

AGENDA
LAVACA REGIONAL WATER PLANNING GROUP
Regular Meeting
March 6, 2023
12:00 p.m. (Noon)

Meeting will be held in person at the Main Office of the Lavaca Navidad River Authority Office Complex, 4631 FM 3131, located approximately seven (7) miles east of Edna.

You may also access the meeting through audio/video conferencing: <https://bit.ly/3m8UOh0>

1. Open meeting.
2. Receive public comments.
3. Consider approval of meeting minutes of December 5, 2022 and act as necessary.
4. Consider nominations for new voting members and act as necessary.
5. Conduct election of officers: Secretary, Vice-Chair, Chair, and Executive Committee and act as necessary
6. Receive update from Texas Water Development Board (TWDB) Project Manager and act as necessary.
7. Receive reports from regional liaisons and Interregional Planning Council representative and act as necessary.
8. Receive briefing and update from Black and Veatch consultant and act as necessary.
 - A. Schedule and Progress Update
 - B. Discussion of Potential Revisions to the Draft Mining Demands, as needed
 - C. Presentation and Discussion on Draft Projections for Population and Municipal Demands
9. Consider Action to Approve Revisions to Draft Mining Demand Projections to Submit to TWDB, as needed and act as necessary.
10. Discuss and schedule future meeting dates and act as necessary.
11. Receive public comments.
12. Adjourn

Lavaca Regional Water Planning Group



Regular Planning Group Meeting

March 6, 2023

Jaime Burke



Agenda Items

1. Open meeting
2. Receive public comments
3. Consider approval of minutes
4. Consider nomination of new voting members
5. Conduct election of officers
6. TWDB update
7. Receive reports from regional liaisons and Interregional Planning Council reps
8. Receive briefing and update from Black & Veatch (technical consultant)
9. Consider approval of mining demand projection revisions to request to TWDB, as needed
10. Schedule
11. Public Comments
12. Adjourn

Agenda Item #8

Briefing and Update from Black & Veatch





Agenda Item #8A

Schedule and Progress Update

CONCEPTUAL/INITIAL SCHEDULE FOR REGION P PLAN DEVELOPMENT

	QTR	2021				2022				2023				2024				2025			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Regional Water Planning Rules Updates																					
Texas Legislative Sessions																					
TWDB Releases Data / Information																					
TASK 1 Planning Area Description																					
TASK 2 Population & Water Demands Projections																					
TASK 3 Water Availability & Supply Analysis																					
TASK 4 Identification of Water Needs																					
Technical Memorandum Due (March 4, 2024)																					
TASK 5 Water Management Strategy (WMS) Evaluations																					
TASK 6 Impacts of Plan & Cumulative Effects																					
TASK 7 Drought Response Information & Recommendations																					
TASK 8 Unique Segments & Policy Recommendations																					
Initially Prepared Plan Due (March 3, 2025)																					
TASK 9 Implementation & Comparison to Previous Plan																					
TASK 10 Public Participation and Plan Adoption																					
Final Plan Due (October 20, 2025)																					





LEGEND

 TWDB Conceptual Schedule
  B&V Planned Schedule
  TWDB Data Release
  TWDB Deadline

2023 ANTICIPATED REGION P SCHEDULE (Based on Current and **Anticipated* Funded Tasks**)

	QTR 1			QTR 2			QTR 3			QTR 4		
	J	F	M	A	M	J	J	A	S	O	N	D
Regional Water Planning Rules Updates												
TASK 1 Planning Area Description												
TASK 2A Non-municipal Water Demand Projections												
• Livestock, Manufacturing, Steam-Electric												
• Mining and Irrigation												
TASK 2B Population and Municipal Demand Projections												
• GPCD, historical population and water use												
• Population and Municipal Water Demand Projections												
TASK 3* Water Availability & Supply Analysis												
TASK 4* Identification of Water Needs/Infeasible WMS												
TASK 5* Water Management Strategy (WMS) Evaluations												
TASK 7* Drought Response Information & Recommendations												
TASK 8 Unique Segments & Policy Recommendations												
TASK 10 Public Participation and Plan Adoption												

LEGEND

-  Region P RWPG Activities
  TWDB Data Release
  Tentative Region P RWPG Meeting
  TWDB Deadline

Summary of TWDB Data Releases to Date

Type	Deadline for RWPG to Review and Submit Revisions to TWDB
Water User Group (WUG) List	July 29, 2022 ✓
Historical WUG data and Draft Baseline GPCD	August 11, 2023
Water Demand Projections: Livestock, Manufacturing, Steam-Electric, Irrigation, and Mining	July 14, 2023
Population and Municipal Water Demand Projections	August 11, 2023

Progress Since Last Meeting

- Prepared revision request for submittal to TWDB, based on the approval the RWPG gave at the December 2022 meeting.
- Received draft population and municipal water demand projections and began reviewing.
- Prepared communication to send draft projections to municipal WUGs for their review.
- Prepared webinar for municipal WUGs to provide background on regional water planning and how/when to provide feedback.

Update on Gulf Coast Aquifer System Modeled Available Groundwater (MAG)

Ground Water Source	RWPG	County	Basin	2021 Plan 2030 MAG (AFY)	2026 Plan 2030 MAG (AFY)
GULF COAST AQUIFER	P	JACKSON	COLORADO-LAVACA	28,025	28,157
GULF COAST AQUIFER	P	JACKSON	LAVACA	49,582	49,484
GULF COAST AQUIFER	P	JACKSON	LAVACA-GUADALUPE	12,875	12,930
Jackson County Total				90,482	90,571
GULF COAST AQUIFER	P	LAVACA	GUADALUPE	41	41
GULF COAST AQUIFER	P	LAVACA	LAVACA	19,811	19,942
GULF COAST AQUIFER	P	LAVACA	LAVACA-GUADALUPE	401	401
Lavaca County Total				20,253	20,384
GULF COAST AQUIFER	P	WHARTON	COLORADO	873	874
GULF COAST AQUIFER	P	WHARTON	COLORADO-LAVACA	14,091	14,100
GULF COAST AQUIFER	P	WHARTON	LAVACA	62,992	63,193
Wharton County (P) Total				77,956	78,167

Agenda Item #8B

Discussion of Potential Revisions to the Draft Mining Demands, As Needed

Draft Mining Water Demand Potential Revisions

Region	County	Historical Water Use Estimates					2021 Regional Water Plan Projections						2026 DRAFT Regional Water Plan Projections					
		2015	2016	2017	2018	2019	2020	2030	2040	2050	2060	2070	2030	2040	2050	2060	2070	2080
P	JACKSON	0	0	0	0	0	70	73	55	40	26	19	0	0	0	0	0	0
P	LAVACA	1,023	373	1,035	1,982	3,812	2,544	1,860	1,416	977	537	297	2,665	2,665	2,665	2,665	2,665	0
P	WHARTON	1	0	0	0	0	18	19	14	10	7	4	0	0	0	0	0	0
Region Total		1,024	373	1,035	1,982	3,812	2,632	1,952	1,485	1,027	570	320	2,665	2,665	2,665	2,665	2,665	0

- Discussion of draft mining demands
 - No mining demands identified for Jackson or Wharton counties
 - Lavaca County historical water use:
 - Projections taken from BEG Mining Use Study
 - Oil and Gas only; no aggregate or coal
 - No current suggestions for any revisions

TWDB 2022 Mining
Water Use Study



Agenda Item #8C

Presentation and Discussion on Draft Projections for Population and Municipal Demands

Draft Population and Municipal Water Demand Projections



TWDB provides the RWPGs with Draft Population and Municipal Water Demand Projections they develop from the State Demographer's Data



The RWPGs are tasked with reviewing the draft projections and providing any requested revisions back to TWDB before August 11, 2023.



The RWPGs will send the draft projections to the utilities (municipal WUGs) to obtain feedback prior to deadline.

Draft Population and Municipal Water Demand Projections



TWDB provides the RWPGs with Draft Population and Municipal Water Demand Projections they develop from the State Demographer's Data

- The draft projections include:
 - Population projections based on the Texas Demographic Center (TDC) full (1.0) migration scenario,
 - Baseline Gallons Per Capita Daily (GPCD),
 - Plumbing code savings projections,
 - Municipal demand projections

Draft Population and Municipal Water Demand Projections

Some key points on these projections include:

- Population projections are based on county-level projections from the Texas Demographic Center (TDC), which used migration rates between the 2010 and 2020 Census to project future growth.
- The Texas Water Development Board (TWDB) drafted WUG-level population and water demand projections using the TDC's full-migration scenario (1.0) projections and provided the half-migration scenario (0.5) projections by Region-County for the planning groups' consideration. The higher of the total regional populations is the allowable cap on total population for the region.
- For the 2026 Regional Water Plans (RWPs), draft county population projections being provided to the RWPGs followed the trends, including population declines.
- As expected, the population projections of certain counties and WUGs are significantly different from those in the 2021 Regional Water Plans.
 - The 2021 RWP projections were based on the 2016 RWP projections, which relied on migration rates from 2000-2010 and the TDC's 2012 projections
 - The 2026 draft projections are tied to the 2020 U.S. Census. These projections include associated updates in the TDC cohort model to reflect updated birth and mortality rates.



TWDB Draft 2026 County Population Projections

		1.0 migration scenario (WUGs projected using this scenario)						0.5 migration scenario					
Region	County	2030	2040	2050	2060	2070	2080	2030	2040	2050	2060	2070	2080
P	JACKSON	15,769	16,762	17,634	18,376	19,143	19,935	15,521	16,251	16,915	17,511	18,122	18,749
P	LAVACA	21,419	22,796	24,127	25,631	27,185	28,790	20,712	21,392	21,991	22,856	23,743	24,653
P	WHARTON	16,368	16,285	16,011	15,671	15,320	14,957	16,611	16,782	16,764	16,735	16,705	16,674
Region P Total		53,556	55,843	57,772	59,678	61,648	63,682	52,844	54,425	55,670	57,102	58,570	60,076

Note: 1.0 migration scenario is the higher region-total population projections

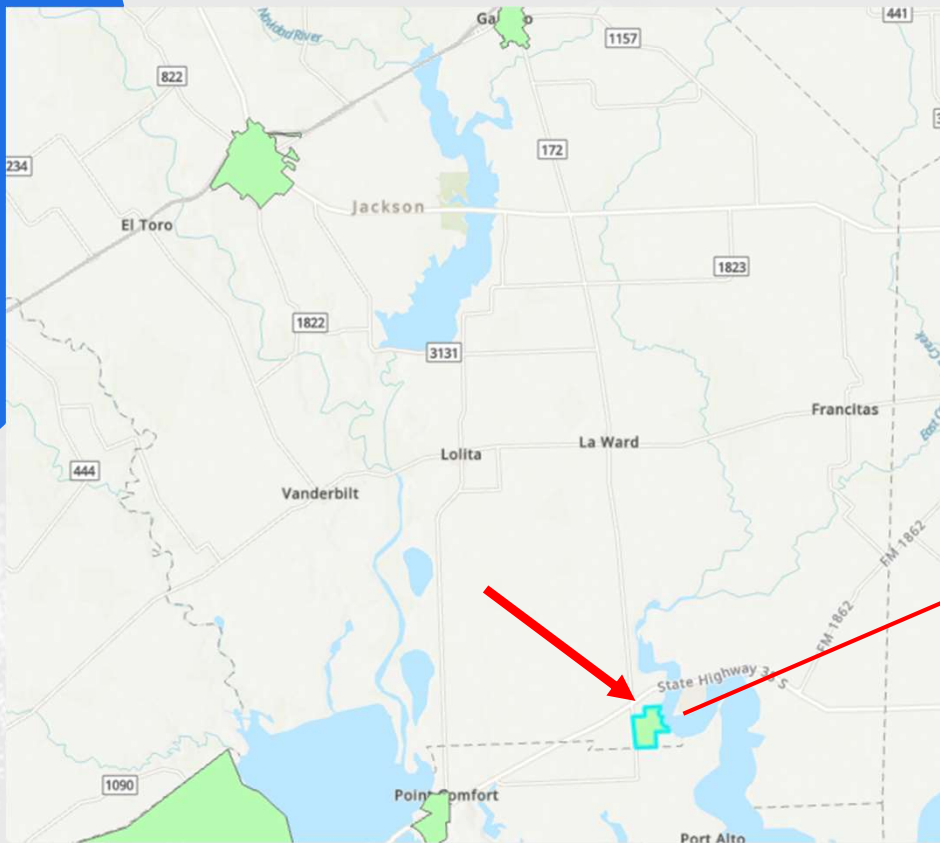
RWPG will be able to choose if they feel the 0.5 migration scenario is more appropriate

TWDB Draft 2026 WUG Population Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario					
Split Region	County	EntityName	2030 Pop	2040 Pop	2050 Pop	2060 Pop	2070 Pop	2080 Pop
P	JACKSON	County-Other, Jackson	8,016	8,661	9,194	9,689	10,203	10,736
P	LAVACA	County-Other, Lavaca	11,482	12,297	13,082	13,965	14,874	15,809
P	WHARTON	County-Other, Wharton	3,384	3,366	3,254	3,141	3,024	2,905
P	JACKSON	Edna	5,848	6,213	6,534	6,807	7,089	7,381
P	WHARTON	El Campo	12,265	12,203	12,015	11,774	11,526	11,268
P	JACKSON	Ganado	1,850	1,813	1,817	1,773	1,727	1,676
P	LAVACA	Hallettsville	3,027	3,255	3,479	3,751	4,031	4,319
P	LAVACA	Moulton	776	746	717	689	662	636
P	LAVACA	Shiner	2,282	2,441	2,598	2,781	2,970	3,166
P	LAVACA	Yoakum	3,852	4,057	4,251	4,445	4,648	4,860
P	JACKSON	Quadvest	55	75	89	107	124	142
P	WHARTON	Wharton County WCID 1	719	716	742	756	770	784

RWPG will be able to choose if they feel the 0.5 migration scenario is more appropriate

Quadvest – Jackson County



TWDB Draft 2026 WUG Municipal Demand Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario						
Split Region	County	EntityName	Baseline GPCD	2030 Demar	2040 Demar	2050 Demar	2060 Demar	2070 Demar	2080 Demar
P	JACKSON	County-Other, Jackson	95	732	738	767	799	835	871
P	LAVACA	County-Other, Lavaca	116	1,326	1,352	1,418	1,501	1,588	1,678
P	WHARTON	County-Other, Wharton	119	400	379	363	349	336	323
P	JACKSON	Edna	137	814	830	865	896	930	966
P	WHARTON	El Campo	170	2,146	2,062	2,016	1,973	1,931	1,888
P	JACKSON	Ganado	103	187	173	172	167	163	158
P	LAVACA	Hallettsville	204	643	670	709	761	814	869
P	LAVACA	Moulton	184	148	137	131	126	121	116
P	LAVACA	Shiner	212	506	525	554	591	629	668
P	LAVACA	Yoakum	160	633	642	668	696	727	759
P	JACKSON	Quadvest	199	12	16	18	22	25	28
P	WHARTON	Wharton County WCID 1	153	113	108	111	113	115	117

Agenda Item #9

Consider Approval of Revisions to the Draft Mining Demands, As Needed

Agenda Item #10

Schedule

Agenda Item #11

Public Comments

Agenda Item #12

Adjourn

TWDB Update

Region P Regional Water Planning Group Meeting

03/06/23

Jean Devlin

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Population and Municipal Projections

- Population and Municipal Projections were released on 1/23/23
- Included in the review and potential revisions are:
 - Population projections based on the Texas Demographic Center full migration scenario, baseline GPCD
 - Plumbing code savings projections
 - Municipal demand projections
 - Basin split percentages for each water user group (WUG)
- Population and Water Demand projection data is also available on our website along with the interactive dashboard:
<https://www.twdb.texas.gov/waterplanning/data/projections/2027/municipal.asp>

Task 4B: Identifying Infeasible WMS

Clarification

- Data to assist with infeasible WMS task provided on 1/10/23
- Clarifying guidance was provided for this task on 1/31/23
- The statutory language behind this new requirement is:
“Infeasible WMSs include those WMSs where proposed sponsors have not taken an affirmative vote or other action to make expenditures necessary to construct or file applications for permits required in connection with implementation of the WMS on a schedule in order for the WMS to be completed by the time the WMS is needed to address drought in the plan.”

Task 4B: Identifying Infeasible WMS

Clarification

- Infeasibility review is not required for strategies and projects that do not require a permit or involve construction.
- Efforts should be focused on reviewing strategies and projects in the 2021 Regional Water Plan that require a permit and/or involve construction and that:
 - are shown to be online by the 2020 (in this case no later than January 5, 2023) or 2030 decade,
 - are related to new major reservoirs, seawater desalination, direct potable reuse, brackish groundwater, aquifer storage and recovery, and out of state water transfers (see data spreadsheets provided to RWPGs on 1/10/23) and shown to be online in the nearer-term planning decades (i.e., 2020, 2030), or
 - that will generally require significant resources and require significant time to implement.

Interregional Planning Council

- First meeting held on 11/9/22
- Surveys have been sent out to all RWPGs on recommendation implementation and IPC on prioritization of recommendations. All results are currently with Temple for review
- There is a current board item to replace members from Region F and Region J at the next meeting.
- Next meeting is scheduled for 3/9/23

Guidance and Materials

- New one-page reference documents are now available on the TWDB Website:
 - Water Supply and Flood Mitigation Strategies
 - Drought of Record
 - Consistency Reviews for TWDB Financial Assistance Projects
- Updated full-length guidance is available on the TWDB website:
 - Member Guide
 - Administrative Guidance

Educational information can be found on the TWDB website here:
<https://www.twdb.texas.gov/waterplanning/rwp/education/index.asp>

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