



Region I

East Texas Regional
Water Planning Group



Regional Water Planning Group Meeting

etexwaterplan.org



February 23, 2023

Agenda Item No. 13

Report from Consultant Team



PLUMMER



AGS

Advanced Groundwater Solutions, LLC



Schedule Updates

- **Completed** Line Items
 - Item 11 Draft Population and Municipal demand projections released by TWDB
 - Item 16 Updated MAGs released

Derived from information available at <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/documents.asp>



Schedule Updates

- **New** Line Items
 - Item 19 Identify infeasible WMSs in the 2021 RWPs
 - Item 21 Amendments to 2021 RWPs to remove/revise infeasible WMSs
 - Item 22 RWPG adopted amendments to 2021 RWPs to remove/revise infeasible WMSs due to TWDB **6/5/2024**

Derived from information available at <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/documents.asp>



Schedule Updates

- **2021 Plan WMS Feasibility Review**

- Online decade of 2020
- Require a permit and/or involve construction
- Will require significant time and resources to implement
- Related to:
 - New Major Reservoirs
 - Seawater Desalination
 - Direct Potable Reuse
 - New Brackish Groundwater
 - Aquifer Storage and Recovery; or,
 - Out of State Water Transfers

Derived from information available at <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/TWDBcomms.asp>



Schedule Updates

- **Infeasible Strategies**

- Strategies that were not online by January 5, 2023 **AND** sponsors have not taken affirmative steps towards implementation.
- Affirmative steps include:
 - Spending money on the strategy
 - Voting to spend money on the strategy
 - Applying for a federal or state permit for the strategy

Derived from information available at <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/TWDBcomms.asp>





SUPPLY








DEMAND



STRATEGIES

Schedule Updates

Item	Entity	Activity	2023					
			Feb	Mar	Apr	May	Jun	Jul
	11	TWDB	Draft Population and Municipal Demands Released					
	14	TWDB	DB27 prepared for data entry					
	12	RWPG	Review draft projections and finalize adjustments with TWDB staff					
	17	RWPG	Evaluate water availability and existing water supplies					
	18	RWPG	Identify water needs					
	19	RWPG	Identify infeasible WMSs in the 2021 RWPs					

Due July 2023

Derived from information available at <https://www.twdb.texas.gov/waterplanning/rwp/planningdocu/2026/documents.asp>



Draft Population and Municipal Demand Projections

- Population and Municipal Demand
 - Revision Requests due August 2023
- Non-Municipal Demand
 - Revision Requests due July 2023
- Projection Methodology
 - <http://www.twdb.texas.gov/waterplanning/data/projections/methodology/index.asp>



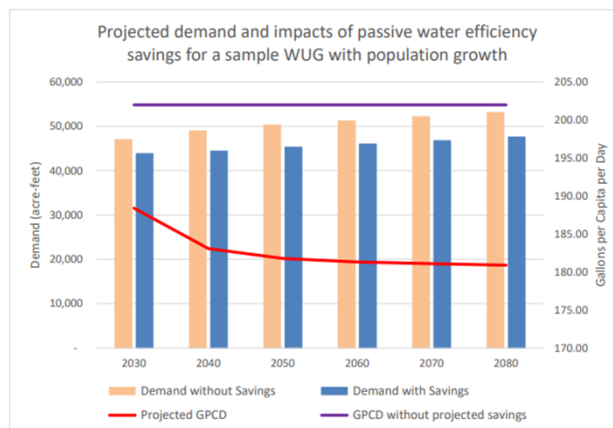
Municipal Demand Methodology

1. Develop Population projections by WUG
2. Determine base GPCD by WUG
3. Develop plumbing code savings projections by WUG
4. Calculate municipal demand projections

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



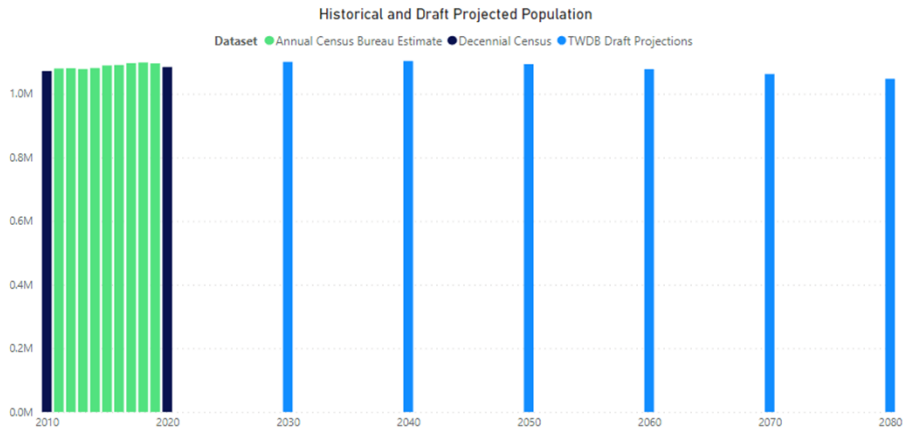
Plumbing Code Savings



<http://www.twdb.texas.gov/waterplanning/data/projections/2027/doc/2026PopMunMethodology.PDF>



Draft Region I Population Projections



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



Draft Region I Population Projections

	2030	2040	2050	2060	2070	2080	Δ Population	Δ Percent
ANDERSON	59,147	59,243	58,964	58,619	58,279	57,944	(1,203)	-2%
ANGELINA	88,045	88,642	88,515	88,648	88,779	88,908	863	1%
CHEROKEE	49,665	48,324	46,616	44,793	42,996	41,225	(8,440)	-17%
HARDIN	57,184	56,821	56,106	54,822	53,556	52,308	(4,876)	-9%
HENDERSON	25,474	26,404	26,918	27,503	28,080	28,649	3,175	12%
HOUSTON	20,902	19,597	18,199	16,961	15,741	14,538	(6,364)	-30%
JASPER	30,451	27,613	24,484	21,549	18,656	15,804	(14,647)	-48%
JEFFERSON	258,461	259,742	257,211	251,414	245,700	240,068	(18,393)	-7%
NACOGDOCHES	69,105	70,589	72,550	75,507	78,422	81,295	12,190	18%
NEWTON	10,705	9,227	7,730	6,395	5,079	3,782	(6,923)	-65%
ORANGE	87,065	88,479	88,819	87,583	86,365	85,164	(1,901)	-2%
PANOLA	21,227	19,766	18,028	16,496	14,986	13,498	(7,729)	-36%
POLK	9,173	9,905	10,267	10,662	11,051	11,434	2,261	25%
RUSK	50,112	47,750	44,544	40,996	37,499	34,052	(16,060)	-32%
SABINE	9,240	8,381	7,448	6,747	6,056	5,375	(3,865)	-42%
SAN AUGUSTINE	7,161	6,335	5,515	4,808	4,111	3,424	(3,737)	-52%
SHELBY	22,718	21,315	19,618	17,931	16,268	14,629	(8,089)	-36%
SMITH	203,036	215,247	223,856	229,712	235,484	241,174	38,138	19%
TRINITY	2,989	2,803	2,597	2,421	2,248	2,077	(912)	-31%
TYLER	18,516	16,960	15,482	14,283	13,101	11,936	(6,580)	-36%



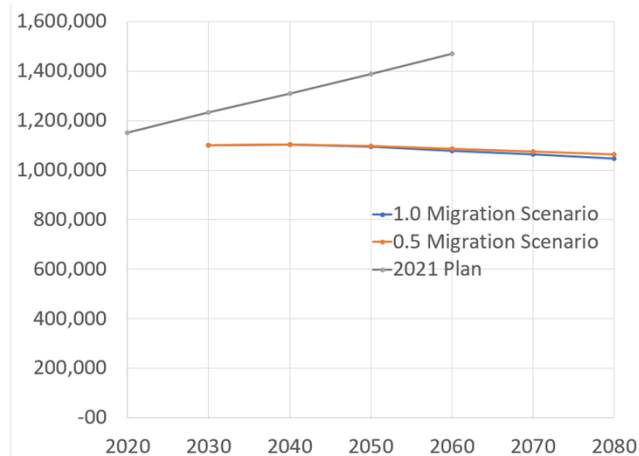
Draft Region I Population Projections

- Counties with Growing Populations
 - Angelina (1%)
 - Henderson (12%)
 - Nacogdoches (18%)
 - Polk (25%)
 - **Smith (19%, 38k)**
- Counties with Decreasing Populations
 - Anderson, Cherokee, Hardin, Houston, Jasper, **Jefferson (-7%, 18k)**, **Newton (65%, 7k)**, Orange, Panola, **Rusk (32%, 16k)**, Sabine, San Augustine, Shelby, Trinity, Tyler

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



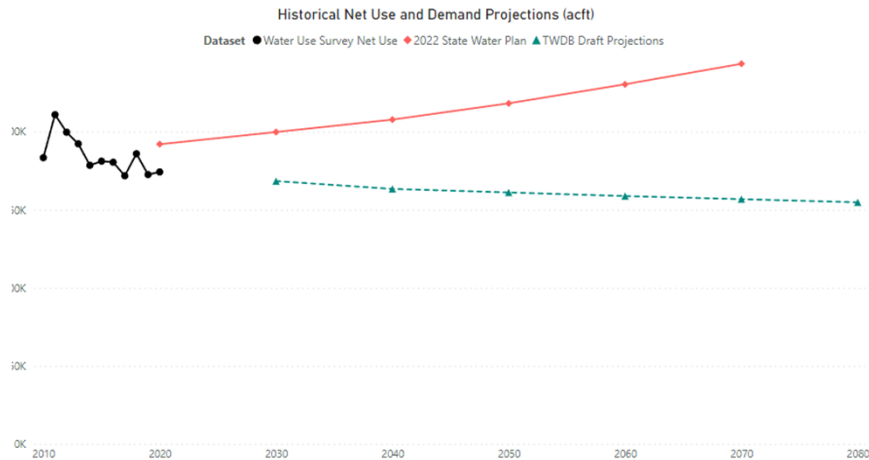
Draft Region I Population Projections



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



Draft Region I Municipal Demand Projections



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



Draft Region I Municipal Demand Projections

- Factors in Decreasing demand:
 - 2020 Census
 - 1.92% undercount in Texas
 - Per TWDB, increase in passive conservation savings compared to last round of planning
 - Decrease in historical water use over time

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



Draft Region I Municipal Demand Projections

- Criteria for Adjustment (one or more):
 - Action is currently being pursued to request a U.S. Census Bureau correction
 - Population growth rate for 2015-2020 (-0.4%) significantly different than projections (-5.0%)
- Data Requirements
 - Documentation of action with U.S. Census Bureau
 - Historical regional-total population estimates
 - Other data and evidence justifying changes to the net total regional-level population

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



Questions?



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