unit</p> <ul style="list-style-type: none"> • Aggregations of related systems like Regional Water Authorities • Requested by the RWPG or the entity
<p>County-Other</p> <ul style="list-style-type: none"> • Everyone else

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Agenda Item 9b-ii

Review TWDB data release and related deadlines



• Potential WUGs for inclusion in 2026 RWP:

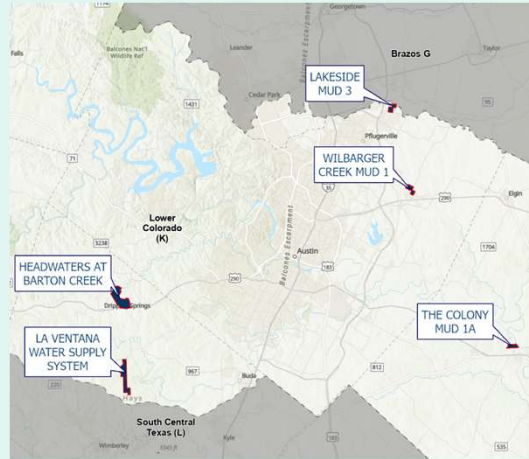
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Agenda Item 9b-ii

Review TWDB data release and related deadlines

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 - North of Manor



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Agenda Item 9c

Upcoming Efforts

- i. Draft Mining and Irrigation demand projections
 - Coming August 2022
 - Requested revisions due July 2023
- ii. Draft Municipal demand projections
 - Coming February 2023
 - Requested revisions due August 2023



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Supplemental Information



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3. General Guidelines for Development of the 2026 Regional Water Plans at https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/projectdocs/2026RWP_Exc_Initialtasks.pdf

11. Financial Report

The Lower Colorado River Water Planning Group (Region K)

July 27, 2022

Administrative Expenses for Region K Grant Fund approval:

Task 10 – Cycle 6 - Admin Expense Budget	\$6,000.00
Prior approved expenses (1/26/22)	\$4,658.78
1/18/2022 LCRA – Bay City Award Apparel Three Region K retirement plaques	\$257.70
2/15/2022 LCRA – Squarespace Inc. Region K web page	\$233.82
3/29/2022 LCRA – EIG Bluehost.com Three year – Doman name and email hosting For Region K website	\$453.86
	<hr/>
Task 10 – Cycle 6 - Admin Expense Total Remaining	<u>\$395.84</u>
for future public notices/postage/website	

The Lower Colorado River Water Planning Group (Region K)

July 27, 2022

Members Fund Balance (June 30, 2022) \$2,730.32