

NOTICE OF OPEN MEETING

REGIONAL WATER PLANNING GROUP-NETRWPG

Wednesday, April 13, 2022 – 10:00 A.M.

**Region 8 Education Service Center
4845 US 271 N
Pittsburg, TX 75686**

In compliance with the Texas Open Meetings Act, Chapter 551, of the Texas Government Code, the Regional Water Planning Group D issues this public notice. On April 13, 2022, at 10:00 A.M., the North East Texas Regional Water Planning Group (NETRWPG) will meet in-person. The meeting will be held the Region 8 Education Service Center, 4845 US 271 N, Pittsburg, TX 75686. The NETRWPG will consider and act on the following items:

1. Recognitions. Roll call.
2. Public Comment/participation.
3. Review and approval of minutes for November 10, 2021 meeting.
4. Reports from liaisons: TWDB Project Manager – TWDB Planner; GMA #8 & #11; Region C & I.
5. Election of Officers for Regional Water Planning Group – D, pursuant to Article VIII, Section 2 of the NETRWPG Bylaws, and Committee Appointments for the Executive Committee (Officers and Two Members At-Large) and Liaisons to regional water planning groups and groundwater management areas.
6. Discussion and Action as appropriate: Consider appointment of successor to the board member position held by Bruce Bradley. Appointment will be for the remainder of the unexpired term.
7. Discussion and Action as appropriate: Review, discuss, and consider taking action on changes to the Region D bylaws.
8. Discussion and action as Appropriate: Authorize Riverbend Water Resources District 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.
9. Presentation by Katie Dahlberg, TWDB Manager for Projections & Socioeconomic Analysis, on the water demand projections methodologies and the released demand projections for livestock, manufacturing, and steam-electric.
10. Report of Region D consultants. This agenda item includes any update on livestock, manufacturing, and steam-electric power generation projections released for the RWPG's review, and timelines for development and review of remaining water use projections.
11. Financial report by Administrator.
12. Further public comment/participation.
13. Adjourn.

Additional information may be obtained from the Administrative Agency for NETRWPG: Riverbend Water Resources District, 228 Texas Avenue, Suite A, New Boston, Texas 75570; Office Telephone: (903) 831-0091; Office Fax: (903) 831-0096; E-mail: kyledooley@rwr.org; Website: <https://rwr.org/region-d/>; Attn: Kyle Dooley, P.E., Executive Director

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 3
November 10, 2021
Meeting Minutes**

**Minutes of the North East Texas Regional Water Planning Group
November 10, 2021 – 10:00 A.M.**

The North East Texas Regional Water Planning Group (NETRWPG) – Region D met in an open meeting on Wednesday, November 10, 2021, at 10:00 A.M. The meeting was held at the Region 8 Education Service Center, 4845 US 271 N, Pittsburg, TX 75686. Notice of the meeting was legally posted.

Jim Thompson called the meeting to order at 10:00 A.M. and welcomed everyone. Introductions were made and a quorum was present. Eighteen members of the planning group were present in person or represented by a designated alternate.

The following voting members were present:

Russell Acker	Brandon Belcher	John Brooks	Joe Bumgarner
Donnie Duffee	Andy Endsley	Nicolas Fierro	Richard Garza
Cindy Gwinn	Billy Henson	Richard LeTourneau	Janet McCoy
Fred Milton	Ned Muse	Sharron Nabors	Bob Tardiff
Jim Thompson			

The following alternates were present:

Alton Bradley

The following voting members were absent:

Allen Beeler	Bruce Bradley	Joe Coats	Conrad King
Lloyd Parker	Harlton Taylor		

The public was provided an opportunity for comment prior to any action being taken by the planning group. Please see the attached Public Comment forms.

Ned Muse made a motion to approve the minutes from the August 4, 2021 meeting. Sharron Nabors seconded the motion. Motion carried, all voting aye.

Elizabeth McCoy with Texas Water Development Board (TWDB) provided an update on TWDB. During the Summer of 2021, TWDB solicited input from all of the regional water planning stakeholders on the state water planning guidance principles and the regional water planning rule topics. They are developing some rulemaking materials to address the input received. A rule proposal will be presented to their Board by the end of 2021. If posting is approved, there will be a thirty-day public comment period. Updates will be made as that timeline develops. TWDB is contracting with the University of Texas Bureau of Economic Geology to assess the mining water use across the state and to update a study completed in 2011 that assessed the mining demand projections. The findings of this study will be included in the 2026 Regional Water Plan. The final report is due in June of 2022. For more information, please visit the TWDB website and navigate to 6th planning cycle page. There is a new webpage for the 6th planning cycle. It can be found here: <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/index.asp> This page will be updated throughout the cycle with important documents, the working schedule, task

organization, as well as contract and administrative documents. There is a new email address for the broadcast communications for the planning group. It is regionalwaterplanning@twdb.texas.gov.

Sharron Nabors stated Region C held a meeting November 1, 2021. They had several public comments on this current planning cycle. Work on Bois d'Arc is almost complete and they're testing the water. Lake Ralph Hall is having the physical work done and hope for completion in 2023.

John McFarland stated that Region I met August 18, 2021 and plans for another meeting in February 2022. An update for GMA #11 is that they have submitted a summary plan for an update to the Carrizo Wilcox Aquifer and it has been accepted by TWDB.

Jim Thompson, Chair, asked for a motion to accept the resignation of voting member Bruce Bradley and an appointment of a successor for the remainder of Mr. Bradley's unexpired term. Kyle Dooley provided that item to be considered is to accept the resignation and to post a notice opening the position for nominations. This position will be opened within 45 days of the acceptance of the resignation and have a deadline for nominations 30-45 days from when that notice is posted. If this item is approved, notice will be posted within the required time frame, nominations will be brought back to the Executive Committee for discussion and a recommendation presented to the full board for them to vote on. Fred Milton made a motion to the resignation. Russell Acker seconded the motion. Motion carried, all voting aye.

Jim Thompson, Chair, asked for a motion to appoint a board member to the At Large position on the Executive Committee vacated by Bob Staton when his term limit was reached in August. Sharron Nabors nominated John Brooks to fill this role. Fred Milton seconded the motion to appoint Mr. Brooks to this open position. Motion carried, all voting aye.

Jim Thompson, Chair, opened discussions pertaining to the potential process for conducting interregional coordination regarding water management strategies during development of the 2026 Regional Water Plan. Mr. Thompson stated that he took the liberty to draft a letter to Region C and TWDB for the Board to review regarding the Board's position on conflict between the IPPs. The letter is an attempt to speed up the process of communicating and meeting with other regions regarding this planning cycle. Sharron Nabors made a motion to accept and send the letter as it is written. Cindy Gwinn seconded the motion. The vote resulted in 17 ayes and 1 nay.

Jim Thompson, Chair, opened discussions regarding the Interregional Planning Council nominations. Mr. Thompson explained the purpose of this planning council. TWDB sent a letter requesting that one board member serve on the Interregional Planning Council and there will also need to be an alternate named. Ned Muse made a motion to nominate Jim Thompson as the member to serve on this Council. Richard LeTourneau seconded the motion. Motion carried, all voting aye. Another motion was made by John Brooks to nominate Fred Milton as the alternate to server on the Council. Billy Henson seconded the motion. Motion carried, all voting aye.

Jim Thompson, Chair, opened discussion regarding changes to the Region D Bylaws. Kyle Dooley provided an explanation of each change to the Bylaws. Most changes were updates to chapters and subchapters of the administrative code where necessary, standardization of language, and correcting typographical errors. The current board member term limit of two consecutive terms was discussed and the discussion led to a recommendation to allow a term limit of three consecutive terms for board members. Other changes included allowing for notices to be posted on NETxRWPG or political subdivision's internet websites. Some sections were removed entirely due to their reference to other sections that were changed. The rule that only one alternate per board member was allowed was also altered to state that multiple alternates can be named provided that notice is given prior to a meeting. A motion was made by Fred Milton and seconded by Sharron Nabors to direct Kyle Dooley to make all updates as suggested, accept the changes to the Bylaws as discussed, and make a final approval at the next meeting. Motion carried, all voting aye.

Jim Thompson, Chair, asked Kyle Dooley to provide information on the process of adding a new Discretionary, or non-voting, member according to the Bylaws. If at any point in the future the Board desires to add a non-voting member, they will need to refer to Article VI. Section 2. Ultimately an entity must be added for that Discretionary member to be added to the board. No further discussion. No action taken.

Tony Smith, Carollo Engineers, provided that they are attending webinars and meetings the TWDB is making available. As TWDB starts releasing data on our region related to per capita usage and some historical water usage, they will review that data and bring it to the Board for presentation. No action taken.

Kyle Dooley provided a financial update in that we have not yet received invoices from Carollo but until work can be performed, we are in a waiting period. Discussion was held regarding the next meeting. It should be in early January 2022. Kyle Dooley will send a reminder out once a date is selected.

The public was provided an opportunity for comment prior to any action being taken by the planning group. Please see attached Public Comment forms.

With no further business to discuss, Jim Thompson adjourned the meeting at 11:49 a.m.

Secretary

Date

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 4
Reports**

TWDB Update: Region D Regional Water Planning Group Meeting

April 13, 2022

Ron Ellis

Ron.Ellis@TWDB.Texas.gov



RWP Rule Updates

- The TWDB developed rulemaking materials to address preliminary stakeholder input on the state water planning guidance principles and regional water planning rule topics.
- The TWDB Board approved rulemaking proposal on December 16, 2021
- The proposal was published in the Texas Register on December 31, 2021, and there was a public comment period through January 31, 2022
- The final rule package was adopted by the TWDB Board on April 11, 2022.

Interregional Planning Council

- The TWDB is soliciting nominations for the 2nd Interregional Planning Council.
- Each RWPG is requested to take action and submit at least one nomination (and alternate for each nomination) to the TWDB by April 22, 2022.
- We anticipate TWDB Board appointment of the Council to occur in July of 2022.

Mining Water Use Study

- TWDB is contracting with UT Bureau of Economic Geology to assess mining water use and update mining demand projections for 2026 RWPs.
- Draft technical report and data posted on website:
<https://www.twdb.texas.gov/waterplanning/data/projections/MiningStudy/index.asp>
- Final technical report and data dashboard - June 2022

RWP Contract Amendments

- Upcoming contract amendments:
 - Anticipated Summer 2022
 - Contract amendments will include anticipated total project cost, full scope of work, and updated contract guidance documents (Exhibits C and D)

6th Round Demand Projections

- Draft projections and supporting materials released 1/20 for livestock, manufacturing, and steam-electric power water demands. Data available online, along with interactive dashboards:
<https://www.twdb.texas.gov/waterplanning/data/projections/2027/projections.asp>
- Anticipated release schedule for remaining projections data:
 - March 2022: released draft Water User Group list + historical population, net use, and gallons per capita daily
 - August 2022: release draft irrigation and mining water demand projections
 - February 2023: release draft population projections, plumbing code savings and municipal demand projections

6th Round Demand Projections

- Projections related deadlines:
 - July 2022 – Deadline for RWPGs to request changes to historical data for municipal Water User Groups.
 - July 2023 – Deadline for RWPGs to request changes to draft non-municipal demand projections.
 - August 2023 – Deadline for RWPGs to request changes to draft population and municipal demand projections.

6th Cycle of Regional Water Planning Web Page

- 6th Cycle of RWP landing page:
<http://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/index.asp>
- Page includes planning documents such as the 6th Cycle plan timeline, BMP Guide, rules pamphlet, contract docs, planning newsletters, and Chairs' Conference Call notes
- RegionalWaterPlanning@twdb.Texas.gov is now being used for broadcast communications to RWPGs regarding regional water planning

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 5
Election of NETRWPG Officers**

Administrative Summary

As per the bylaws, the annual election of officers will be held at the first regular meeting after January 1, 2022. Notice was mailed to the members in February.

NORTHEAST TEXAS REGIONAL WATER PLANNING GROUP
NOTICE OF ELECTION OF OFFICERS
First Regular Meeting after January 1st, 2022

Notice is hereby given to the members of the Northeast Texas Regional Water Planning Group in accordance with the By-Laws of the Group that the annual election of officers will be held during the first regular meeting after January 1st, 2022.

The meeting will be held on April 13, 2022, at the Region 8 Education Service Center at 4845 US 271, Pittsburg, TX, 75686. Nominations will be made from the floor by voting members of the Group. Agreement of two-thirds of the voting members present is required for election of each officer.

Offices to be filled are:

1. Chair
2. Vice-Chair
3. Secretary/Treasurer

It will also be necessary to elect two (2) at-large members of the Executive Committee and to select designated members to each adjacent regional water planning group to serve as a liaison and liaisons to each Groundwater Management Area within the Northeast Texas Regional Water Planning Group Area.

Rolin McPhee
Secretary/Treasurer

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 6
Appointment of Successor to the
unexpired term of Voting Member
Position**

Administrative Summary

At the previous meeting, the board decided to accept the resignation of Bruce Bradley from the board and put out a notice accepting nominations for that position. Staff received one nomination from Judge LaFleur and the Marion County Commissioners Court. They nominated George Otstott. This information was forwarded to the Executive Committee for consideration to help with any possible recommendation from the Committee to the full board.

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 7
Consider taking action on changes to the
Region D bylaws**

Administrative Summary

This item pertains to reviewing, discussing, and possibly taking action on proposed changes to the current bylaws for the Region D WPG. At the last board meeting, there was in-depth board discussion about the proposed changes. After discussion, a motion was made for staff to make all updates to the bylaws as suggested during the board discussion and bring a final clean copy of the bylaws back at this meeting for consideration of approval.

North East Texas Regional Water Planning Group Bylaws 04/20/98

Prepared for the
North East Texas Regional Water Planning Group

by the
Ark-Tex Council of Local Governments

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ARTICLE I. NAMES

Section 1. Organization

The official name of this organization shall be the "North East Texas Regional Water Planning Group" (hereinafter "NETxRWPG").

Section 2. Regional Water Planning Area

The official name of the regional water planning area designated as Region Water Development Area, by the Texas Water Development Board (hereinafter TWDB) in accordance with 31 Texas Administrative Code (hereinafter TAC) Chapter 357 on February 19, 1998, shall be the North East Texas Regional Water Planning Area, (hereinafter NETxRWPA).

ARTICLE II. ESTABLISHMENT AND PURPOSE

The NETxRWPG was established by appointment of an initial coordinating body by the TWDB on February 19, 1998, and any subsequent additional appointments by the initial coordinating body. The purpose of the NETxRWPG shall be to provide comprehensive regional water planning and to carry out the related responsibilities placed on regional water planning groups by state law, including Texas Water Code Chapter 16 and TWDB rules, including 31 TAC Chapters 355, 357 and 358, in and for the NETxRWPA.

ARTICLE III. PRINCIPAL ADMINISTRATIVE OFFICE

The principal administrative office of the NETxRWPG shall be the principal business offices of the political subdivision that is serving as the NETxRWPG's administrator. The administrative officer of the NETxRWPG for purposes of the Texas Open Records Act shall be the executive administrator of the political subdivision that is serving as the NETxRWPG's administrator. The Chair of the NETxRWPG shall insure that the mailing_address and physical address of the principal office and administrative officer are provided to all members of the NETxRWPG and the Executive Administrator of the TWDB.

ARTICLE IV. RESPONSIBILITIES

The NETxRWPG shall have the responsibility for performing the functions defined in Texas Water Code, Chapter 16 and in 31 TAC Chapters 355, 357, and 358 related to regional water planning groups for the NETxRWPA. Foremost among those responsibilities shall be the development of a regional water plan for the NETxRWPA that identifies both short and long-term water supply needs and recommends water management strategies for addressing them.

ARTICLE V. VOTING MEMBERSHIP

Section 1. Composition

The initial voting members of the NETxRWPG shall include the initial coordinating body appointed by the TWDB on February 19, 1998, plus the additional voting members appointed by the initial coordinating body to ensure adequate representation of the interests comprising the NETxRWPA stated in Texas Water Code 16.053(c), if present, and other interests determined by the NETxRWPG. Thereafter, the voting membership of the NETxRWPG shall include persons added or removed as provided under this Article and any 31 TAC §357.11(e)(4) member selected for voting membership under Article VI.

Section 2. Terms of Office

All terms of office shall be three years. All persons shall be eligible to serve a maximum of three consecutive terms as a voting member of the NETxRWPG, provided, however, if a member is voted on the board to complete an unexpired term of a resigning board member, that member will be entitled to serve the unexpired term plus a maximum of three consecutive terms. Outgoing members shall be given the opportunity to fully participate in the selection process for their successors, meaning they can nominate and vote on potential successors, and shall serve until their successors take office.

Section 3. Conditions of Membership

In order to be eligible for voting membership on the NETxRWPG, a person must represent the interest for which a member is sought, be willing to participate in the regional water planning process, and abide by these bylaws.

Section 4. Selection of Members

No later than ninety calendar days prior to the expiration of a voting member's term, or within forty-five calendar days of the removal of a voting member, the NETxRWPG may post public notice in a newspaper of general circulation in each county located in whole or in part in the NETxRWPA or post public notice on the NETxRWPG's or political subdivision's Internet website soliciting nominations for a successor, identifying the particular interest for which nominations are sought, stating the conditions of membership, delineating the method for submitting nominations, and establishing a deadline for submission of nominations between thirty and forty-five calendar days from the date that public notice was posted. Members of the NETxRWPG may also submit nominations in the manner prescribed in the public notice.

The Executive Committee shall receive and process the nominations and, no sooner than ten calendar days after the deadline for submitting nominations, shall recommend a nominee to the voting membership as a whole, giving strong consideration to a consensus nominee from those individuals and entities that collectively represent that interest. The Executive Committee shall not be bound by the nominations received and may consider any person who meets the conditions of membership as a nominee. The voting membership as a whole shall not be bound by the recommendation of the Executive Committee and may consider any person who meets the conditions of membership as a nominee.

The voting members shall make a decision for a successor by an affirmative vote of at least two-thirds of the voting members. An affirmative vote of two-thirds of the total voting membership of the NETxRWPG shall be required to appoint a nominee as a new voting member. If voting fails to select a new voting member, the voting members shall consider other nominations until a new member can be selected by an affirmative vote of two-thirds of the voting membership.

In addition to selecting new voting members to fill vacancies caused by removal or the expiration of a term, the voting members may add members to ensure adequate representation of the interests comprising the NETxRWPA. If such a new member is added, the existing voting members shall determine by not less than agreement of two-thirds of the voting membership, the exact applicability of the membership term provisions and restrictions to the new member at the time of the

new member's selection.

In both the consideration of nominees and the selection of new voting members, the Executive Committee and other voting members shall strive to achieve geographic, ethnic, and gender diversity.

Outgoing voting members shall be given the opportunity to fully participate in the selection process for their successors and shall serve until their successors take office. However, no member shall participate in a vote in which he or she is a nominee.

Section 5. Attendance

All members shall make a good faith effort to attend all NETxRWPG meetings and hearings. Records of attendance shall be kept by the Secretary at all NETxRWPG meetings and hearings and presented as part of the minutes. Voting members of the NETxRWPG that have recorded absences from three consecutive meetings and/or hearings, or at least one-half of the sum of all meetings and hearings in the preceding twelve months, shall be considered to have engaged in excessive absenteeism and shall be subject to removal from membership under Section 7 of this Article. The Chair shall excuse an absence if it is made known to the Chair prior to the beginning of the meeting or hearing that the absence is related to one of the following with supporting documentation made available to the Chair: personal illness, family or urgent business emergency, or jury or military duty. An excused absence will not be recorded as an absence. Representation by a designated alternate does not excuse a member's absence.

Section 6. Code of Conduct

Members and designated alternates of the NETxRWPG shall ethically conduct the business of the NETxRWPG and shall avoid any form or appearance of a conflict of interest, real or apparent, by observing the following:

- (a) No member or designated alternate of the NETxRWPG shall:
 - (1) Solicit or accept gratuities, favors, or anything of monetary value from suppliers or potential suppliers of services, materials, or equipment, including subcontractors under recipient contracts; or

(2) Participate in the selection, award, or administration of a procurement where the member or designated alternate has a financial or other substantive interest in the organization being considered for award. Such conflict may be due to any of the following having a financial or familial relationship with the organization:

- i) the member or designated alternate;
- ii) the members or designated alternates family;
- iii) the members or designated alternate business partner(s); or
- iv) a person or organization that employs, or is about to employ, any of the persons listed in (i)-(iii), above.

(3) Participate in any deliberation, decision, or vote that would constitute a conflict of interest under federal, state, or local law.

(b) Potential conflicts of interest shall be clearly stated by the voting member or designated alternate prior to any deliberation or action on an agenda item with which the voting member or designated alternate may be in conflict. Where the potential conflict is restricted to a divisible portion of an agenda item, the Chair may divide the agenda item into parts, at the Chair discretion, for deliberation and voting purposes. An abstention from participation in deliberations, decisions, or voting and the reasons therefor shall be noted in the minutes.

Section 7. Removal of Voting Members

(a) Grounds for Removal of Voting Members. The following shall constitute grounds for removal of a voting member:

- (1) engaging in excessive absenteeism as defined under Section 5 of this Article;
- (2) death;
- (3) resignation;
- (4) failure to abide by the code of conduct provisions set forth under Section 6 of this Article;
- (5) appointment of a successor by the voting members upon expiration of the member term;
- (6) change in status so that the member no longer represents the interest he or she was selected to represent;
- (7) falsifying documents;
- (8) any other serious violation of these bylaws as may be determined by the voting members; or
- (9) the voting members designated alternate engages in any acts described in subdivisions (4), (7), or (8) of this subsection.

NETRWPG Minutes for June 17, 1998

Page Three

The selection continued and voting was made on the two teams with the most votes.

Bucher, Willis & Ratliff received 12 votes, and Alan Plummer received 9 votes during this selection process. Bucher, Willis & Ratliff received a majority of the Group.

Motion was made by Ruth Culver, second by Terry Winn to select Bucher, Willis & Ratliff to perform the scope of work for Region D. Motion carried unanimously.

Mr. Ray Flemons, Sr. Vice President made a brief statement and stated his appreciation for being selected to perform the scope of work.

Pursuant to Agenda Item No. 3, motion was made to amend Article V, Section 1. to provide that there will be no more than twenty-three (23) voting members on the full Group. By consensus motion, it was recognized that Ralph Rogers had resigned and that his resignation has been accepted. Motion was made to amend Article VI, Section 1.(b) to provide that within 45 days of adoption of the Bylaws, the NETRWPG shall post notice to solicit nominations for persons to serve as 31 TAC Section 357.4(g)(4) members. All motions made pursuant to Agenda Item No. 3 passed unanimously.

Motion to appoint Mendy Rabicoff as Liaison to Region I was made by David Parsons, second by Terry Winn. Motion carried unanimously.

Motion to appoint Ed Withers as Liaison to Region C was made by Mike Huddleston, second by Bill Rice. Motion carried unanimously.

Motion to appoint the following non-voting members who have headquarters outside Region D but who have at least 1,000 acre feet of water rights inside Region D:

Sam Collins — Sabine River Authority
Robert Mansell — North Texas Municipal Water District
W. David Ryburn — City of Irving
Larry N. Patterson — City of Dallas
Winston Holley - SWEPCO

Motion was made by Sue Ann Harting, second by John Bradley. Motion carried unanimously.

Motion was made by Gary Jackson, second by Vernon Rowe, to appoint James A. Withaeger, as a non-voting member representing U. S. Army Corps of Engineers, a Federal Agency.

(b) Process for Removing Voting Members. Voting members may be removed at any time for any of the grounds for removal of voting members set forth in subsection (a) of this section. Any member with knowledge or suspicion that a voting member or designated alternate has engaged in acts or that events have occurred constituting a ground for removal under subsection (a) of this section shall report such information or suspicion to the Chair. The Chair, upon discovering or receiving such information, shall make a written request to that member for an explanation as to why he or she should not be removed from voting membership. The member shall make written response to the Chair within fifteen calendar days from the date of receipt of the Chair request. Within five calendar days of receipt of the members response, the Chair shall forward copies of the response to the voting members. If the Chair continues to suspect that a ground for removal may exist, if the member fails to make a timely response to the Chair request, or if a voting member requests its inclusion on the agenda after reviewing the written response from the accused member, the Chair shall place an item on the next subsequent meeting agenda calling for the removal of the member. At the meeting, the member subject to the possible removal action may present evidence of why he or she should not be removed. The voting members may remove the member by not less than agreement of two-thirds of the voting membership. The member subject to the removal action shall not participate in any way in the removal decision, nor shall his or her membership count as part of the total voting membership for purposes of calculating a two-thirds vote.

ARTICLE VI. NON-VOTING MEMBERSHIP

Section 1. Mandatory Members

(a) The voting members of the NETxRWPG shall add the non-voting members set forth in 31 TAC §357.11(e)(1)-(3) and §357.11(e)(5)-(6) and accept the designees appointed by the entities set forth therein. Such designees shall have no terms of office and shall serve until replaced by the designating entity. However, if the voting members decide by not less than agreement of two-thirds of the voting membership, that a particular designee is hindering the regional water planning efforts of the NETxRWPG, the Chair shall make a written request within ten calendar days to the entity requesting the designation of another person to serve as the entity's designee.

(b) The voting members of the NETxRWPG shall add at least one non-voting member as set forth in 31 TAC §357.11(e)(4). Within thirty calendar days of adoption of these bylaws, or within forty-five calendar days of the removal of a 31 TAC §357.11(e)(4) member, the NETxRWPG may post public notice in a newspaper of general circulation in each county located in whole or in part in the

NETxRWPA or post public notice on the NETxRWPG's or political subdivision's Internet website, soliciting nominations for persons to serve as a 31 TAC §357.11(e)(4) member, stating the conditions of membership, delineating the method for submitting nominations, and establishing a deadline for submission of nominations between thirty and forty-five calendar days from the date that public notice was posted.. Members of the NETxRWPG may also submit nominations in the manner prescribed in the public notice.

The Executive Committee shall receive and process the nominations and, after the deadline for submitting nominations, shall recommend a nominee to the voting membership as a whole, giving strong consideration to a consensus nominee from those individuals and entities that collectively represent the interest as described in 31 TAC §357.11(e)(4). The Executive Committee shall not be bound by the nominations received and may consider any person who meets the conditions of membership as a nominee. The voting membership as a whole shall not be bound by the recommendation of the Executive Committee and may consider any person who meets the conditions of membership as a nominee.

The voting members shall make a decision for a new member or successor by an affirmative vote of at least two-thirds of the voting members. An affirmative vote of two-thirds of the total voting membership of the NETxRWPG shall be required to appoint a nominee as a non-voting 31 TAC §357.11(e)(4) member. If voting fails to select a member, the voting members shall consider other nominations until a 31 TAC §357.11(e)(4) member can be selected by an affirmative vote of two-thirds of the voting membership.

Once selected, a 31 TAC §357.11(e)(4) non-voting member shall have no term of office and shall serve until removed by the voting members by not less than an affirmative vote of two-thirds of the voting membership.

(c) The voting members may at any time, including the time of initial selection of a 31 TAC §357.11(e)(4) member, convert the membership of a 31 TAC §357.11(e)(4) non-voting member into a voting membership by a two-thirds vote of the voting membership. If selected to be a voting member, a 31 TAC §357.11(e)(4) member shall have the rights, duties, terms, conditions, and other privileges and obligations of regular voting members. The voting members, excluding the 31 TAC §357.11(e)(4) member subject to the possible membership conversion, shall determine the exact applicability of the membership term provisions and restrictions to the 31 TAC §357.11(e)(4) member at the time of such conversion by not less than agreement of two-thirds of the voting membership.

(d) The voting members, excluding the 31 TAC §357.11(e)(4) member subject to the possible membership conversion, may at any time convert the membership of a

31 TAC §357.11(e)(4) voting member into a non-voting membership, by not less than an affirmative vote of two-thirds of the voting membership, not including the voting membership of the 31 TAC §357.11(e)(4) member subject to the possible membership conversion.

Section 2. Discretionary Members

The voting members of the NETxRWPG may add or remove as a non-voting member an entity set forth in 31 TAC §357.11(h) by two-thirds vote of the voting membership. If an entity is added, the Chair shall make a written request within ten calendar days to the entity requesting the designation of a person to serve as the entity's designee. Such designees shall have no terms of office and shall serve until replaced by the designating entity or until the entity is removed as a nonvoting member. However, if the voting members determine by a two-thirds vote of the voting membership that a particular designee is hindering the regional water planning efforts of the NETxRWPG and that the entity should remain as a nonvoting member, the Chair shall make a written request within ten calendar days to the entity requesting the designation of another person to serve as the entity's designee.

Section 3. Code of Conduct

All non-voting members shall comply with the code of conduct provisions under Section 6 (Conflict of Interests) of Article V of these bylaws.

ARTICLE VII. DESIGNATED ALTERNATES

Each member shall designate an alternate to represent him/her when he/she is unable to attend a meeting or hearing. Each member must notify the Chair in writing of the name and address of the members designated alternate at least forty-eight hours prior to the first meeting or hearing at which the designated alternate will appear on behalf of the member. If the member fails to provide such notice, the Chair may forbid the participation of the designated alternate at the meeting or hearing.

The designated alternate shall enjoy the same voting privileges, or lack thereof, and shall be bound by the same duties, terms, and conditions as the member they represent, except as otherwise provided in these bylaws. However, a designated alternate for a voting member who serves as an officer shall not be allowed to

serve in the capacity as an officer in the member's absence.

ARTICLE VIII. OFFICERS

Section 1. Officers, Restrictions, and Terms of Office

Voting members of the NETxRWPG shall select from the voting membership a Chair, Vice Chair, and Secretary/Treasurer to serve as officers. Each officer shall serve a term of one calendar year. However, the terms of the initial officers selected under Section 2 of this Article shall expire when the regular officers take office as provided under this Article. Except as provided under Section 4 of this Article, an officer shall serve until his or her successor takes office. Elections shall be held annually, with no restrictions on the number of consecutive terms an individual may serve as an officer other than those that apply because of his or her status as a voting member under these bylaws.

Section 2. Selection

(a) Initial Officers. Within twenty eight days after the adoption of these bylaws, the voting members shall select initial officers. Nominations shall be made from the floor by voting members. The voting members shall select officers from among the nominees by not less than agreement of two-thirds of the voting members present.

(b) Regular Officers. Regular officers shall be selected at the first meeting of each calendar year after the calendar year in which these bylaws were adopted. Written notice of the meeting to select officers shall be mailed or emailed to all members of the NETxRWPG by the current Secretary thirty calendar days prior to the meeting. Nominations shall be made from the floor by voting members. The voting members shall select officers from among the nominees by not less than agreement of two-thirds of the voting members present.

Section 3. Removal of Officers

Any officer may be removed from office for any of the grounds for removal of voting members set forth under Article V of these bylaws, or for repeated failure to carry out the duties of the office, by but not less than agreement of two-thirds of the voting members present. Removal of an officer shall be set as an agenda item

at the next scheduled meeting upon written request signed by five voting members to the Chair or Secretary. The Chair or Secretary receiving the request shall notify the officer in writing that he or she shall be subject to a removal action at the next scheduled meeting. At the meeting, the officer subject to the possible removal action may present evidence of why he or she should not be removed. If the Chair is the subject of the possible removal action, the Vice-Chair shall preside over the meeting during the agenda item concerning the Chairs removal. The officer subject to the removal action shall not participate in any way in the removal decision, nor shall his or her membership count as part of the total membership for purposes of calculating a two-thirds vote. The notice of the meeting shall be posted in accordance with the Open Meetings Act and shall state that the issue of possibly removing the officer will be on the agenda. Any vacancy caused by the removal shall be filled as provided under Section 4 of this Article.

Section 4. Vacancies of Officers

Whenever an officer vacancy exists because of death, resignation, or removal, the vacancy shall be filled within thirty days of the event causing the vacancy. Nominations shall be made from the floor by voting members. The voting members shall select a replacement officer from among the nominees by not less than agreement of two-thirds of the voting members present. The next highest ranking officer shall serve in the vacant position until a successor takes office, unless the office of the Secretary becomes vacant, in which case the Chair shall appoint a willing voting member to serve as Secretary until the successor to the Secretary takes office. The person selected to fill a vacancy for an officer shall serve for the unexpired term of his or her predecessor in office.

Section 5. Duties of Each Officer

(a) Chair. The Chair shall be the executive officer of the NETxRWPG. The Chair will preside at all meetings of the NETxRWPG and perform all duties provided by these bylaws. If the Chair is unable to carry out his/her duties, the Vice Chair shall assume the duties of the Chair.

(b) Vice Chair. The Vice Chair shall assist the Chair in the discharge of his/her duties and, in the absence of the Chair, shall assume the Chairs full responsibilities and duties. In the event the Chair is unable to carry out his/her duties, the Vice Chair shall serve as Chair until the NETxRWPG elects a new Chair under Section 4 of this Article. The Vice-Chair shall perform other duties as assigned by the Chair, or these bylaws.

(c) Secretary/Treasurer. The Secretary/Treasurer shall maintain the minutes and take attendance of the NETxRWPG meetings. The minutes and attendance shall

be kept as part of the NETxRWPG official records. The Secretary/Treasurer shall insure that all notices are properly posted as provided in the bylaws, as required by law, and as required by the Texas Open Meetings Act. The Secretary/Treasurer shall maintain a record of revenues and expenses sufficient to meet state auditor requirements, under the Uniform Grant Administration Management Standards (UGAMS) and perform other duties as assigned by the Chair or these bylaws. If the both the Chair and Vice Chair are unable to carry out the duties of the Chair, the Secretary/Treasurer shall assume the duties of the Chair.

Section 6. Executive Committee

The Executive Committee shall be composed of five NETxRWPG members, including the Chair, Vice Chair, Secretary/Treasurer, and two members-at-large. The two members-at-large shall be selected annually in the same manner and with the same terms as set forth for the selection of officers under this Article. Members-at-large shall be removed and their vacancies filled in the manner prescribed for officers under this Article.

The Executive Committee shall be responsible for carrying out the duties imposed on it in these bylaws. The voting members of the NETxRWPG may delegate any administrative decisions to the Executive Committee unless provided otherwise in these bylaws.

All meetings of the Executive Committee shall comply with the provisions related to meetings generally as set forth in Article IX of these bylaws.

Section 7. Designated Alternates

A designated alternate of a member serving as an officer shall not serve in the member's capacity as an officer in lieu of the member. When an officer is absent or otherwise unable to serve, the next highest ranking officer shall serve for the officer. If no lower ranking officer exists or can serve, then a member designated by the Chair or acting Chair shall serve for the officer.

ARTICLE IX. MEETINGS

Section 1. Open Meetings and Notice

All meetings of the NETxRWPG, its committees and/or sub-groups, shall be posted and open to the public in the manner of a governmental body under the Texas Open Meetings Act and as set forth in TWDB rules. All actions of the NETxRWPG shall be deliberated and undertaken in open meeting, unless otherwise authorized by the Texas Open Meetings Act. The time and place of

meetings shall be set to facilitate, to the greatest extent possible, the participation of the public in the regional water planning process. Copies of all materials presented or discussed shall be made available for public inspection prior to and following any meeting of the NETxRWPG.

Section 2. Regular Meetings

The NETxRWPG shall meet on a regular basis. At the first meeting after the adoption of these bylaws and the first meeting of each calendar year thereafter, the NETxRWPG shall establish and adopt a meeting schedule for the ensuing year. The Secretary shall insure that an advance notice and an agenda for regular meetings will be provided to the full membership of the NETxRWPG at least seven days in advance by first class U.S. Mail, facsimile, or electronic mail. Supporting information and member-requested materials shall be distributed to the full membership at least three days prior to each meeting.

Section 3. Called (Special) Meetings

The Chair or a majority of the voting members of the NETxRWPG may call special meetings of the NETxRWPG. The Secretary shall insure that advance notice and an agenda for the called meeting is provided to the full membership of the NETxRWPG at least seven days in advance by first class U.S. Mail, facsimile, or electronic mail. Supporting materials for the meeting may be forwarded to each member at least three days prior to each meeting.

Section 4. Agenda

The Secretary of the NETxRWPG shall insure that an agenda is prepared and distributed for all meetings, in accordance with Sections 2 and 3 of this Article. Items shall be placed on the agenda by the request of the Chair or by the request of at least three voting members of the NETxRWPG. Consideration for approval of the previous meetings minutes, as applicable, shall always be among the first items on the agenda. Copies of the agenda and all supporting information shall be made available for public inspection prior to and following any meeting of the NETxRWPG.

Section 5. Quorum

A quorum of the NETxRWPG shall be a simple majority of the voting members or their designated alternates excluding vacancies. At minimum, a quorum shall be necessary to conduct any business of the NETxRWPG. No actions requiring a

two-thirds vote of the voting membership shall be taken during a regular business session, unless at least three-fourths of the voting membership is present.

Section 6. Applicability of Robert's Rules of Order

Except as otherwise provided in these bylaws, meetings of the NETxRWPG shall be conducted under the provisions of the most current edition of *Robert's Rules of Order*. However, failure to follow such rules shall not constitute grounds for appeal of an action or a decision of the NETxRWPG.

Section 7. Public Hearings/Meetings Required By Law

The NETxRWPG shall post notice and conduct public hearings and public meetings that are specifically required by statute and/or TWDB rule, including those set forth for preplanning, draft regional water plan presentation, adoption of amendments to the regional water plan, and final regional water plan adoption, in accordance with the requirements of the relevant state law and/or TWDB rules. Notification requirements may be different than those specified in Section 1 of this Article and are specifically delineated in Texas Water Code 16.053 and/or 31 TAC §357.21.

Section 8. Minutes

(a) The Secretary shall insure that minutes of all meetings of the NETxRWPG are prepared. The minutes shall:

- (1) state the subject of each deliberation;
- (2) indicate each vote, order, decision, or other action taken;
- (3) indicate those members in attendance, noting the presence of a quorum, and noting the presence of those members of the public who participate in the course of the meeting;
- (4) represent an accurate summary of the meeting record; and state any other information required by these bylaws to be included in the minutes.

(b) The Secretary shall insure that true copies of the minutes are provided to the full membership as soon as possible following the meeting, but no later than prior to the next regular meeting of the NETxRWPG.

ARTICLE X. MAKING DECISIONS

Section 1. Applicability; No Written Proxies

(a) Unless the method for making a particular decision is set forth in these bylaws, the NETxRWPG, its committees, and subgroups shall make all decisions utilizing the process set forth in Section 2 of this Article.

(b) Written proxies shall not be allowed in any decision-making by the NETxRWPG, its committees, or its subgroups. However, designated alternates shall be allowed to participate in decision making as set forth in these bylaws. Because it is important in achieving agreement for all members to participate actively, keep up-to-date on the progress of the group, and develop a common base of information, members shall in good faith attempt to minimize the number of times they are absent from meetings or are represented by their designated alternates.

Section 2. Decision-Making Process

(a) The NETxRWPG shall make decisions using a voting process based upon a show of hands. Secret written ballots shall not be allowed during an open session.

(b) Failure to Reach Agreement. If after good faith negotiations it appears likely to the Chair that the voting members will be unable to reach full agreement, the Chair shall entertain the following:

a motion and a second to put the issue to a vote to be conclusively decided by an affirmative vote of not less than fifty-one percent of the voting members present.

Section 3. Methods to Resolve Disputes

(a) The Northeast Texas RWPG shall use methods to resolve disputes between regional water planning group members on matters coming before the regional water planning group. The method that will first be used is resolution of the dispute by consensus. If the consensus method fails to resolve the dispute, then the method used to resolve the dispute shall be by vote of the voting members of the Northeast Texas RWPG. Resolution by the voting method shall be by majority vote unless otherwise provided by an applicable section of the Bylaws or applicable law. This section should be construed as satisfying or exceeding any requirement described in 31 TAC Section §357.11(c)(6).

Section 4. Final Adoption of Regional Water Plan; Amendments

The voting members of the NETxRWPG shall finally adopt the regional water plan for the NETxRWPA, and any amendments thereto by not less than agreement of two-thirds of the voting membership.

ARTICLE XI. BOOKS AND RECORDS

Section 1. Required Documents and Retainment

Records of the NETxRWPG, including: a current membership list with addresses, affiliations, and phone numbers, if not unlisted; the current roster of officers; a copy of the written record of designation of the political subdivision(s) as representative(s) of the NETxRWPG; minutes; agendas; notices; contracts, subcontracts, annual financial statements, and any and all financial records and supporting information; bylaws; records of public hearing; correspondence; memoranda; phone logs; committee or subgroup recommendations or findings; draft and final plans; studies; data of any sort; computer records or models; executive summaries; other work products; and any other pertinent information of a public nature shall be kept at the principal office of the NETxRWPG for a period of at least five years.

Section 2. Inspection and Copying

Records of the NETxRWPG shall be available for inspection and copying at the principal place of business of the representative political subdivision (Administrative Entity) during normal business hours. Procedures and fees for copying and inspection shall be the same as those used by the political subdivision housing the principal office of the NETxRWPG for inspection and copying of its own public records.

Section 3. Availability of Reports

All reports, planning documents, and work products resulting from projects funded by the TWDB shall be made available to the TWDB, the Texas Parks and Wildlife Department, and the Texas Natural Resource Conservation Commission or their successor agencies. At least one copy of the approved regional water plan

shall be placed in the county clerk's office for each county and in at least one public library of each county having land within the NETxRWPA, in accordance with state law.

ARTICLE XII. COMMITTEES

Section 1. Establishment

The NETxRWPG may by motion establish committees and subgroups to assist and advise the NETxRWPG in the development of the regional water management plan. The committee or subgroup may be formed to address specific issues assigned by the NETxRWPG and may have a specified term of membership.

Section 2. Membership

Membership in the committees and subgroups shall generally follow the requirements and procedures of Article V of these bylaws; membership of the committees and subgroups should be inclusive, rather than exclusive in nature; the interests identified in the initial coordinating body will be invited to participate, as well as other interests that have been identified. Appointment to committees or subgroups shall be made by not less than agreement of two-thirds of the voting membership. The terms of office for all members of committees and subgroups shall be either upon the expiration of the term, if any, specified by the NETxRWPG in the establishing motion for the committee or subgroup, or upon the expiration of the person's membership in the NETxRWPG.

Section 3. Officers

The Chair, Vice-chair, and Secretary of a committee or subgroup established by the NETxRWPG shall be selected from the duly-elected members of the respective committee or subgroup. The Chair, Vice Chair, and Secretary of the committee or subgroup established by the NETxRWPG shall be elected to their respective offices by a majority affirmative vote of the members of the committee or subgroup. Additional committee or subgroup officers with associated responsibilities may be created as necessary by a majority affirmative vote of the members of the committee or subgroup. The additional officers shall be elected by a majority affirmative vote of the members of the committee or subgroup.

Section 4. Meetings

Requirements and procedures for committee or subgroup meetings shall follow those established in Article IX of these bylaws, including requirements for notice. Committees or subgroups may adopt their own rules of procedure, if authorized by

the NETxRWPG and the rules are not in conflict with state law, TWDB rules, or these bylaws.

Section 5. Books And Records

Requirements and procedures for committee or subgroup books and records shall follow those established for the NETxRWPG in Article XI of these bylaws.

Section 6. Code of Conduct

Members of a committee or subgroup are subject to the requirements of Article V, Section 6 of these bylaws.

ARTICLE XIII. COMPENSATION

Members of the NETxRWPG are not to be compensated for their expenses by the State of Texas. All travel expenses may be documented by the members and submitted to the political subdivision designated by the NETxRWPG to apply to TWDB for funding. The political subdivision contracting with the TWDB for the NETxRWPG shall compile the travel information from the members, which will be counted as an in-kind expense at the state rate that is in effect at the time the travel occurred.

ARTICLE XIV. COST ALLOCATION

The voting members of the NETxRWPG shall develop and approve an equitable method or formula for the allocation of costs associated with the local match for state funding.

ARTICLE XV. CONTRACTUAL SERVICES

The voting members of the NETxRWPG shall make all decisions related to final approval of persons or entities selected by an eligible applicant to provide contractual services for the NETxRWPG, including all services related to preparation, development, or revisions of the regional water plan for the NETxRWPA. However, the voting members may delegate to the Executive Committee the authority to make administrative decisions concerning amendments to TWDB Research and Planning Fund grant contracts for services related to regional water planning, except those decisions concerning amendments related to scopes of work and budgets.

ARTICLE XVI. ADOPTING AND AMENDING THE BYLAWS

These bylaws shall have full force and effect upon approval and adoption by the voting members of the NETxRWPG, acting on behalf of the interests comprising the NETxRWPA, and upon submission to the TWDB in compliance with 31 TAC §357.11. The voting members shall adopt these bylaws and any amendments thereto by not less than agreement of two-thirds of the voting membership.

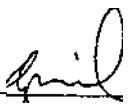
ARTICLE XVII. RESOLUTION ADOPTING BYLAWS

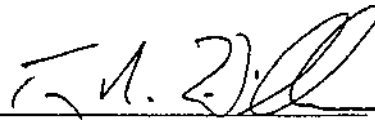
WHEREAS, no bylaws have been adopted governing the conduct of the internal affairs of the NETxRWPG; and

WHEREAS, the set of bylaws presented to this meeting are suitable for the purpose and their adoption is in the best interests of the NETxRWPG; it is, therefore,

RESOLVED, that the members of the NETxRWPG this 20th day of April 1998, approve and adopt the bylaws presented to this meeting of members as the bylaws of the NETxRWPG; and it is

FURTHER RESOLVED, that the bylaws be authenticated as such by the Secretary of the NETxRWPG and placed in its minute book, and that a full and true copy of the bylaws, certified by the Secretary, be kept at the principal office of the NETxRWPG for inspection by members or the public at all reasonable times during business hours.

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Chairman

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 9
Water Demand Projection Methodologies
Presentation**

2026 Regional Water Plans Projections Methodology Overview

Katie Dahlberg
Manager, Projections & Socioeconomic Analysis
Water Supply Planning

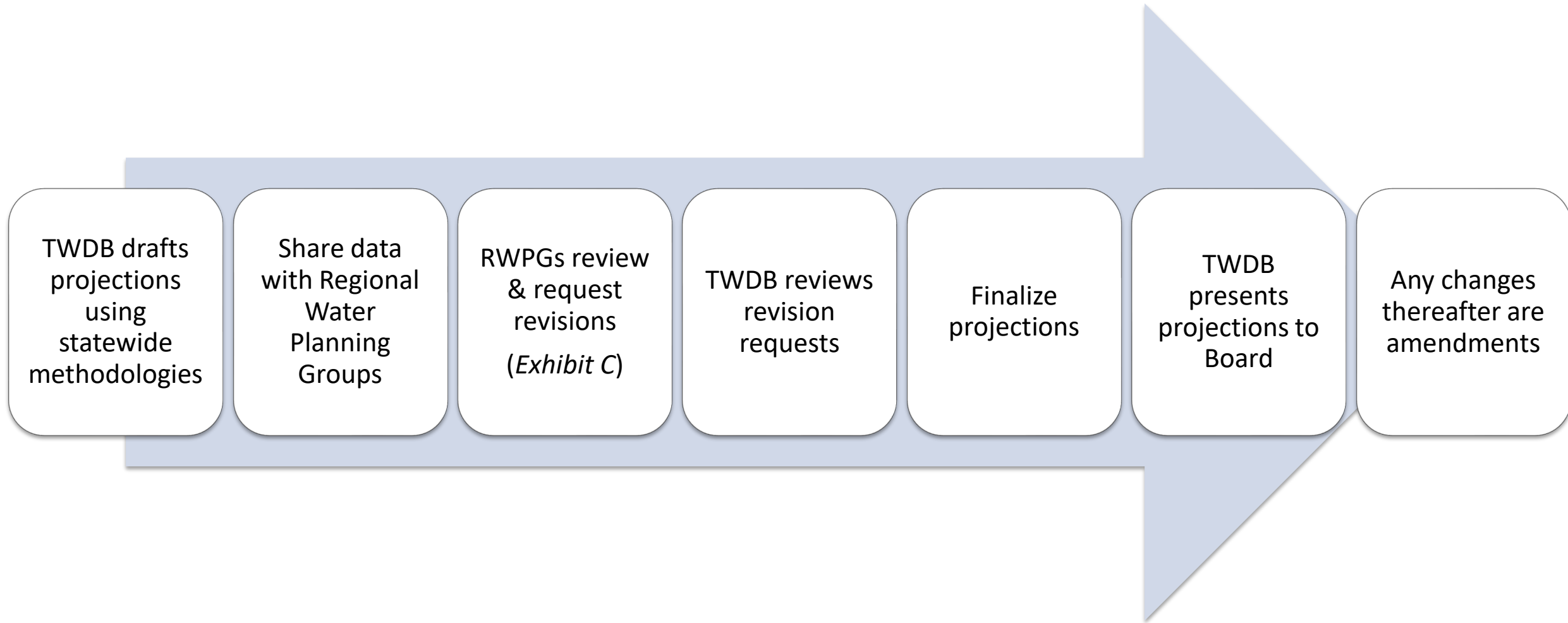
April 13, 2022
North East Texas Region D Planning Group Meeting



Agenda

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

Projections Process



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

Non-Municipal Water Demand Projections Methodologies

Historical: 2015 - 2019

Projections: 2030 - 2080

Irrigation

Same methodology as 2021 RWPs

Baseline = 5-year average (2015-2019)

Water sources: groundwater, surface water, reuse

- Most-recent Modeled Available Groundwater

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

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

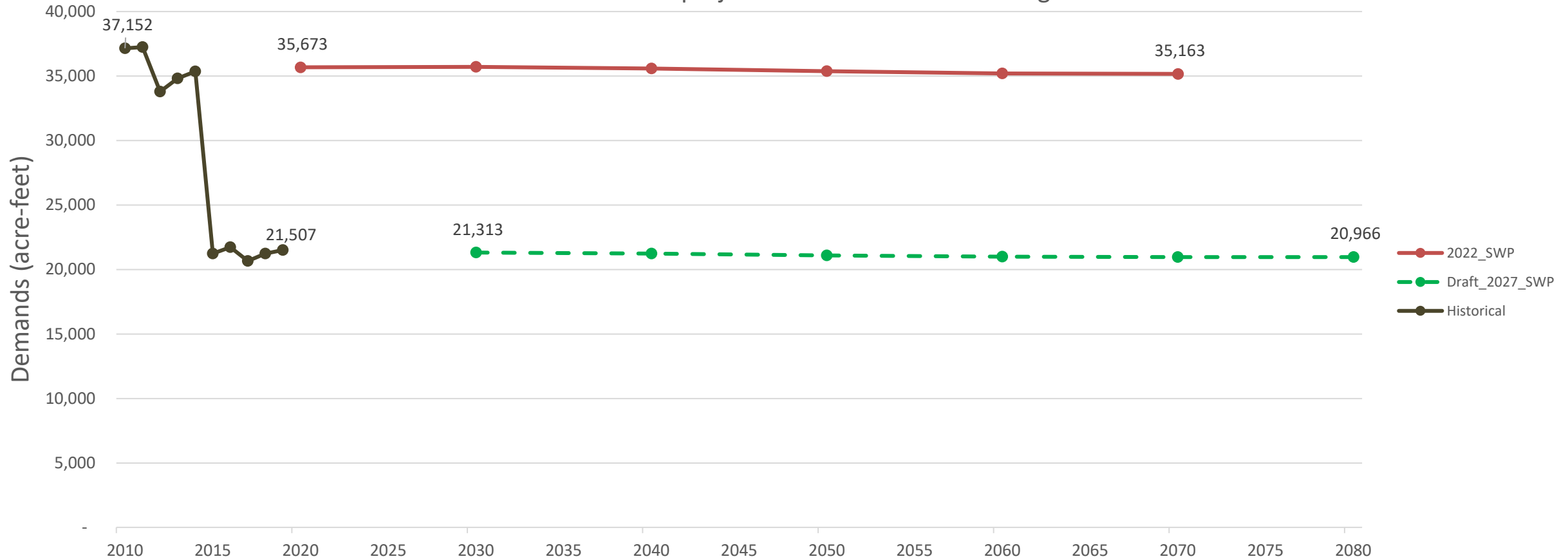
Livestock Water Use Coefficients

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

Livestock Projections:

Compare 2021 RWP to Draft 2026 RWP

Livestock water use and demand projections for all counties in Region D.



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

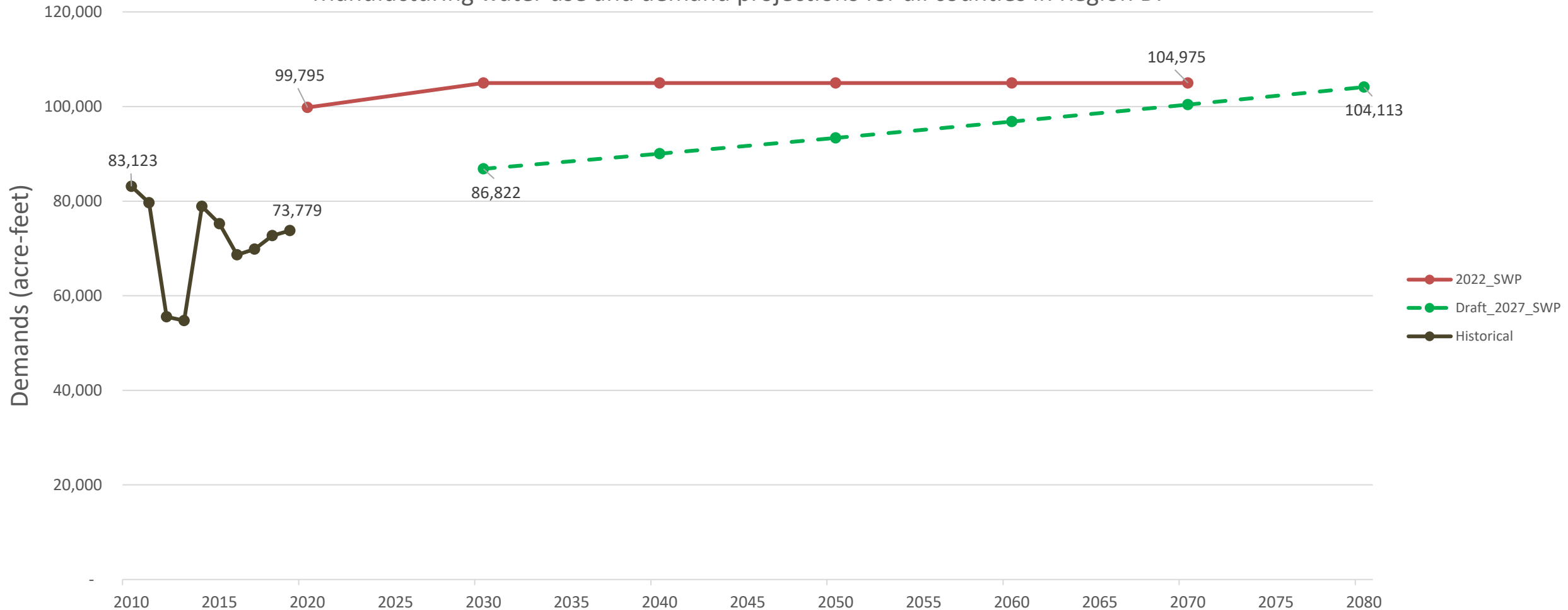
Baseline * 2010-2019 historical water use survey rate of change = 2030

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

Manufacturing Projections:

Compare 2021 RWP to Draft 2026 RWP

Manufacturing water use and demand projections for all counties in Region D.



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>

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

Steam-Electric Power

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

- Consumptive use

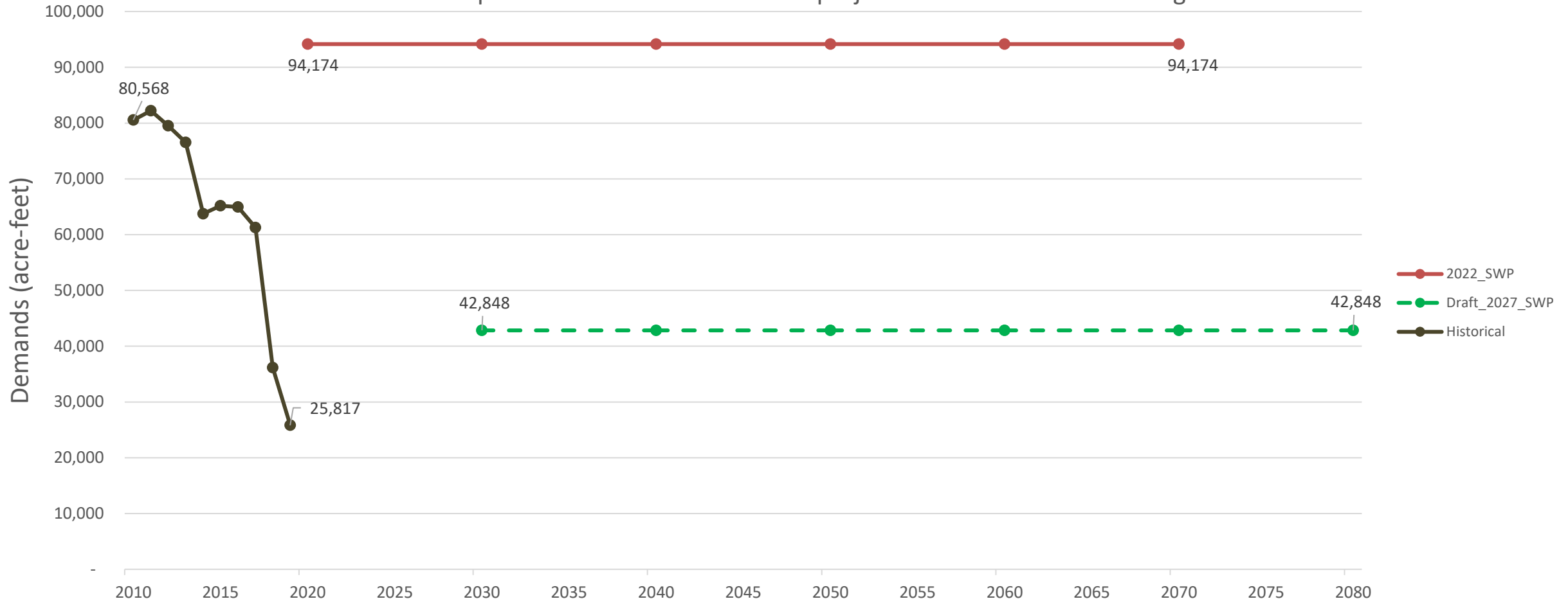
2030 – 2080 held constant

Same methodology as the 2021 RWPs

Draft projections release in January 2022

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

Steam-electric power water use and demand projections for all counties in Region D.



Steam-Electric Power Projections:

Compare 2021 RWP to Draft 2026 RWP - by County

2030 Water Demands (acre-feet)		
County	2021 RWP	Draft 2026 RWP
GREGG	940	362
HARRISON	21,112	19,601
HUNT	373	218
LAMAR	5,511	5,706
MARION	4,257	2,310
MORRIS	50	6
TITUS	61,931	14,645
Region D	94,174	42,848

2026 RWP Draft Projections

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

The screenshot shows the Texas Water Development Board website. The header includes the logo, a search bar, and social media links. The navigation menu is at the top, with 'Water Planning' selected. Below the menu, there are four main sections: STATE WATER PLAN, REGIONAL WATER PLANNING, PLANNING DATA, and WATER USE SURVEY. The 'PLANNING DATA' section has a link for 'Population & Water Demand Projections' highlighted in yellow.

STATE WATER PLAN	REGIONAL WATER PLANNING	PLANNING DATA	WATER USE SURVEY
Interactive State Water Plan	Planning Group Meeting Schedule	Regional Water Planning Database	Online Water Use Survey
2022 State Water Plan	Planning Group Information	Planning Data Dashboard	Printable Water Use Survey
2017 State Water Plan	6th Planning Cycle Information (2026 RWPs)	Population & Water Demand Projections	Historical Water Use Estimates
2012 State Water Plan	2021 Regional Water Plans & Previous Plans	Socio-Economic Impact Analysis	Data Dashboard
2007 State Water Plan	Educational Information	Other Data Resources	Historical Groundwater Pumpage
2002 State Water Plan	Frequently Asked Questions		Service Boundary Editor
1997 State Water Plan			

Municipal Projections Methodology

Historical: 2010 - 2020

Projections: 2030 - 2080

Water User Groups

- Municipal WUGs: utility water use of 100 acre-feet or more
 - 31 TAC § 357.10(43)
- WUGs in the 2021 RWPs 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

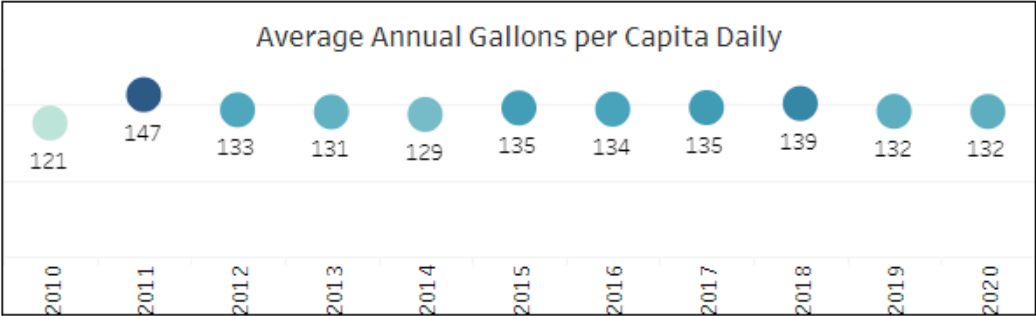
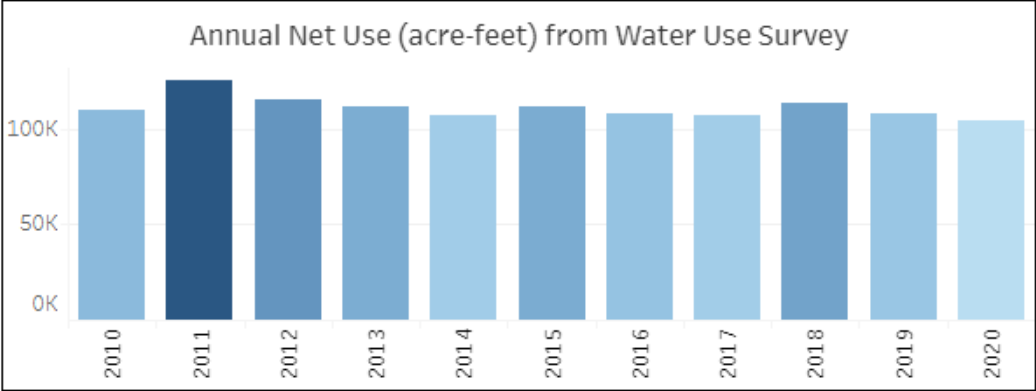
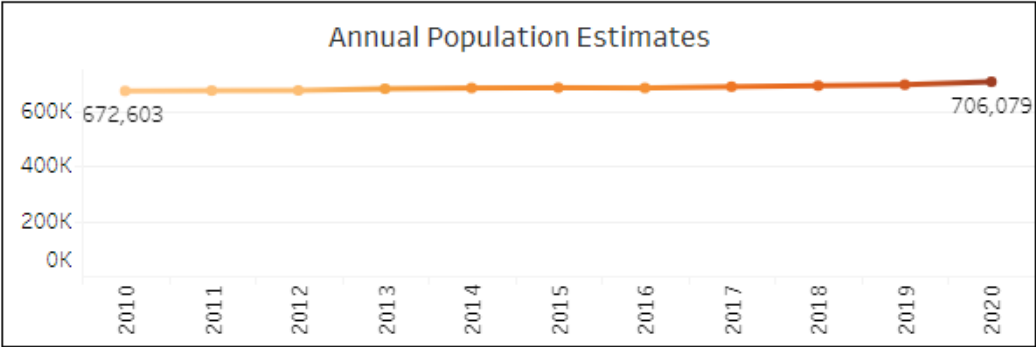
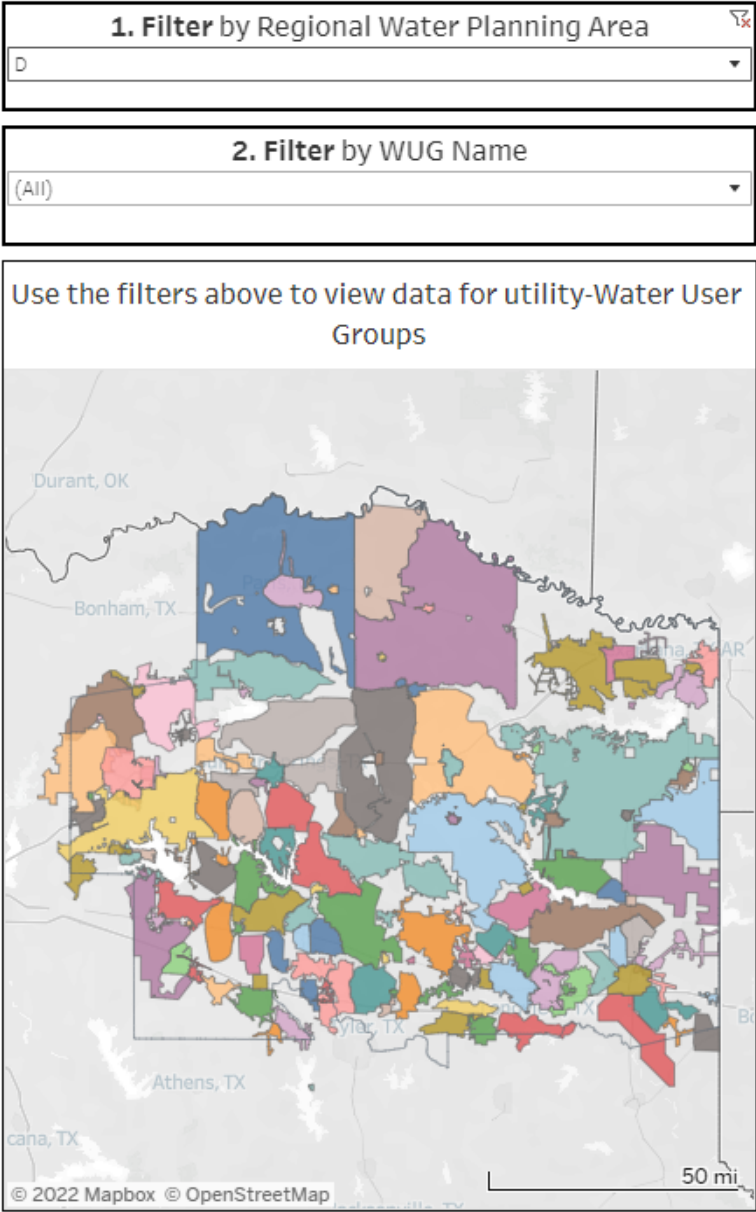
Region D – Municipal WUG Counts

- 2021 RWP: 159 WUGs
- 2026 RWP draft: 164 WUGs
- Including 19 County-Other WUGs



Historical Data for WUG: All, Entity ID: All in Planning Region D

Historical
Utility Data
Online



Population Projections

- Based on Texas Demographic Center's projections for counties in Texas
 - 3 migration scenarios
- 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

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

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

Municipal Demand Projections

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

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			

Questions?

Contact:

Katie Dahlberg

katie.dahlberg@twdb.texas.gov

512-463-2449

Stay connected:



**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 10
Technical Consultant Report**

Region D Water Planning

Non-Municipal Demands (Part 1)
and Path Forward

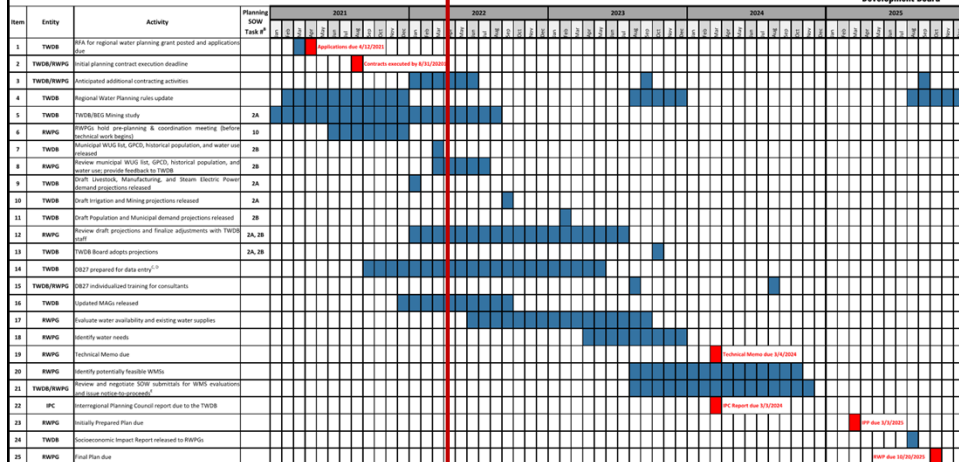


Mount Pleasant, TX April 13, 2022

1

2026 Plan Schedule

Sixth Cycle of Regional Water Planning (2026 Regional Water Plans)
Working Schedule (as of October 2021)¹



¹Notes: ²Estimated timeline based on currently available agency resources and subject to change.
³Tasks included in the initial contract scope of work have task numbers in this initial timeline.
⁴OS27 is the updated, online water planning database for the 2027 State Water Plan.
⁵Anticipated database availability dates are estimates based on currently available agency resources.
⁶Subject to available funding.

2

2026 Planning Budget Progress

Task #	Task	Contract Amount	Expended to Date	% Complete
1	Planning Area Description	\$16,231	\$0	0%
2A	Non-Municipal Water Demand Projections	\$28,414	\$279.00	1%
2B	Population and Municipal Water Demand Projections	\$47,482	\$0	0%
3	Water Supply Analyses	n/a	n/a	0%
4A	Identification of Water Needs	n/a	n/a	0%
4B	Identification of Potentially Feasible WMSs and WMS Projects	n/a	n/a	0%
4C	Prepare and Submit Technical Memorandum	n/a	n/a	0%
5A	Evaluation and Recommendation of WMSs and WMS Projects	n/a	n/a	0%
5B	Water Conservation Recommendations	n/a	n/a	0%
6	Impacts of Regional Water Plan	n/a	n/a	0%
7	Drought Response, Activities & Recommendations	n/a	n/a	0%
8	Recommendations Regarding Unique Stream Segments and/or Reservoir Sites and Legislative & Regional Policy Issues	\$10,648	\$0	0%
9	???	n/a	n/a	0%
10	Public Participation and Plan Adoption	\$97,916	\$4,667.48	5%
11	Implementation and Comparison to the Previous Regional Water Plan	n/a	n/a	0%
12	???	n/a	n/a	0%
TOTAL		\$200,691	\$4,946.48	2%

3

2026 Plan Schedule Detail

Date	Scheduled Events/Tasks
Aug. 2021	Region D Pre-Planning Meeting,
January 2022	TWDB releases initial Draft Non-Municipal data for Livestock, Manufacturing, and Steam-Electric Power Generation for review
March 2022	TWDB releases Draft list of municipal WUGs, GPCD, historical population, and water use for review
April 2022	Region D Meeting – Initial Non-Municipal data summary
June 2022	Contract Amendments
Sept. 2022	TWDB releases remaining Draft Non-Municipal data for Irrigation and Mining for review

4

Today's Discussion

Summary of Non-Municipal Data and Projections Received (& WUG info)

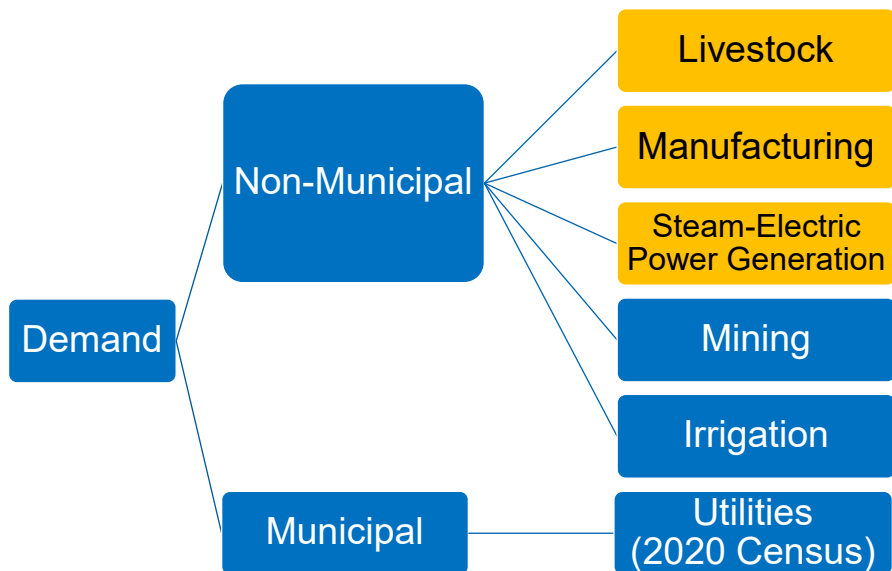
Near-Term Path Forward

No Actions requested today

5

5

Projections of Future Water Use



6

6

Draft Projections of Water Demand for Livestock in Region D

7

Difference in Methodologies, 2021 vs. 2026: Livestock

Overall methodology did not change, updating of underlying data

Differences in baseline data due to:

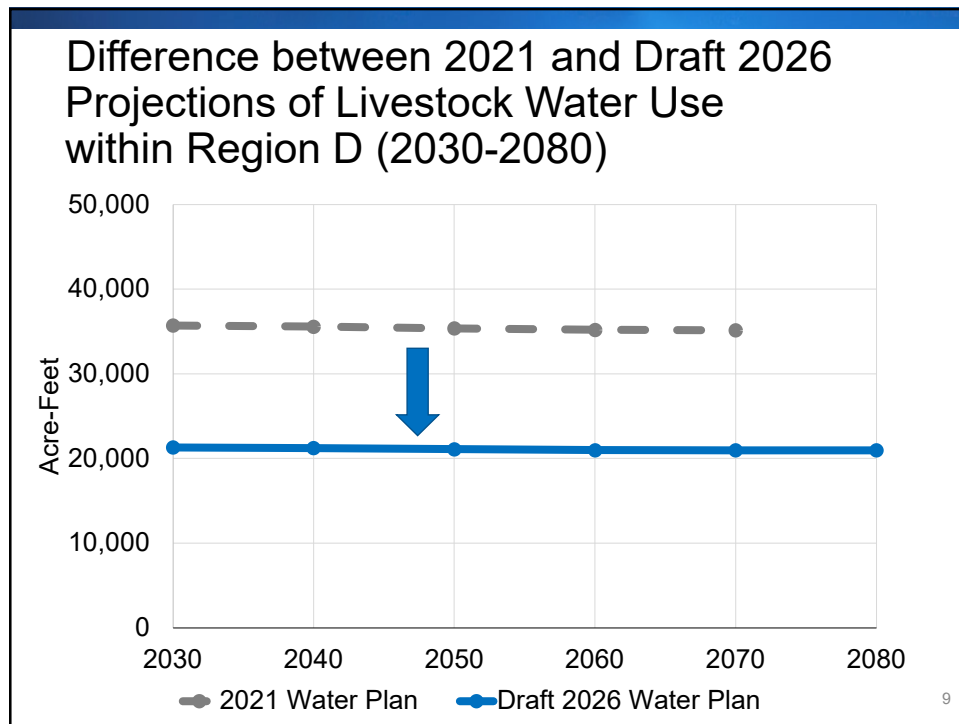
- Updates to the water use geographic splits (region/county/basin) - applied retroactively from 2015 forward.
- Changes in the assumed water use parameters for five livestock types
- Changes in broiler chicken inventory estimates

TWDB category	Subcategory	2021 RWP water use (gal/head/day)	2026 RWP water use (gal/head/day)
Cattle	Milk	75	55
	Fed & other cattle	15	15
Chickens	Non-broilers	0.086	0.09
	Broilers	0.077	0.09
Turkeys	Turkeys	0.2	0.2
Equine	Horses, ponies, mules, burros, & donkeys	12	12
Hogs	Hogs	11	5
Sheep	Sheep	2	2
Goats	Milk	0.5	2
	Meat		
	Angora		

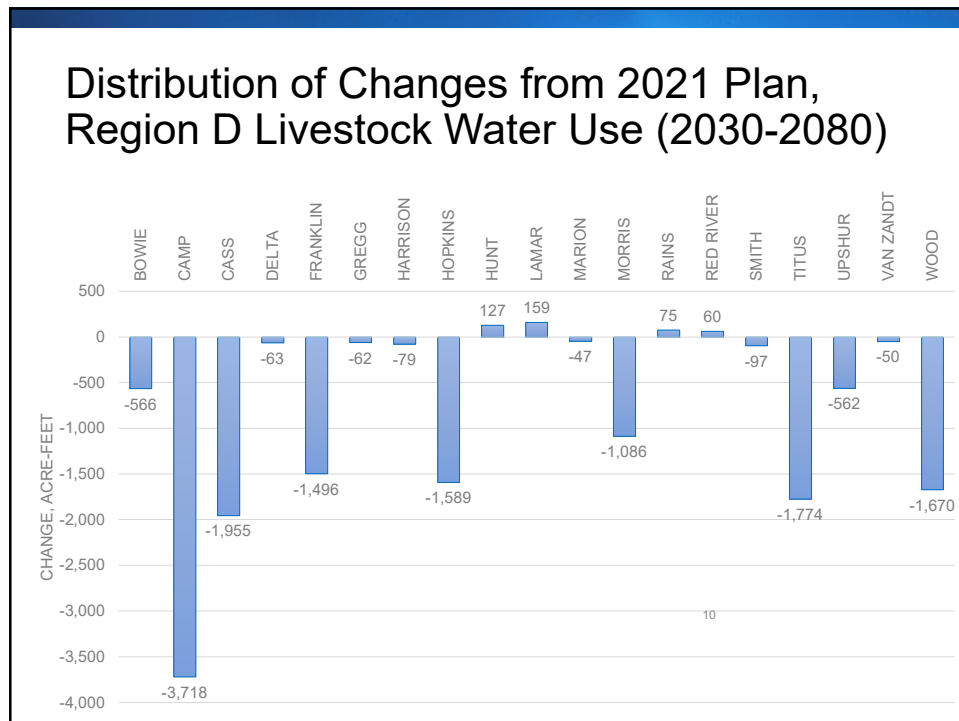
Estimated water use consistent across the planning duration

8

8

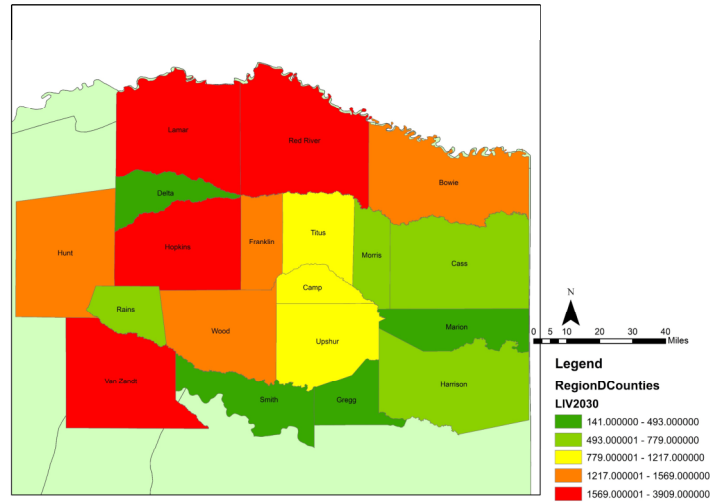


9



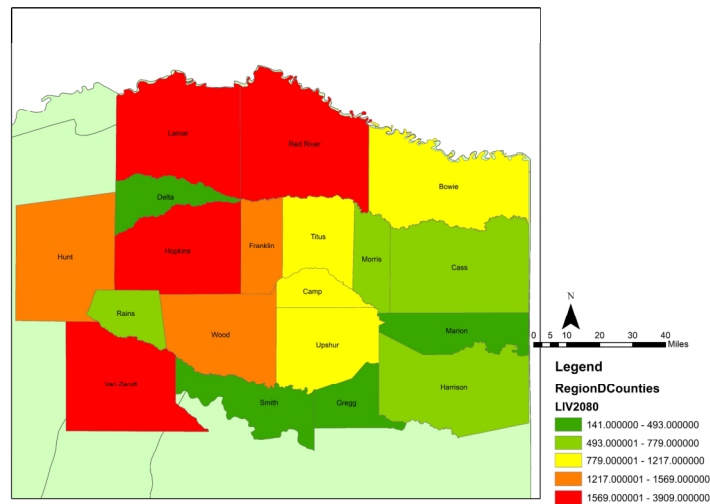
10

Draft Projections of Region D Livestock Use by County (2030)



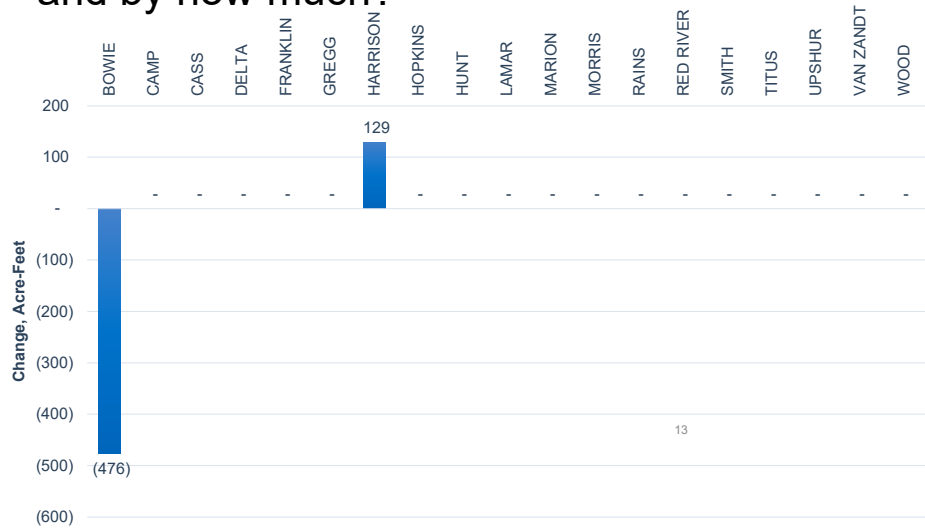
11

Draft Projections of Region D Livestock Use by County (2080)



12

Where is change projected to occur in
Livestock use over the next 50 years,
and by how much?



13

Draft Projections of
Water Demand for
Manufacturing in
Region D

14

Difference in Methodologies, 2021 vs. 2026: Manufacturing

2021 Summary

- Applied industry-specific data to develop growth trends for each industry to estimate 2020 and 2030 period.
- Assumed constant for subsequent decades.

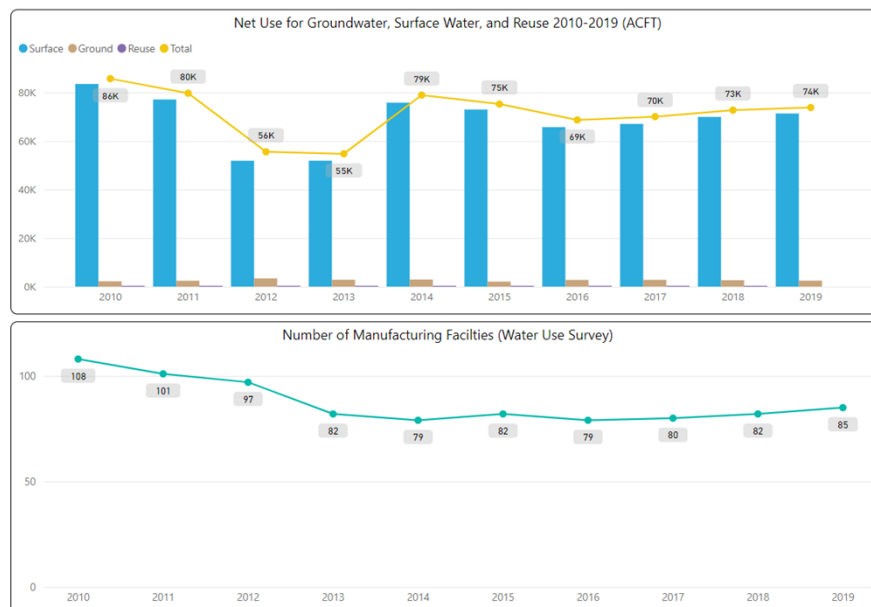
2026 Summary

- Generate county baseline from highest surveyed use (2015-2019)
- Add estimate for unaccounted water (i.e., missing entities).
- Assume linear demand trend based on County Business Patterns (U.S. Census Bureau) historical rate of change (2010-2019)

15

15

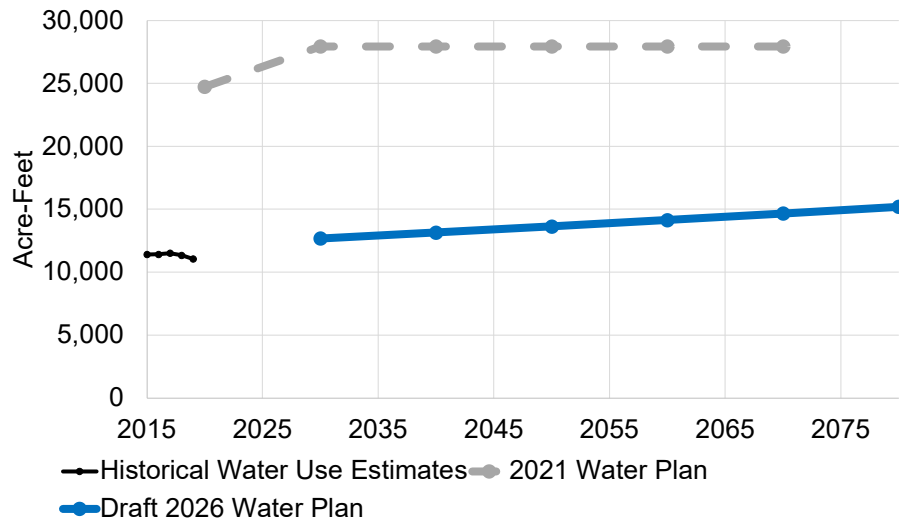
Historical Manufacturing Use in Region D



16

16

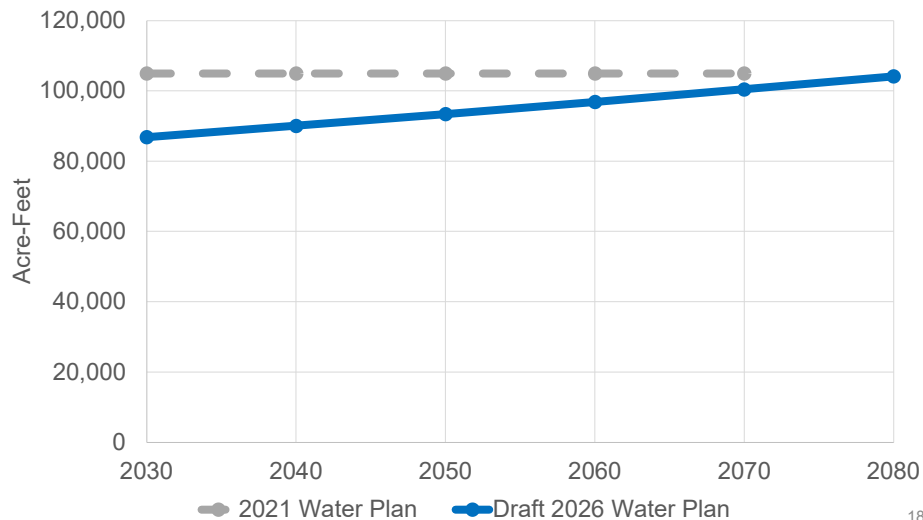
Example: Harrison County



17

17

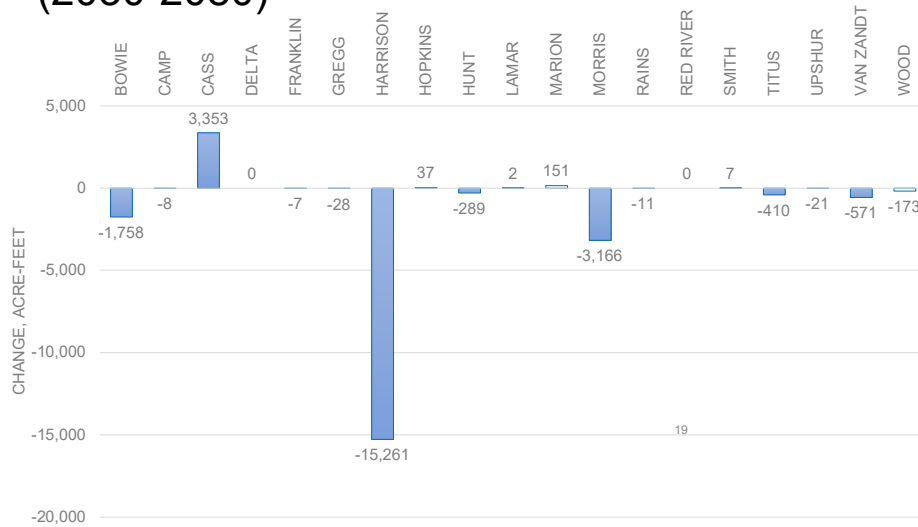
Difference between 2021 and Draft 2026 Projections of Manufacturing Water Use within Region D (2030-2080)



18

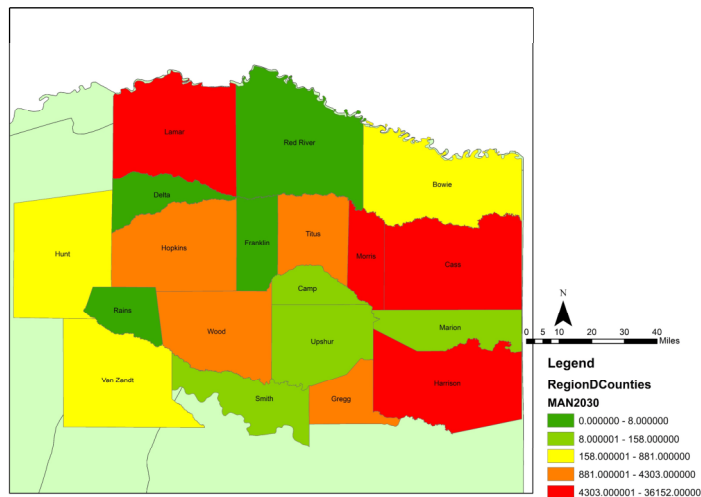
18

Distribution of Changes from 2021 Plan, Region D Manufacturing Water Use (2030-2080)



19

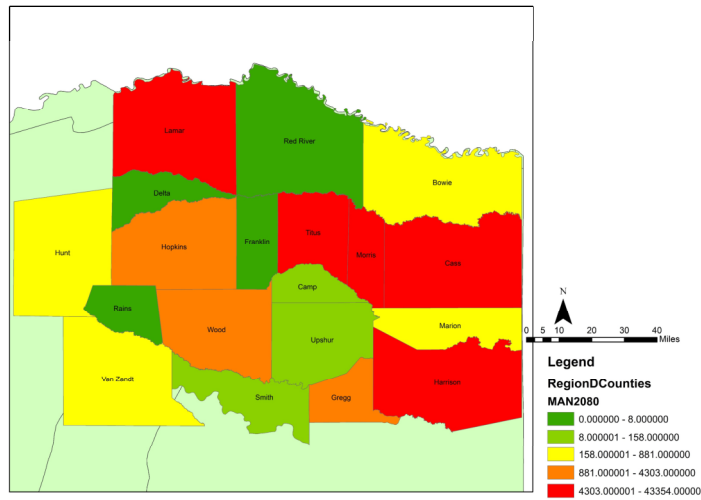
Draft Projections of Region D Manufacturing Use by County (2030)



20

20

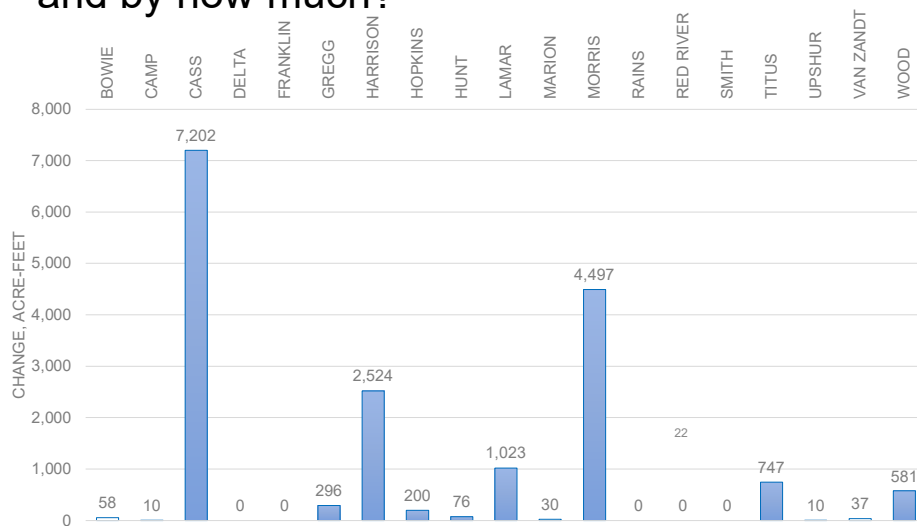
Draft Projections of Region D Manufacturing Use by County (2080)



21

21

Where is change projected to occur in
Manufacturing use over the next 50 years,
and by how much?



22

Draft Projections of Water Demand for Steam Electric Power Generation in Region D

23

Difference in Methodologies, 2021 vs. 2026: Steam Electric

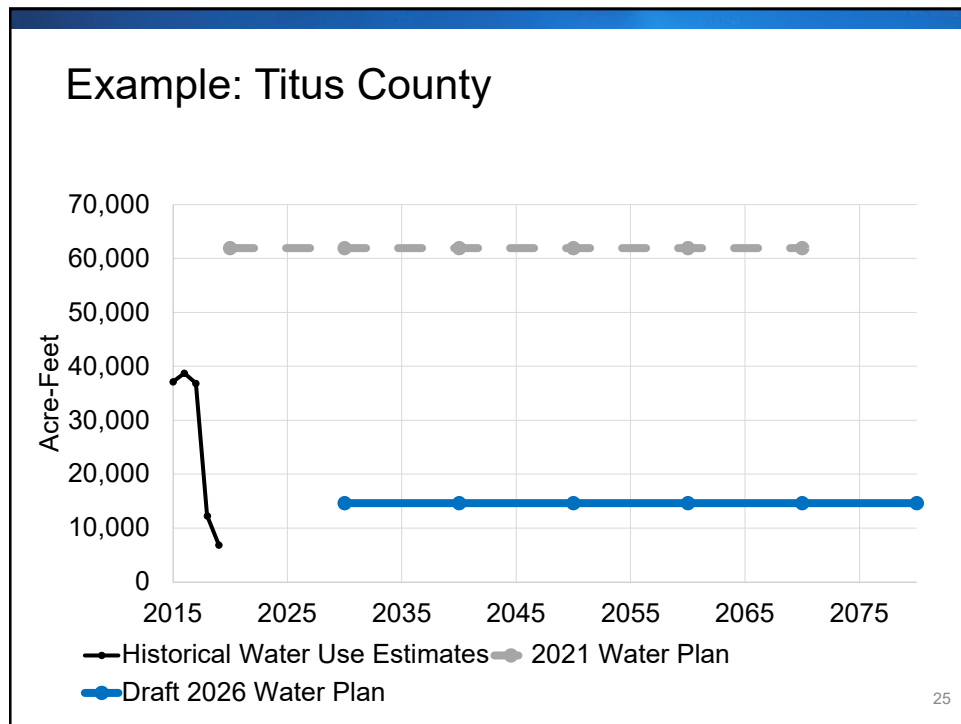
Overall methodology did not change

- Estimated baseline developed from the highest single-year county surveyed water use between 2015 and 2019
- Adjustments reflecting near-term facility additions and retirements
- Assumed constant projected use through 2080

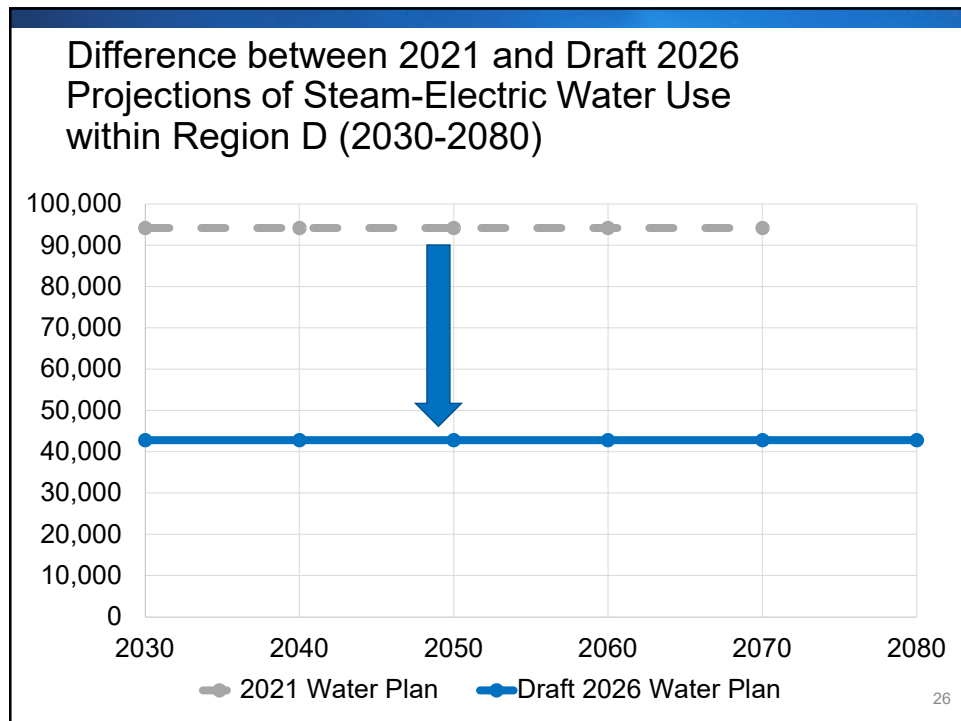
Fewer proposed facilities compared to previous plan and removal of retired facilities result in decreases in projected demands

24

24

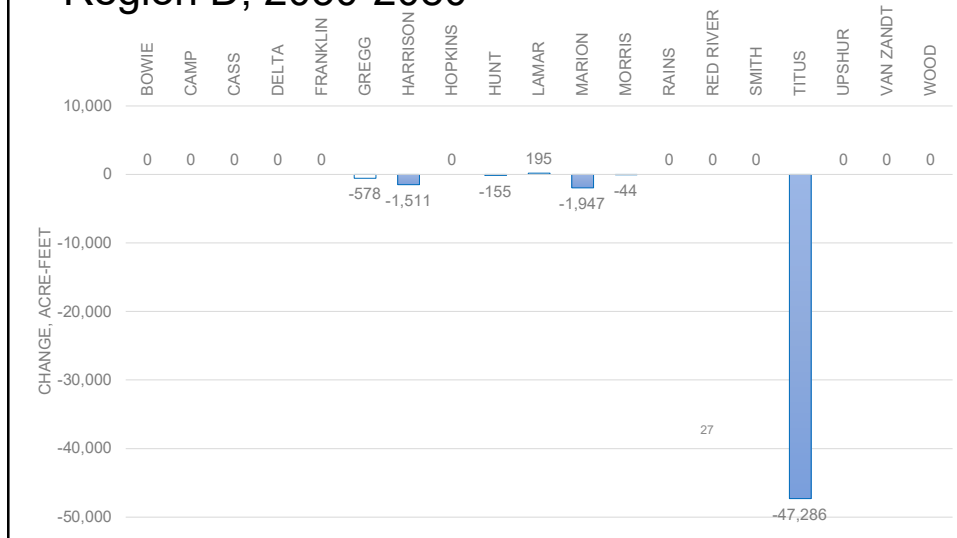


25



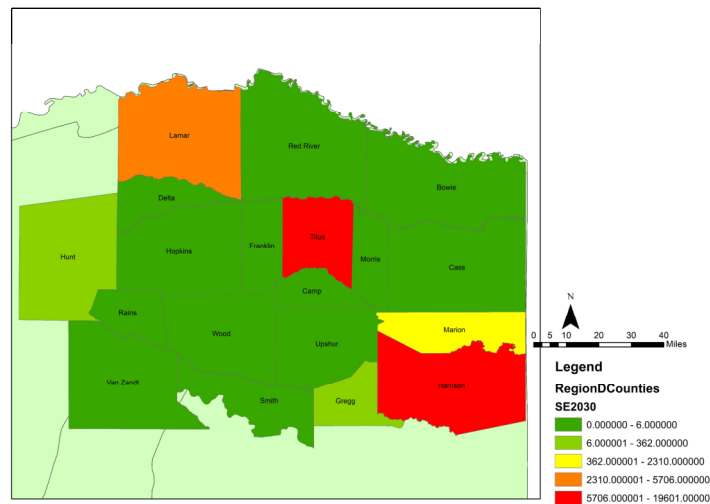
26

Distribution of Draft Projected Changes from 2021 Plan, Steam-Electric Water Use Within Region D, 2030-2080



27

Draft Projections of Steam Electric Water Use Within Region D by County, All Years



28

28

Preliminary Region D Municipal Water User Group (WUG) Information

29

Draft WUG Identifications and Historical Uses

Count

Municipal	164
Non-Municipal	95
TOTAL	259

New WUGs

2021 PLAN	2026 PLAN	Utility Own Type
COUNTY-OTHER, CASS	CITY OF AVINGER	MUNICIPALITY
COUNTY-OTHER, HARRISON	ELYSIAN FIELDS WSC	WATER SUPPLY CORPORATION
COUNTY-OTHER, HARRISON	CYPRESS VALLEY WSC	WATER SUPPLY CORPORATION
COUNTY-OTHER, HOPKINS	CITY OF COMO	MUNICIPALITY
COUNTY-OTHER, TITUS	CITY OF TALCO	MUNICIPALITY

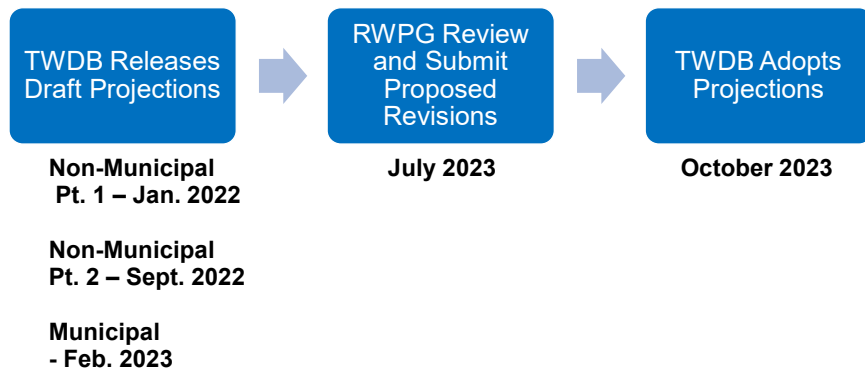
Change of Names

2021 Plan	2026 Plan
WEST GREGG SUD	WEST GREGG WSC
NORTH HUNT SUD	NORTH HUNT WSC
SHADY GROVE WSC	SHADY GROVE SUD
SMITH COUNTY MUD 1	EAST TEXAS MUD OF SMITH COUNTY
ALGONQUIN WATER RESOURCES OF TEXAS	LIBERTY UTILITIES SILVERLEAF WATER
ALGONQUIN WATER RESOURCES OF TEXAS	LIBERTY UTILITIES SILVERLEAF WATER

30

30

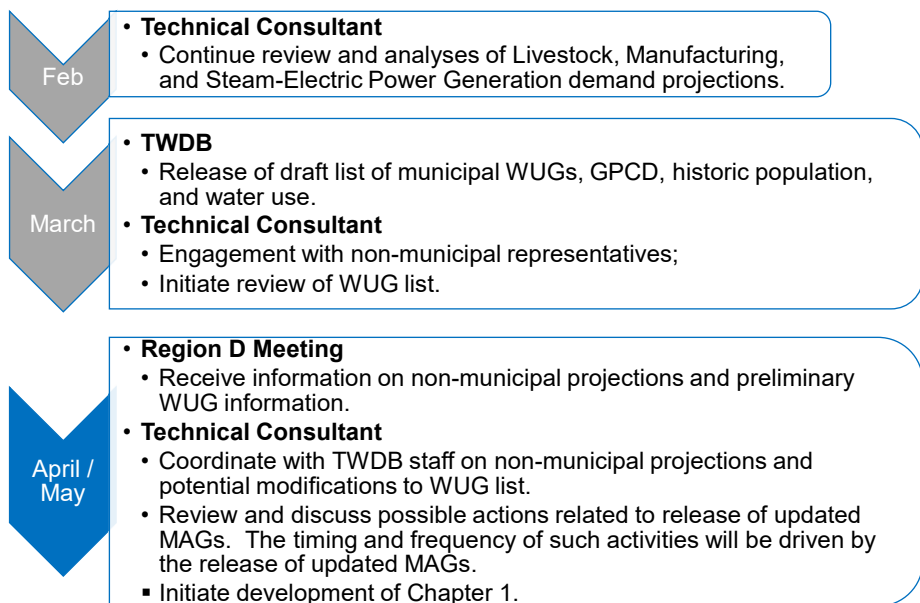
Review and Approval Process between Region D and TWDB



31

31

2022



32

32

2022 (cont'd)

June

- **TWDB**
- Contract amendments.

July

- **Potential Region D Meeting**
 - Consider action to approve amended contract;
 - Status on non-municipal demands;
 - Plan for initiating Water Supply Assumptions TM;
 - Consideration and potential action on any proposed changes to WUG List by July 2022.
- **Technical Consultant**
 - Submittal of approved proposed revisions to Draft WUG List;
 - Initiate coordination with TWDB staff on development of Draft Water Supply Assumptions TM.

Sept

- **TWDB**
- Release of draft irrigation and mining projections.

33

2022 (cont'd)

Oct.

- **Technical Consultant**
 - Review and analyses of irrigation and mining projections, and engagement;
 - Submit Draft Water Supply Assumptions TM to Region D RWPG for review.

Nov

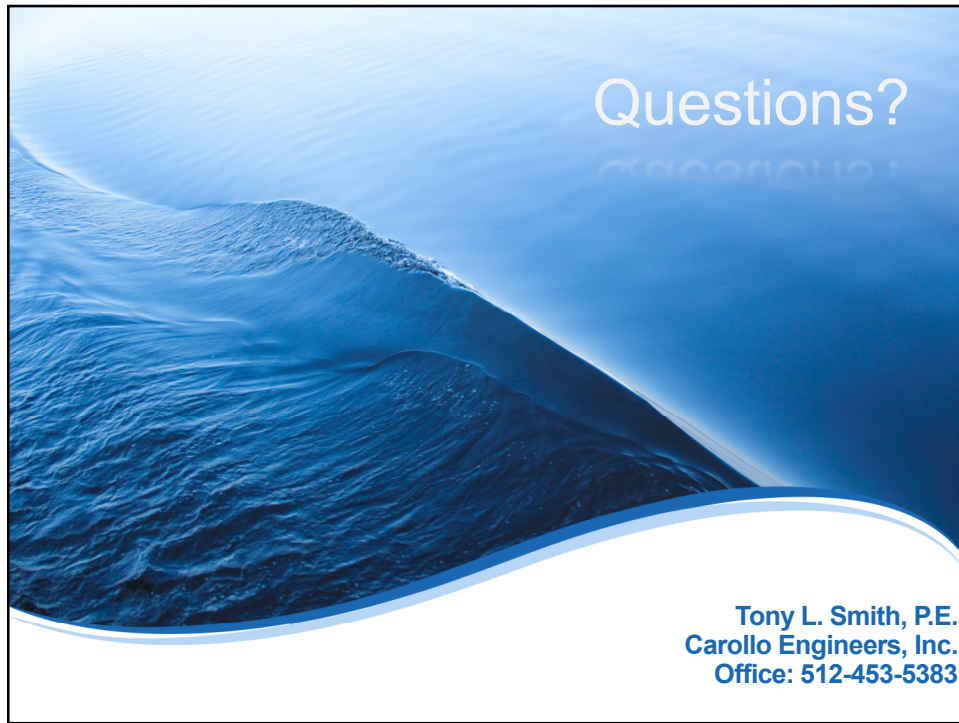
- **Potential Region D Meeting**
 - Consider action to approve submittal of changes of non-municipal demand projections to TWDB by December 2022, pending any necessary revisions deemed appropriate;
 - Review and discussion of Draft Water Supply Assumptions TM. Consider action to approve submittal of Draft Water Supply Assumptions TM to TWDB by December 2022, pending any necessary revisions deemed appropriate.

Dec

- **Technical Consultant**
 - Submit proposed revisions to non-municipal demands to TWDB;
 - Submit Water Supply Assumptions TM to TWDB.

34

34



35

**MEETING OF THE
North East Texas Regional Water Planning Group
WEDNESDAY, April 13, 2022**

**Agenda Item 11
Financial Report**

February 18, 2022

Mr. Kyle Dooley, P.E.
Executive Director/CEO
228 Texas Ave., Suite A
New Boston, TX 75570

RE: January 2022 Invoice – 2026 Region D Water Planning
(TWDB Contract No. 2148302556 / Carollo # 200343)

Dear Mr. Dooley:

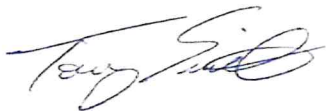
Please find the attached invoice for services performed through January 2022, under the above referenced contract. The Carollo Team has been working on the following items for the 2026 Region D Regional Water Plan:

1. Participation in 8/4/2021 Region D Meeting;
2. Review of correspondence; and
3. Performed internal project management and coordination.

Should you have any questions regarding this matter, please don't hesitate to contact me.

Sincerely,

Carollo Engineers, Inc.



Tony L. Smith, P.E.
Project Manager

TLS;

Enclosures



Attn: Mr. Kyle Dooley, P.E., Executive Director/CEO
 228 Texas Ave., Suite A
 New Boston, TX 75570

February 18, 2022
 Project No.: 200343
 Invoice No.: FB20236

Regional Water Plan for the Region D Regional Water Planning Group (Region D RWPG)
 Total Contract: \$200,691

Professional Services from August 4, 2021 to January 31, 2022

Task 2A	00002A	Non-Municipal Water Demand Projections			
Professional Personnel					
		Hours	Rate	Amount	
Project Professional					
	Smith, Tony	1.0	86.05	86.05	
	Totals	1.0		86.05	
		Fringe	86.05	129.08	
		Overhead	129.08	255.76	
	Total Labor				255.76
Additional Fees					
Profit				23.24	
	Total Additional Fees			23.24	23.24
Billing Limits					
Total Billings		Current	Prior	To Date	
		279.00	0.00	279.00	
Limit				24,152.00	
Remaining				23,873.00	

Task Total \$ **279.00**

Task 10	000100	Public Participation and Plan Adoption		
Professional Personnel				
		Hours	Rate	Amount
Project Professional				
	Smith, Tony	15.0	86.05	1,290.86
Document Processing/Clerical				
	Thompson, Chris	0.5	39.48	19.74
	Totals	15.5		1,310.60
		Fringe	1,310.60	1,965.89
		Overhead	1,965.89	3,895.09
	Total Labor			3,895.09

Additional Fees

Profit

353.90

Total Additional Fees**353.90****353.90****Billing Limits**

Total Billings

Current

4,248.99

Prior

0.00

To Date

4,248.99

Limit

56,750.00

Remaining

52,501.01

Task Total

\$ 4,248.99

Project Total

\$ 4,527.99

Project

200343.0S

2026 Region D - SUBS

Subconsultant Total

\$ -

Billing Limits

Total Billings

Current

0.00

Prior

0.00

To-Date

0.00

Limit

52,611.00

Remaining

52,611.00

Project Total

\$ 4,527.99

Retainage

Current Retainage

226.40 (5% of 4,527.99)

- 226.4

Prior Retainage

0.00

Retainage To-Date

226.40

Please Pay This Amount \$ 4,301.59**Project Summary**

Contract Amount

200,691.00

Less Current Invoice

4,301.59

Less Total Retainage to Date

226.40

Less Prior Amount Invoiced

0.00

Balance Remaining

196,163.01

Remit To: P.O. Box 30835 | Salt Lake City, UT 84130-0835 | United States**Phone: 1-800-523-5822**For any questions regarding this invoice please contact us at ClientInvoicing@carollo.com.

March 21, 2022

Mr. Kyle Dooley, P.E.
Executive Director/CEO
228 Texas Ave., Suite A
New Boston, TX 75570

RE: February 2022 Invoice – 2026 Region D Water Planning
(TWDB Contract No. 2148302556 / Carollo # 200343)

Dear Mr. Dooley:

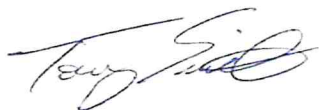
Please find the attached invoice for services performed in February 2022, under the above referenced contract. The Carollo Team has been working on the following items for the 2026 Region D Regional Water Plan:

1. Review of Draft non-municipal projection data; and
2. Performed internal project management and coordination.

Should you have any questions regarding this matter, please don't hesitate to contact me.

Sincerely,

Carollo Engineers, Inc.



Tony L. Smith, P.E.
Project Manager

TLS;

Enclosures



Attn: Mr. Kyle Dooley, P.E., Executive Director/CEO
 228 Texas Ave., Suite A
 New Boston, TX 75570

March 21, 2022
 Project No.: 200343
 Invoice No.: FB21075

Regional Water Plan for the Region D Regional Water Planning Group (Region D RWPG)
 Total Contract: \$200,691

Professional Services from February 01, 2022 to February 28, 2022

Task 10 000100 Public Participation and Plan Adoption

Professional Personnel

	Hours	Rate	Amount
Project Professional			
Smith, Tony	1.5	86.05	129.08
Totals	1.5		129.08
	Fringe	129.08	193.62
	Overhead	193.62	383.63
Total Labor			383.63

Additional Fees

Profit			34.86
Total Additional Fees			34.86

Billing Limits

	Current	Prior	To Date
Total Billings	418.49	4,248.99	4,667.48
Limit			56,750.00
Remaining			52,082.52

Task Total \$ **418.49**

Project Total \$ **418.49**

Project 200343.0S

2026 Region D - SUBS

Subconsultant Total \$ -

Billing Limits

	Current	Prior	To-Date
Total Billings	0.00	0.00	0.00
Limit			52,611.00
Remaining			52,611.00

Project Total \$ **418.49**

Retainage

Current Retainage	20.92 (5% of 418.49)	- 20.92
Prior Retainage	226.40	
Retainage To-Date	247.32	

Please Pay This Amount \$ 397.57

Project Summary

Contract Amount	200,691.00
Less Current Invoice	397.57
Less Total Retainage to Date	247.32
Less Prior Amount Invoiced	4,301.59
Balance Remaining	195,744.52

Outstanding Invoices

Number	Date	Balance	Retainage	Now Due
FB20236	2/18/2022	4,301.59	226.40	4,301.59
n/a	n/a	0.00	0.00	0.00
Total		4,301.59	226.40	4,301.59

Remit To: P.O. Box 30835 | Salt Lake City, UT 84130-0835 | United States
Phone: 1-800-523-5822

For any questions regarding this invoice please contact us at ClientInvoicing@carollo.com.