

NOTICE OF OPEN MEETING OF THE
SOUTH CENTRAL TEXAS
REGIONAL WATER PLANNING
POPULATION AND WATER
DEMANDS WORK GROUP

TAKE NOTICE that a meeting of the Population and Water Demands Work Group, as established by the South Central Texas Regional Water Planning Group (SCTRWPG) will be held on Wednesday, March 29, 2023, at 1:00 PM both in person and virtually. The in person meeting will be held at the San Antonio River Authority, 100 E. Guenther Street, San Antonio, TX 78204. You can attend virtually on GotoMeeting at <https://meet.goto.com/601700789>. The following subjects will be considered for discussion and/or action at said meeting.

1. Review and Discuss Non-Municipal Water Demands Data
 - a. Steam-Electric
2. Presentation by TWDB Regarding Plumbing Code Savings Projections
3. Review Released Draft Data from TWDB
 - a. Population and Municipal Water Demand Projections
4. Discussion and Appropriate Action Regarding Recommendation for Feedback to TWDB

Comments and submissions may be submitted through email to ccastillo@sariverauthority.org. Any written documentation can be sent to Tim Andruss, Chair, South Central Texas Regional Water Planning Group, c/o San Antonio River Authority, Attn: Caye Castillo, 100 E. Guenther Street, San Antonio, TX 78204. Please direct any questions to Caye Castillo at (210) 302-4258.

Agenda Item 1.a: Review and Discuss Steam-Electric Water Demands Data



RECOMMENDATION, Steam-Electric Demands (1 of 2)

*No revisions recommended by PWD Workgroup**

RECOMMENDED* 2026 Region L Water Plan Projections, Steam-Electric Demands						
County	2030	2040	2050	2060	2070	2080
ATASCOSA	7,962	7,962	7,962	7,962	7,962	7,962
BEXAR	76,539	76,539	76,539	76,539	76,539	76,539
CALDWELL	0	0	0	0	0	0
CALHOUN	37	37	37	37	37	37
COMAL	0	0	0	0	0	0
DEWITT	0	0	0	0	0	0
DIMMIT	0	0	0	0	0	0
FRIO	54	54	54	54	54	54
GOLIAD	4,994	4,994	4,994	4,994	4,994	4,994
GONZALES	0	0	0	0	0	0
TOTAL (ALL)	101,741	101,741	101,741	101,741	101,741	101,741

** New information received for Bexar and Guadalupe Counties after PWD Workgroup Meeting on 1/19/2023. PWD Workgroup will provide a recommendation at May 2023 RWPG Meeting.*



RECOMMENDATION, Steam-Electric Demands (2 of 2)

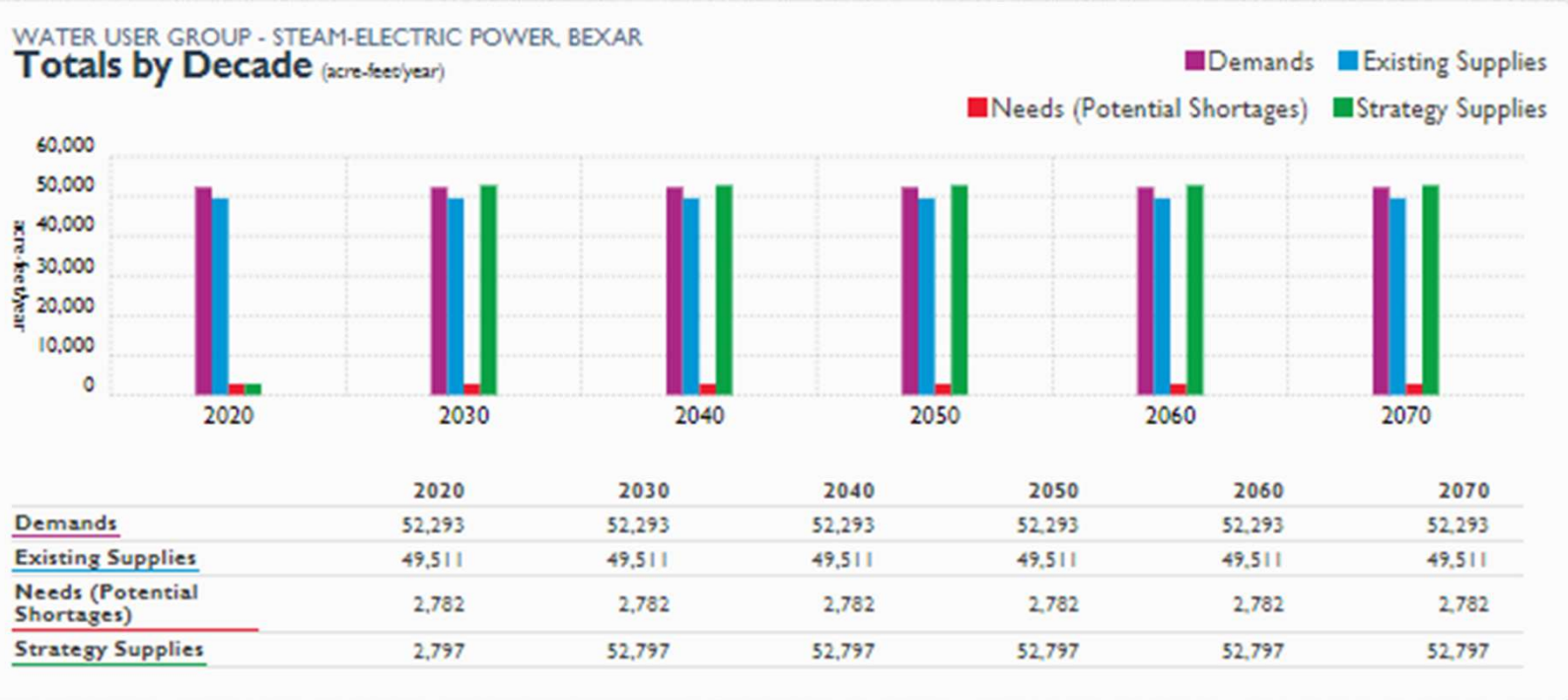
*No revisions recommended by PWD Workgroup**

RECOMMENDED* 2026 Region L Water Plan Projections, Steam-Electric Demands						
County	2030	2040	2050	2060	2070	2080
GUADALUPE	7,008	7,008	7,008	7,008	7,008	7,008
HAYS (PARTIAL)	1,949	1,949	1,949	1,949	1,949	1,949
KARNES	0	0	0	0	0	0
KENDALL	0	0	0	0	0	0
LA SALLE	0	0	0	0	0	0
MEDINA	0	0	0	0	0	0
REFUGIO	0	0	0	0	0	0
UVALDE	0	0	0	0	0	0
VICTORIA	3,198	3,198	3,198	3,198	3,198	3,198
WILSON	0	0	0	0	0	0
ZAVALA	0	0	0	0	0	0
TOTAL	101,741	101,741	101,741	101,741	101,741	101,741

** New information received for Bexar and Guadalupe Counties after PWD Workgroup Meeting on 1/19/2023. PWD Workgroup will provide a recommendation at May 2023 RWPG Meeting.*

Information for Bexar County

- CPS Energy board voted to shut down coal operations by 2029 and some gas generation from older steam units planned for retirement
- Based on the uncertainty after the next 5 years, CPS Energy requests to keep the planning projections the same as last planning cycle. (see TWDB Interactive State Water Plan data below)



Information for Bexar County

Supporting Data (AFY) from TWDB for this planning cycle:

Survey Name	Region	County	Included in 2022 SWP?	Included in 2027 SWP?	Total Net Use 2010	Total Net Use 2011	Total Net Use 2012	Total Net Use 2013	Total Net Use 2014	Total Net Use 2015	Total Net Use 2016	Total Net Use 2017	Total Net Use 2018	Total Net Use 2019
CPS ENERGY-W B TUTTLE POWER PLANT	L	BEXAR	Y	N	98	72	72	72	0	0	0	0	0	0
CPS ENERGY-LEON CREEK POWER PLANT	L	BEXAR	Y	Y	208	288	162	255	248	122	113	163	211	111
CPS ENERGY-V H BRAUNIG - ARTHUR VON ROSENBERG POWER PLANT	L	BEXAR	Y	Y	2,697	8,395	5,957	6,048	7,630	6,854	5,972	9,394	8,766	12,576
CPS ENERGY-OW SOMMERS JT DEELY PLANT JK SPRUCE	L	BEXAR	Y	Y	25,827	43,538	33,668	30,127	29,206	41,462	33,640	59,502	67,562	57,732
		Total			28,830	52,293	39,859	36,502	37,084	48,438	39,725	69,059	76,539	70,419

Consider amending Bexar County steam-electric demand from 76,539 AFY to 52,293 AFY for 2030-2080.

Information for Guadalupe County

- Amendment request last cycle to revise steam-electric demands in Guadalupe County from 7,070 AFY to 9,405 AFY (Δ 2,335 AFY)
- Two facilities in Guadalupe County – CPS Energy and Calpine
- CPS Energy requesting 5,500 AFY for their Rio Nogales facility, based on a study by HDR

Information for Guadalupe County

Supporting Data (AFY) from TWDB for this planning cycle:

Survey Name	Region	County	Included in 2022 SWP?	Included in 2027 SWP?	Total Net Use 2010	Total Net Use 2011	Total Net Use 2012	Total Net Use 2013	Total Net Use 2014	Total Net Use 2015	Total Net Use 2016	Total Net Use 2017	Total Net Use 2018	Total Net Use 2019
RIO NOGALES POWER PLANT	L	GUADALUPE	Y	Y	0	0	0	0	0	3,116	2,811	2,370	2,943	3,514
CALPINE CORP-GUADALUPE POWER PARTNERS	L	GUADALUPE	Y	Y	0	0	0	0	0	3,892	3,612	3,194	3,351	3,352
		Total			0	0	0	0	0	7,008	6,423	5,564	6,294	6,866

- Revising Rio Nogales portion of demand to 5,500 AFY gives a new County Total of **9,392 AFY**.

Consider increasing Guadalupe County steam-electric demand from 7,008 AFY to 9,392 AFY for 2030-2080.

Agenda Item 2: Presentation by TWDB Regarding Plumbing Code Savings Projections

Overview of Plumbing Code Savings Calculation Procedures Region L

**Dr. John Ellis
Katie Dahlberg**

Texas Water Development Board
3/29/2023



Goal: estimate passive savings due to changes in requirements for more water efficient appliances or fixtures

estimates for each of the 1,959 WUGS for each decade (2030-2080)



Updates from past SWP efforts:

- Updated population estimates and projections (2020 Census)
- Allow for declines in WUG population over time
- Fold in initial estimates of water savings in the commercial portion of municipal demand

- Items considered:
 - a. residential toilets, clothes washers and showers
 - b. Commercial urinals, toilets

- Items not considered: dishwashers, kitchen and bathroom faucets

Key Data

- Population projections
- Water savings for each fixture/appliance
 - a. use per minute, cycle, flush
 - b. flushes/day
 - c. min/shower
 - d. useful life
 - e. average water use prior to first standard enforcement
 - f. clothes washer loads/year (based on household size)
 - g. proportion of top and front-loading clothes washers
 - h. gender splits for employees
 - i. workdays/week
 - j. timing and magnitude for each efficiency standard

Sample gpcd savings

Fixture	pre-1995 avg use to 1995 standard	pre-1995 avg use to 2014 standard	1995 avg use to 2014 standard
showerheads ^a	13.00	NA	1.86
toilets - residential	10.5	12.1	1.6
toilets & urinals - commercial ^b	7.06	8.41	1.35

^a savings values shown assume 8 min/shower, 6.5 showers/person/week

^b savings values shown assume state-level gender employee proportions and 6 days/week use for commercial toilet and urinal use

Sample gpcd savings

appliance	key assumptions	pre-2011 average use to 2011 standard	pre-2011 average use to 2015 standard	pre-2011 average use to 2018 standard	2011 standard to 2015 standard	2011 standard to 2018 standard	2015 standard to 2018 standard
clothes washers	composite top and front loader, 75/25 percent <u>split</u> . ^a 300 cycles/ <u>year</u> ^b and statewide average household size of 2.77 people per household.	0.22	2.35	4.25	2.52	4.41	1.90
<p>^a U.S. Energy Information Administration, Appliances in U.S. homes in the South and West regions, 2020, https://www.eia.gov/consumption/residential/data/2020/hc/pdf/HC%203.8.pdf</p> <p>^b EnergyStar, Clothes Washers, https://www.energystar.gov/products/clothes_washers</p>							



4 individual spreadsheets

- Showers
- Toilets
- Clothes washers (composite top and front-loading)
- Commercial (urinals and toilets, based on employment instead of population)

General Calculation Procedures

- Design the layout of planned replacement (varies with useful life, timing of new efficiency standards, and the desired reporting year)
- Use population as the relevant measure of change: i.e., track the expected number of people with a given efficiency toilet or clothes washer
- Savings are calculated per person so tracking population with a given level of efficiency allows estimation of total expected savings
- 2 components for planned replacement:
 - a. base: pre-first efficiency standard population
 - b. growth: post-first efficiency standard growth

General Calculation Procedures

- Determine all combinations of savings parameters
- Determine expected number of people with fixtures/appliances for the various efficiency levels: includes those with older items not due for replacement yet plus the people who have fixtures/appliances scheduled for replacement prior to the reporting year
- Adjust downward if planned replacement and existing inventory population values exceeds current population
- Calculate savings for the affected population and divide by total population to determine each fixture/appliance's reduction in gpcd

General Calculation Procedures

- Repeat for each reporting decade.
- Sum over all 4 types of fixtures/appliances to determine total gpcd savings by decade
- Subtract cumulative savings by decade from base gpcd to obtain projected gpcd
- Multiply projected gpcd by projected population by decade to obtain projected municipal demand

Commercial PC Savings Calculation Approach

- Based on projected employment within each WUG
- Used NLCD commercial land class pixel counts and U.S. Census Bureau County Business Pattern (CBP) employment data to estimate year 2020 employment levels
- Needed some way to determine change in employment accompanying changes in population
- Devised a two-way response table:
 - % change in employment based upon % change in population and the WUG's population size

Projected demand and impacts of passive water efficiency savings for a sample WUG



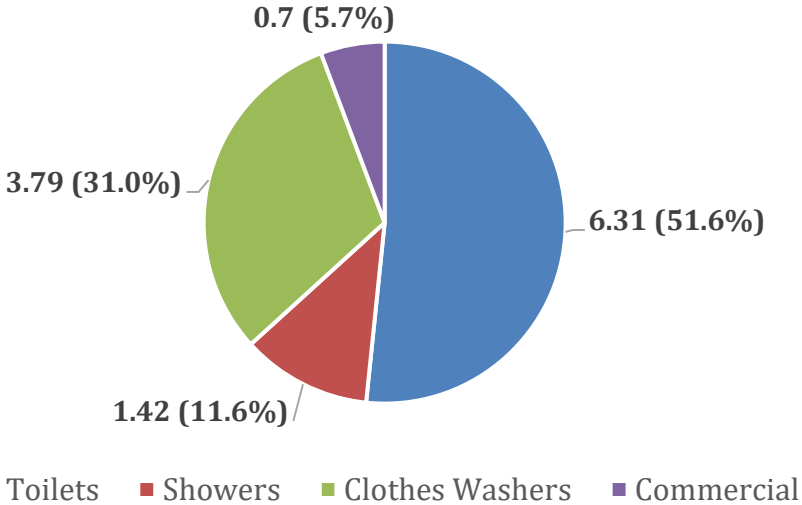
Municipal Demand Projections

Projected Demand =

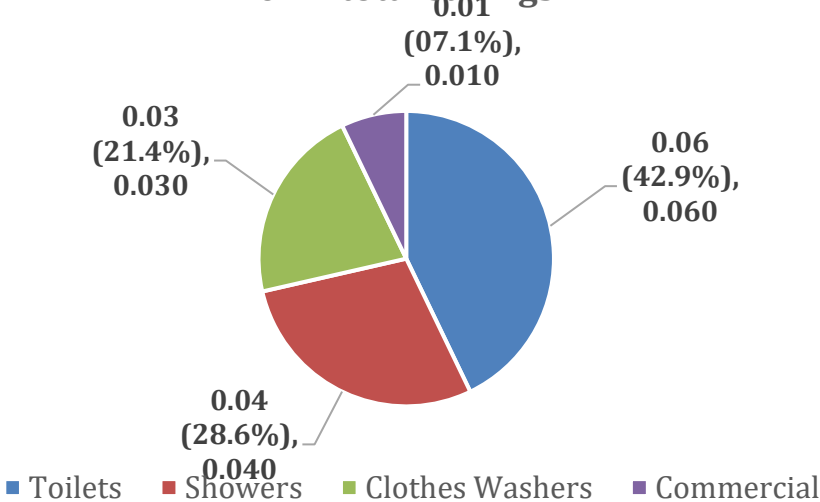
$$\text{Projected Demand} = \frac{\text{Population} * (\text{GPCD}_{\text{base}} - \text{PC Savings}) * 365}{325,851}$$

Poteet PC Savings Components

2030 Marginal GPCD savings by type,
12.22 total savings



2080 Marginal GPCD savings by type,
0.14 total savings

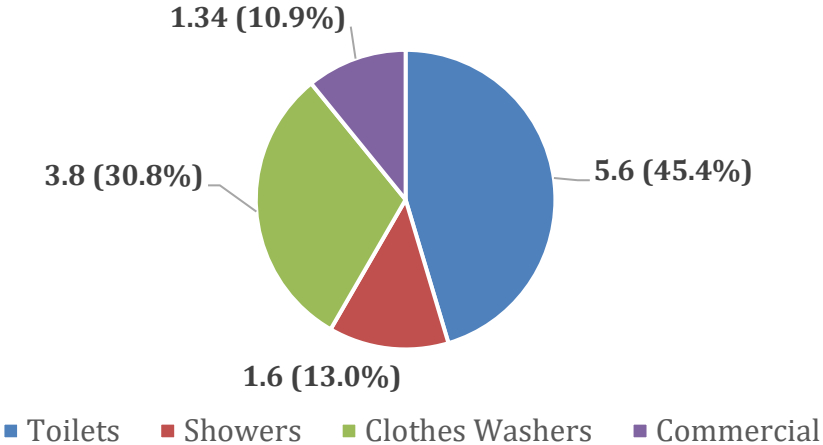


2080 savings are 1% of 2030 savings

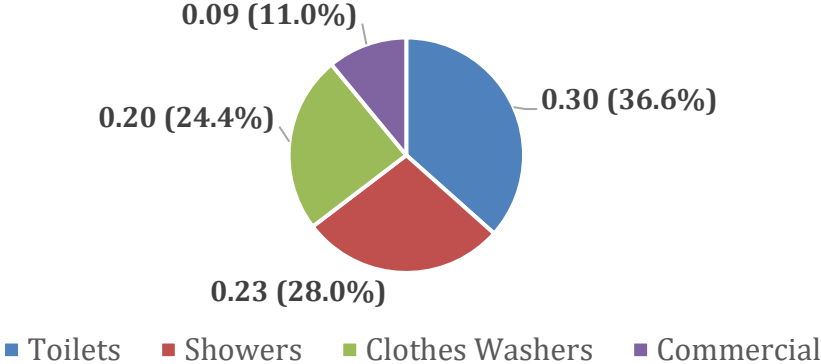
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PC Savings Components

2030 Marginal GPCD savings by type,
12.34 total savings



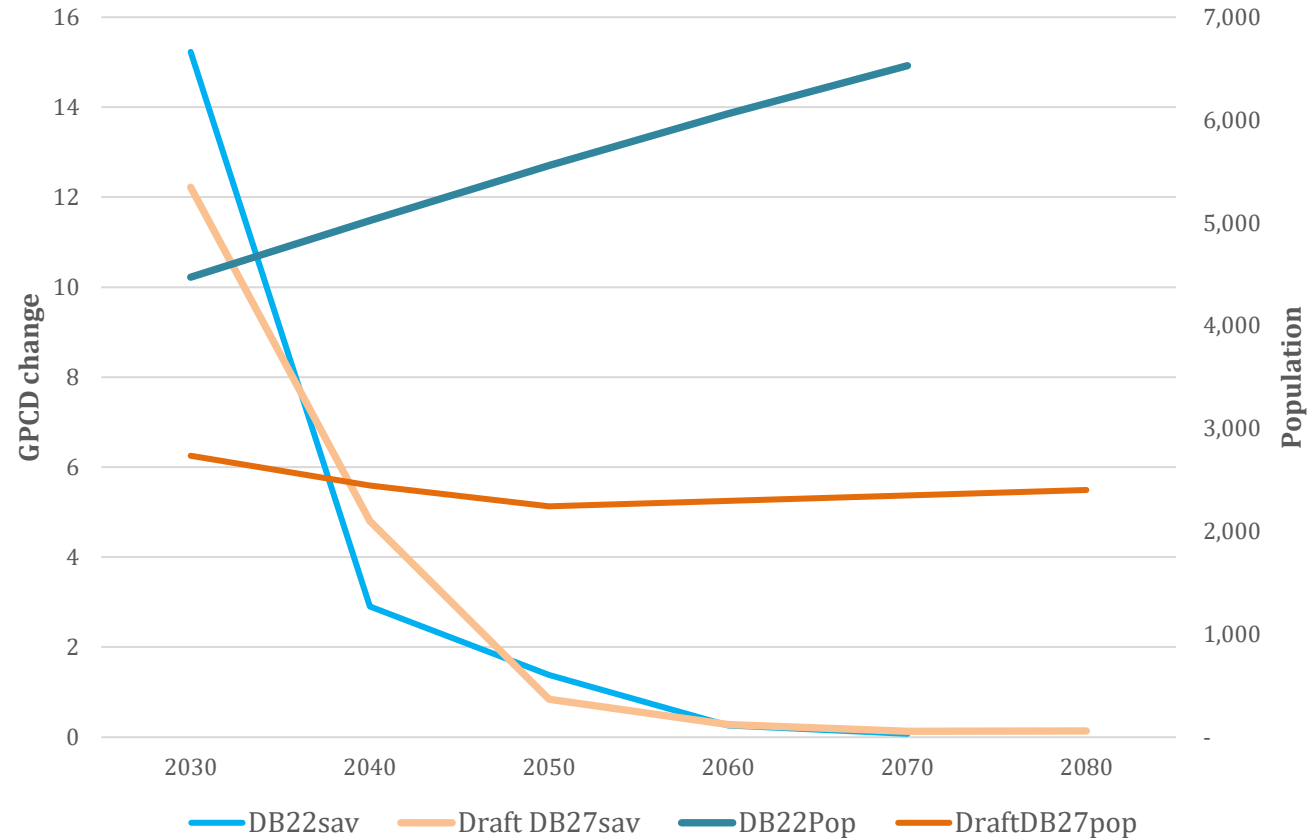
2080 Marginal GPCD savings by type,
0.82 total savings



2080 savings are 7% of 2030 savings

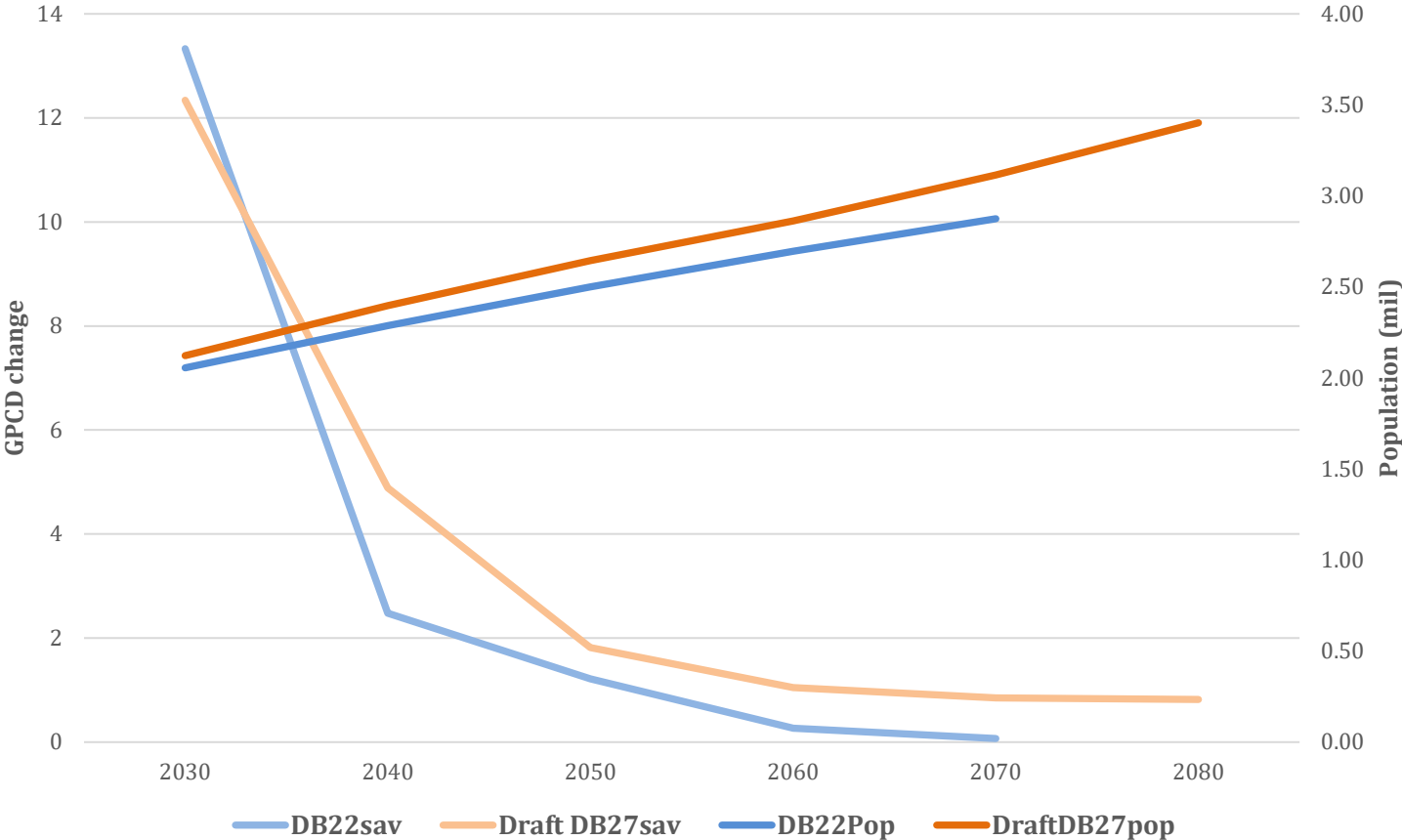
Poteet

Marginal GPCD savings and Population Comparison



SAWS

Marginal GPCD savings and Population Comparison



Contact info:

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Katie Dahlberg Manager, Projections and Socio-Economic Analysis
512-463-2440 katie.dahlberg@twdb.texas.gov

Region L Draft Plumbing Codes Savings Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario							
Split Region	County	EntityName	Baseline GPCD	PCSavings 2030	PCSavings 2040	PCSavings 2050	PCSavings 2060	PCSavings 2070	PCSavings 2080	
L	COMAL	3009 Water	248	10.22	13.77	16.24	18.11	19.90	21.52	
L	BEXAR	Air Force Village II Inc	227	14.56	20.18	21.11	21.33	21.33	21.33	
L	BEXAR	Alamo Heights	245	12.94	18.09	19.17	19.46	19.47	19.47	
K	BASTROP	Aqua WSC	148	10.20	14.41	16.49	18.13	19.63	21.01	
G	LEE	Aqua WSC	148	10.20	14.41	16.49	18.13	19.63	21.01	
L	CALDWELL	Aqua WSC	148	10.20	14.41	16.49	18.13	19.63	21.01	
K	TRAVIS	Aqua WSC	148	10.20	14.41	16.49	18.13	19.63	21.01	
L	DIMITT	Asherton	182	13.27	18.32	19.21	19.42	19.42	19.42	
L	BEXAR	Atascosa Rural WSC	114	10.96	15.49	17.15	18.22	19.10	19.97	
L	ZAVALA	Batesville WSC	153	12.00	16.33	17.35	17.52	17.52	17.52	
L	ATASCOSA	Benton City WSC	97	10.50	14.42	15.89	16.56	17.06	17.53	
L	FRIO	Benton City WSC	97	10.50	14.42	15.89	16.56	17.06	17.53	
L	MEDINA	Benton City WSC	97	10.50	14.42	15.89	16.56	17.06	17.53	
L	BEXAR	Bexar County WCID 10	193	13.23	18.69	20.51	21.58	22.45	23.28	
L	DIMITT	Big Wells	143	12.91	17.83	18.71	18.92	18.92	18.92	
L	KENDALL	Boerne	193	10.83	15.55	18.45	20.84	23.04	25.06	
L	WILSON	C Willow Water	165	11.51	15.65	17.24	18.08	18.83	19.56	
L	COMAL	Canyon Lake Water Service	113	9.37	13.52	16.19	18.49	20.58	22.44	
K	BLANCO	Canyon Lake Water Service	113	9.37	13.52	16.19	18.49	20.58	22.44	
K	TRAVIS	Canyon Lake Water Service	113	9.37	13.52	16.19	18.49	20.58	22.44	
K	HAYS	Canyon Lake Water Service	113	9.37	13.52	16.19	18.49	20.58	22.44	
L	DIMITT	Carrizo Hill WSC	156	11.48	15.02	16.39	16.66	16.83	16.99	
L	DIMITT	Carrizo Springs	243	13.62	18.90	19.87	20.11	20.11	20.11	
L	MEDINA	Castroville	264	12.65	17.61	18.67	19.09	19.32	19.56	
L	ATASCOSA	Charlotte	155	12.33	17.12	17.92	18.21	18.38	18.56	
L	GUADALUPE	Cibolo	93	10.62	14.39	16.61	18.03	19.37	20.62	
L	COMAL	Clear Water Estates Water System	1083	10.37	14.27	17.03	19.17	21.19	23.00	
L	UVALDE	Concan WSC	244	11.69	14.95	16.36	16.47	16.47	16.47	
L	BEXAR	Converse	98	11.56	15.80	16.91	17.11	17.12	17.12	
L	LA SALLE	Cotulla	280	12.76	17.62	18.46	18.66	18.66	18.66	
L	CALDWELL	County Line SUD	63	3.00	3.00	3.00	3.00	3.00	3.00	
L	HAYS	County Line SUD	63	3.00	3.00	3.00	3.00	3.00	3.00	
L	ATASCOSA	County-Other, Atascosa	116	13.87	19.13	21.32	22.20	22.41	22.41	
L	BEXAR	County-Other, Bexar	119	18.78	25.34	30.34	33.80	36.79	39.02	
L	CALDWELL	County-Other, Caldwell	107	9.51	13.59	15.03	15.57	15.66	15.66	
L	CALHOUN	County-Other, Calhoun	105	23.73	33.91	36.54	37.12	37.12	37.12	
L	COMAL	County-Other, Comal	152	12.12	16.79	18.84	20.54	22.18	23.73	
L	DEWITT	County-Other, Dewitt	123	14.13	19.34	20.50	20.77	20.77	20.77	
L	DIMITT	County-Other, Dimmit	124	17.28	23.84	25.68	26.29	26.29	26.29	
L	FRIO	County-Other, Frio	117	13.83	18.81	20.11	20.77	21.10	21.56	
L	GOLIAD	County-Other, Goliad	110	12.47	17.14	18.04	18.22	18.22	18.22	
L	GONZALES	County-Other, Gonzales	108	16.05	22.26	23.57	23.91	23.91	23.91	
L	GUADALUPE	County-Other, Guadalupe	105	15.46	21.69	24.64	26.99	29.10	31.06	
L	HAYS	County-Other, Hays	111	9.88	14.21	16.86	19.71	22.40	24.71	
K	HAYS	County-Other, Hays	111	9.88	14.21	16.86	19.71	22.40	24.71	

Region L Draft Plumbing Codes Savings Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario						
Split Region	County	EntityName	Baseline GPCD	PCSavings 2030	PCSavings 2040	PCSavings 2050	PCSavings 2060	PCSavings 2070	PCSavings 2080
L	KARNES	County-Other, Karnes	127	14.25	19.39	21.13	21.86	22.34	22.88
L	KENDALL	County-Other, Kendall	110	11.52	15.91	17.52	18.64	19.68	20.71
L	LA SALLE	County-Other, La Salle	104	13.93	18.76	20.24	20.52	20.52	20.52
L	MEDINA	County-Other, Medina	116	11.28	15.86	17.31	18.03	18.42	18.90
L	REFUGIO	County-Other, Refugio	107	14.02	19.40	20.47	20.72	20.72	20.72
L	UVALDE	County-Other, Uvalde	128	15.17	21.10	22.31	22.59	22.59	22.59
L	VICTORIA	County-Other, Victoria	105	13.17	18.36	19.55	19.88	19.90	19.90
L	WILSON	County-Other, Wilson	107	11.87	15.95	17.21	17.46	17.48	17.48
L	ZAVALA	County-Other, Zavala	149	14.19	19.69	20.82	21.03	21.03	21.03
K	TRAVIS	Creedmoor-Maha WSC	100	12.73	17.92	20.26	21.72	23.02	24.28
L	CALDWELL	Creedmoor-Maha WSC	100	12.73	17.92	20.26	21.72	23.02	24.28
K	BASTROP	Creedmoor-Maha WSC	100	12.73	17.92	20.26	21.72	23.02	24.28
L	HAYS	Creedmoor-Maha WSC	100	12.73	17.92	20.26	21.72	23.02	24.28
L	ZAVALA	Crystal City	189	13.01	18.00	18.88	19.08	19.08	19.08
L	COMAL	Crystal Clear SUD	129	11.50	16.08	18.04	19.58	21.02	22.39
L	GUADALUPE	Crystal Clear SUD	129	11.50	16.08	18.04	19.58	21.02	22.39
L	HAYS	Crystal Clear SUD	129	11.50	16.08	18.04	19.58	21.02	22.39
L	DEWITT	Cuero	238	13.15	18.24	19.16	19.38	19.38	19.38
L	MEDINA	Devine	132	12.43	17.33	18.30	18.65	18.83	19.04
L	FRIO	Dilley	212	11.14	15.90	17.75	18.48	18.74	18.86
L	BEXAR	East Central SUD	127	12.07	16.87	18.65	19.74	20.62	21.45
L	GUADALUPE	East Central SUD	127	12.07	16.87	18.65	19.74	20.62	21.45
L	WILSON	East Central SUD	127	12.07	16.87	18.65	19.74	20.62	21.45
L	MEDINA	East Medina County SUD	81	10.96	15.04	16.23	16.69	16.98	17.26
L	ATASCOSA	El Oso WSC	183	13.26	18.50	19.95	20.80	21.38	22.00
L	KARNES	El Oso WSC	183	13.26	18.50	19.95	20.80	21.38	22.00
L	WILSON	El Oso WSC	183	13.26	18.50	19.95	20.80	21.38	22.00
N	BEE	El Oso WSC	183	13.26	18.50	19.95	20.80	21.38	22.00
N	LIVE OAK	El Oso WSC	183	13.26	18.50	19.95	20.80	21.38	22.00
L	BEXAR	Elmendorf	130	12.20	16.75	18.18	18.91	19.45	20.01
L	LA SALLE	Encinal WSC	187	11.77	15.97	17.17	17.55	17.77	17.99
L	BEXAR	Fair Oaks Ranch	237	10.30	14.58	16.84	18.70	20.42	22.00
L	COMAL	Fair Oaks Ranch	237	10.30	14.58	16.84	18.70	20.42	22.00
L	KENDALL	Fair Oaks Ranch	237	10.30	14.58	16.84	18.70	20.42	22.00
L	KARNES	Falls City	201	12.23	17.15	18.26	18.86	19.34	19.84
K	FAYETTE	Fayette WSC	126	12.35	17.04	18.32	19.19	19.81	20.42
L	GONZALES	Fayette WSC	126	12.35	17.04	18.32	19.19	19.81	20.42
K	BASTROP	Fayette WSC	126	12.35	17.04	18.32	19.19	19.81	20.42
L	WILSON	Floresville	213	12.19	17.16	18.43	19.06	19.50	19.96
L	BEXAR	Fort Sam Houston	1895	14.56	20.04	21.67	21.96	21.98	22.00
L	COMAL	Garden Ridge	315	9.81	13.97	16.59	18.81	20.86	22.69
K	HAYS	Goforth SUD	101	8.96	13.30	16.30	18.91	21.27	23.33
L	CALDWELL	Goforth SUD	101	8.96	13.30	16.30	18.91	21.27	23.33
L	HAYS	Goforth SUD	101	8.96	13.30	16.30	18.91	21.27	23.33
K	TRAVIS	Goforth SUD	101	8.96	13.30	16.30	18.91	21.27	23.33
L	GOLIAD	Goliad	180	13.07	18.17	19.03	19.23	19.23	19.23

Region L Draft Plumbing Codes Savings Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario							
Split Region	County	EntityName	Baseline GPCD	PCSavings 2030	PCSavings 2040	PCSavings 2050	PCSavings 2060	PCSavings 2070	PCSavings 2080	
L	GONZALES	Gonzales	222	13.04	18.12	19.05	19.26	19.26	19.26	
L	CALDWELL	Gonzales County WSC	244	13.12	17.98	19.03	19.27	19.27	19.27	
L	DEWITT	Gonzales County WSC	244	13.12	17.98	19.03	19.27	19.27	19.27	
L	GONZALES	Gonzales County WSC	244	13.12	17.98	19.03	19.27	19.27	19.27	
L	GUADALUPE	Gonzales County WSC	244	13.12	17.98	19.03	19.27	19.27	19.27	
L	BEXAR	Green Valley SUD	103	9.66	13.80	16.15	18.01	19.70	21.26	
L	COMAL	Green Valley SUD	103	9.66	13.80	16.15	18.01	19.70	21.26	
L	GUADALUPE	Green Valley SUD	103	9.66	13.80	16.15	18.01	19.70	21.26	
L	CALHOUN	Guadalupe-Blanco River Authority	73	10.55	13.00	13.00	13.00	13.00	13.00	
L	COMAL	Guadalupe-Blanco River Authority	73	10.55	13.00	13.00	13.00	13.00	13.00	
L	KENDALL	Guadalupe-Blanco River Authority	73	10.55	13.00	13.00	13.00	13.00	13.00	
L	MEDINA	Hondo	190	12.83	17.75	18.73	18.97	19.00	19.04	
L	ATASCOSA	Jourdanton	190	12.05	16.79	18.09	18.80	19.36	19.93	
L	KARNES	Karnes City	168	11.66	15.79	17.09	17.56	17.96	18.38	
L	KENDALL	Kendall County WCID 1	86	12.77	18.49	21.35	23.72	26.00	26.00	
L	KENDALL	Kendall West Utility	111	10.41	14.21	16.68	18.46	20.17	21.75	
L	KARNES	Kenedy	352	12.03	16.89	18.05	18.69	19.22	19.77	
L	BEXAR	Kirby	92	12.08	17.03	18.28	18.62	18.65	18.65	
L	UVALDE	Knippa WSC	187	13.74	19.21	20.24	20.47	20.47	20.47	
L	COMAL	KT Water Development	304	8.56	12.51	15.33	17.74	19.91	21.81	
L	HAYS	Kyle	91	10.07	14.23	16.96	18.06	18.39	18.39	
L	BEXAR	La Coste	94	12.61	17.54	18.43	18.73	18.85	19.00	
L	MEDINA	La Coste	94	12.61	17.54	18.43	18.73	18.85	19.00	
L	WILSON	La Vernia	190	13.68	18.60	20.00	20.20	20.20	20.20	
L	BEXAR	Lackland Air Force Base	96	12.98	17.97	19.32	19.64	19.65	19.66	
L	BEXAR	Leon Valley	153	12.89	18.55	21.14	23.32	25.45	27.55	
L	BEXAR	Live Oak	159	14.28	19.68	20.97	21.30	21.31	21.32	
L	CALDWELL	Lockhart	129	11.67	16.36	18.08	19.32	20.46	21.57	
L	ZAVALA	Loma Alta Chula Vista Water System	287	11.88	16.06	17.07	17.22	17.22	17.22	
L	CALDWELL	Luling	128	12.66	17.67	18.77	19.24	19.57	19.89	
L	GONZALES	Luling	128	12.66	17.67	18.77	19.24	19.57	19.89	
L	ATASCOSA	Lytle	174	12.20	17.02	18.37	19.07	19.62	20.18	
L	BEXAR	Lytle	174	12.20	17.02	18.37	19.07	19.62	20.18	
L	MEDINA	Lytle	174	12.20	17.02	18.37	19.07	19.62	20.18	
L	GUADALUPE	Marion	113	12.29	17.32	18.60	19.32	19.90	20.50	
L	CALDWELL	Martindale WSC	96	10.70	15.03	16.76	17.94	19.00	20.02	
L	GUADALUPE	Martindale WSC	96	10.70	15.03	16.76	17.94	19.00	20.02	
L	CALDWELL	Maxwell SUD	92	9.93	14.35	16.71	18.82	20.76	22.52	
L	HAYS	Maxwell SUD	92	9.93	14.35	16.71	18.82	20.76	22.52	
L	ATASCOSA	McCoy WSC	111	12.73	17.54	18.97	19.70	20.27	20.87	
L	WILSON	McCoy WSC	111	12.73	17.54	18.97	19.70	20.27	20.87	
N	LIVE OAK	McCoy WSC	111	12.73	17.54	18.97	19.70	20.27	20.87	

Region L Draft Plumbing Codes Savings Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario							
Split Region	County	EntityName	Baseline GPCD	PCSavings 2030	PCSavings 2040	PCSavings 2050	PCSavings 2060	PCSavings 2070	PCSavings 2080	
L	MEDINA	Medina County WCID 2	177	12.30	16.83	17.86	18.09	18.14	18.20	
L	MEDINA	Medina River West WSC	91	10.10	13.15	14.65	15.01	15.27	15.53	
L	FRIO	Moore WSC	174	11.20	15.57	17.20	17.79	18.01	18.16	
L	MEDINA	Natalia	154	12.12	16.90	17.88	18.29	18.41	18.43	
L	COMAL	New Braunfels	183	10.05	14.55	17.33	19.70	21.87	23.82	
L	GUADALUPE	New Braunfels	183	10.05	14.55	17.33	19.70	21.87	23.82	
L	GONZALES	Nixon	140	12.36	17.08	17.97	18.16	18.16	18.16	
L	BEXAR	Oak Hills WSC	150	11.06	15.26	17.14	18.47	19.72	20.93	
L	WILSON	Oak Hills WSC	150	11.06	15.26	17.14	18.47	19.72	20.93	
L	FRIO	Pearsall	178	12.40	17.37	19.02	19.59	19.82	19.99	
L	WILSON	Picosa WSC	86	10.10	14.06	15.64	16.64	17.50	18.34	
L	ATASCOSA	Pleasanton	196	12.22	17.17	18.67	19.69	20.57	21.41	
L	CALHOUN	Point Comfort	94	15.68	21.96	23.25	23.53	23.53	23.53	
L	CALDWELL	Polonia WSC	112	10.11	13.83	15.68	17.08	18.40	19.68	
K	BASTROP	Polonia WSC	112	10.11	13.83	15.68	17.08	18.40	19.68	
L	CALHOUN	Port Lavaca	126	13.31	18.43	19.38	19.59	19.59	19.59	
L	CALHOUN	Port Oconnor Improvement District	70	10.00	10.00	10.00	10.00	10.00	10.00	
L	ATASCOSA	Poteet	111	12.22	17.02	17.86	18.14	18.27	18.41	
L	WILSON	Poth	144	13.11	18.33	19.23	19.46	19.46	19.46	
L	VICTORIA	Quail Creek MUD	105	14.59	20.48	21.86	22.20	22.21	22.21	
L	BEXAR	Randolph Air Force Base	60	0.00	0.00	0.00	0.00	0.00	0.00	
L	REFUGIO	Refugio	171	14.01	19.46	20.48	20.72	20.72	20.72	
L	KARNES	Runge	183	11.70	16.36	17.40	17.96	18.42	18.91	
L	WILSON	S S WSC	109	10.27	14.15	15.80	16.81	17.69	18.57	
L	UVALDE	Sabinal	215	13.34	18.53	19.49	19.70	19.70	19.70	
L	ATASCOSA	San Antonio Water System	119	12.34	17.23	19.05	20.10	20.95	21.77	
L	BEXAR	San Antonio Water System	119	12.34	17.23	19.05	20.10	20.95	21.77	
L	COMAL	San Antonio Water System	119	12.34	17.23	19.05	20.10	20.95	21.77	
L	MEDINA	San Antonio Water System	119	12.34	17.23	19.05	20.10	20.95	21.77	
L	CALDWELL	San Marcos	138	10.76	15.60	18.59	21.20	23.61	25.76	
L	HAYS	San Marcos	138	10.76	15.60	18.59	21.20	23.61	25.76	
L	BEXAR	Schertz	145	11.35	15.97	18.24	19.78	21.15	22.45	
L	COMAL	Schertz	145	11.35	15.97	18.24	19.78	21.15	22.45	
L	GUADALUPE	Schertz	145	11.35	15.97	18.24	19.78	21.15	22.45	
L	CALHOUN	Seadrift	150	13.41	18.54	19.45	19.66	19.66	19.66	
L	GUADALUPE	Seguin	139	12.51	17.57	19.00	19.83	20.52	21.22	
L	BEXAR	Selma	148	11.00	15.56	17.96	19.51	20.83	22.09	
L	COMAL	Selma	148	11.00	15.56	17.96	19.51	20.83	22.09	
L	GUADALUPE	Selma	148	11.00	15.56	17.96	19.51	20.83	22.09	
L	BEXAR	Shavano Park	283	11.77	16.49	17.99	18.90	19.67	20.44	
L	GONZALES	Smiley	181	12.72	17.28	18.26	18.42	18.42	18.42	
L	HAYS	South Buda WCID 1	142	9.44	14.05	17.45	20.40	23.02	25.28	
L	GUADALUPE	Springs Hill WSC	79	10.93	15.45	17.48	18.96	19.00	19.00	
L	WILSON	Springs Hill WSC	79	10.93	15.45	17.48	18.96	19.00	19.00	
L	WILSON	Stockdale	189	12.31	17.18	18.14	18.46	18.59	18.73	

Region L Draft Plumbing Codes Savings Projections

WUG Info			Draft Projections (DB27) based on 1.0 scenario							
Split Region	County	EntityName	Baseline GPCD	PCSavings 2030	PCSavings 2040	PCSavings 2050	PCSavings 2060	PCSavings 2070	PCSavings 2080	
L	KARNES	Sunko WSC	146	10.99	15.23	16.72	17.56	18.26	18.97	
L	WILSON	Sunko WSC	146	10.99	15.23	16.72	17.56	18.26	18.97	
L	HAYS	Texas State University	171	10.73	14.84	15.73	15.91	15.91	15.91	
L	BEXAR	The Oaks WSC	157	11.99	16.03	17.85	18.71	19.50	20.28	
L	KARNES	Three Oaks WSC	223	12.72	17.70	19.57	20.61	21.43	22.24	
L	WILSON	Three Oaks WSC	223	12.72	17.70	19.57	20.61	21.43	22.24	
L	CALDWELL	Tri Community WSC	113	11.50	15.69	16.87	17.34	17.71	18.09	
L	GUADALUPE	Tri Community WSC	113	11.50	15.69	16.87	17.34	17.71	18.09	
L	BEXAR	Universal City	135	13.17	18.13	19.50	19.82	19.88	19.92	
L	GUADALUPE	Universal City	135	13.17	18.13	19.50	19.82	19.88	19.92	
L	UVALDE	Uvalde	211	13.20	18.41	19.37	19.58	19.58	19.58	
L	VICTORIA	Victoria	226	13.70	19.10	20.19	20.45	20.45	20.45	
L	VICTORIA	Victoria County WCID 1	98	12.34	17.12	18.05	18.28	18.29	18.29	
L	MEDINA	Ville Dalsace Water Supply	246	11.61	15.13	16.91	17.44	17.79	18.14	
L	GONZALES	Waelder	154	12.67	17.28	18.28	18.45	18.45	18.45	
L	BEXAR	Water Services	145	12.36	16.83	18.21	18.84	19.36	19.91	
L	COMAL	Water Services	145	12.36	16.83	18.21	18.84	19.36	19.91	
L	GUADALUPE	Water Services	145	12.36	16.83	18.21	18.84	19.36	19.91	
L	KENDALL	Water Services	145	12.36	16.83	18.21	18.84	19.36	19.91	
L	MEDINA	West Medina WSC	185	13.42	18.58	19.80	20.22	20.50	20.62	
L	HAYS	Wimberley WSC	104	10.49	15.31	18.18	20.70	23.02	25.08	
L	UVALDE	Windmill WSC	197	11.81	16.18	17.09	17.25	17.25	17.25	
L	COMAL	Wingert Water Systems	180	11.25	15.29	17.11	17.79	18.01	18.03	
L	REFUGIO	Woodsboro	147	13.18	18.26	19.18	19.39	19.39	19.39	
L	MEDINA	Yancey WSC	101	11.42	14.85	16.46	16.82	17.10	17.38	
L	DEWITT	Yoakum	160	13.38	18.63	19.78	20.22	20.45	20.66	
P	LAVACA	Yoakum	160	13.38	18.63	19.78	20.22	20.45	20.66	
L	DEWITT	Yorktown	158	13.46	18.64	19.55	19.76	19.76	19.76	
L	ZAVALA	Zavala County WCID 1	256	12.66	17.35	18.32	18.50	18.50	18.50	

**Agenda Item 3.a:
Review Released Draft Population and
Municipal Demand Projection Data from
TWDB**

TWDB Municipal WUG Dashboard

- <https://www.twdb.texas.gov/waterplanning/data/projects/2027/municipal.asp>



Draft Municipal Water User Group (WUG) List:

Definition of WUG

Water User Group (WUG)--Identified user or group of users for which Water Demands and Existing Water Supplies have been identified and analyzed and plans developed to meet Water Needs.

For the municipal use category, these include:

- (A) Privately-owned utilities that provide an average of more than 100 acre-feet per year for municipal use for all owned water systems;
- (B) Water systems serving institutions or facilities owned by the state or federal government that provide more than 100 acre-feet per year for municipal use;
- (C) All other Retail Public Utilities not covered in subparagraphs (A) and (B) of this paragraph that provide more than 100 acre-feet per year for municipal use;
- (D) Collective Reporting Units, or groups of Retail Public Utilities that have a common association and are requested for inclusion by the RWPG;
- (E) Municipal and domestic water use, referred to as County-Other, not included in subparagraphs (A) - (D) of this paragraph

[Texas Administrative Code 31 TAC § 357.10\(43\)](#)

Draft Municipal WUG List: TWDB Methodology

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

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,
 - Additional County-level population projections based on 0.5 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:

- 2026 draft projections are derived from the 2020 U.S. Census.
- These represent permanent residents, not seasonal or transient populations.
- Texas Demographic Center (TDC) developed **county-level projections** using **migration rates between the 2010 and 2020 Census** to project future growth.
- Texas Water Development Board (TWDB) developed **WUG-level population** and water demand projections using the **1.0 migration scenario**.
- RWPGs can consider the 0.5 migration scenario if more appropriate.
- For the 2026 Regional Water Plans (RWPs), draft county population projections being provided to the RWPGs **followed the trends**, without adjustment, as projected by the TDC, **including population declines**.

Region L County Populations by Scenario

Region	County	1.0 migration scenario (WUGs projected using this scenario)						0.5 migration scenario					
		2030	2040	2050	2060	2070	2080	2030	2040	2050	2060	2070	2080
L	ATASCOSA	53,324	57,374	61,473	64,960	68,952	73,522	51,727	54,132	56,203	57,491	58,854	60,296
L	BEXAR	2,302,829	2,599,727	2,865,834	3,102,720	3,373,931	3,684,440	2,211,656	2,387,174	2,524,414	2,630,194	2,742,102	2,860,493
L	CALDWELL	53,749	61,689	69,133	76,291	84,486	93,868	50,343	54,283	57,303	59,889	62,625	65,520
L	CALHOUN	18,515	16,791	14,926	13,162	11,142	8,829	19,449	18,619	17,599	16,571	15,483	14,332
L	COMAL	226,709	315,640	434,242	584,380	756,273	953,073	190,748	222,521	256,086	290,856	327,640	366,555
L	DEWITT	19,717	19,552	19,234	18,759	18,215	17,592	19,716	19,687	19,565	19,482	19,394	19,301
L	DIMITT	7,341	6,303	5,340	4,484	3,504	2,382	8,175	7,818	7,383	6,983	6,560	6,112
L	FRIIO	19,512	20,540	21,269	21,643	22,071	22,561	19,446	20,379	21,083	21,592	22,130	22,699
L	GOLIAD	6,803	6,648	6,559	6,454	6,334	6,197	6,769	6,592	6,394	6,264	6,126	5,980
L	GONZALES	19,204	18,674	17,796	16,865	15,799	14,579	19,716	19,697	19,399	19,064	18,710	18,335
L	GUADALUPE	216,582	268,305	326,154	387,211	457,115	537,148	195,808	219,232	241,021	259,920	279,914	301,066
L	HAYS	260,714	376,095	528,035	734,262	970,372	1,240,694	221,648	271,336	322,357	379,538	440,032	504,031
L	KARNES	15,357	16,052	16,739	17,527	18,429	19,462	15,206	15,722	16,182	16,751	17,353	17,990
L	KENDALL	56,306	70,896	89,665	111,448	136,387	164,940	49,191	54,496	60,143	65,422	71,007	76,916
L	LA SALLE	6,645	6,586	6,319	5,926	5,476	4,961	6,723	6,766	6,690	6,529	6,359	6,179
L	MEDINA	54,536	57,772	60,148	61,719	63,518	65,578	52,700	54,147	54,761	54,852	54,948	55,050
L	REFUGIO	6,283	5,820	5,352	4,897	4,376	3,780	6,489	6,243	5,992	5,799	5,595	5,379
L	UVALDE	22,571	20,698	18,741	16,822	14,625	12,110	24,095	23,623	22,929	22,142	21,309	20,428
L	VICTORIA	93,954	96,082	96,608	96,168	95,664	95,087	93,984	95,975	96,635	96,664	96,695	96,728
L	WILSON	55,858	61,941	67,968	73,304	79,413	86,407	52,712	55,297	57,252	58,451	59,719	61,060
L	ZAVALA	8,595	7,590	6,649	5,747	4,714	3,531	9,480	9,232	8,858	8,472	8,064	7,632
Region L Total		3,525,104	4,110,775	4,738,184	5,424,749	6,210,796	7,110,741	3,325,781	3,622,971	3,878,249	4,102,926	4,340,619	4,592,082

0.5 scenario is higher than 1.0

[See handout](#)

WUG Population Projection Methodology

- The methods of allocating future populations from the county total to the sub-county (WUG) areas include:
 - share of growth: applying the WUG's historical (2010 to 2020) share of the region-county's growth to future growth,
 - share of population: applying the WUG's 2020 share of the region-county's 2020 population to the region-county's projected population each decade, and
 - constant population: applied to military bases, universities, and other WUGs that are primarily group quarter population. Also, any WUGs that indicated buildout in the 2021 RWPs were held constant at or near their buildout population from the previous planning cycle.
- If the WUG projected growth rate was not similar to either the WUG's historical growth rate or the region-county growth rate, then the share of population method may have been used.

[See Handout of WUG Projections](#)

WUG Municipal Demand Methodology

Municipal water demand projections are a function of population, baseline GPCD (GPCD_{base}), and projected plumbing code savings.

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

[See Handout of WUG Projections](#)

WUG Surveys – Projections Feedback

- Surveys were emailed to each Municipal WUG on March 8th with their population and municipal demand projections to review
- WUGs were asked to respond by April 7th with either:
 - Their projections look reasonable
 - They are interested in revisions and have documentation to support a change
- As of March 23rd, 28 WUGs have responded
- We will be reaching out to those interested in revisions to get their details and supporting data

Feedback from WUGs (as of 3/23/2023)

Projections appear reasonable (18)

- 3009 Water Company
- Ville D 'Alsace Water Supply
- Gonzales
- Converse
- El Oso WSC
- Tri-Community Water
- Bexar County WCID 10
- Schertz
- Yoakum
- Karnes County-Other
- Poteet
- Smiley
- Stockdale
- Natalia
- McCoy Water Corp
- Universal City
- Windmill WSC
- Gonzales County WSC

Revisions requested (10)

- Texas State University
- Leon Valley
- S S Water Supply Corporation
- La Vernia
- SAWS
- Castroville
- Live Oak Water System
- New Braunfels Utilities
- Concan WSC
- Lockhart

**Agenda Item 4:
Discussion and Appropriate Action
Regarding Recommendation for Feedback to
TWDB**

Consider Action on Steam-Electric Demand Recommendation

- Consider action on recommendation to RWPG related to revisions to Steam-Electric demand projections in Bexar and Guadalupe counties.

Consider Action on Population and Municipal Demand Recommendation

- 0.5/1.0 Migration Scenario

Discussion.

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

Region L County Populations by Migration Scenario

Region	County	1.0 migration scenario (WUGs projected using this scenario)						0.5 migration scenario					
		2030	2040	2050	2060	2070	2080	2030	2040	2050	2060	2070	2080
L	ATASCOSA	53,324	57,374	61,473	64,960	68,952	73,522	51,727	54,132	56,203	57,491	58,854	60,296
L	BEXAR	2,302,829	2,599,727	2,865,834	3,102,720	3,373,931	3,684,440	2,211,656	2,387,174	2,524,414	2,630,194	2,742,102	2,860,493
L	CALDWELL	53,749	61,689	69,133	76,291	84,486	93,868	50,343	54,283	57,303	59,889	62,625	65,520
L	CALHOUN	18,515	16,791	14,926	13,162	11,142	8,829	19,449	18,619	17,599	16,571	15,483	14,332
L	COMAL	226,709	315,640	434,242	584,380	756,273	953,073	190,748	222,521	256,086	290,856	327,640	366,555
L	DEWITT	19,717	19,552	19,234	18,759	18,215	17,592	19,716	19,687	19,565	19,482	19,394	19,301
L	DIMITT	7,341	6,303	5,340	4,484	3,504	2,382	8,175	7,818	7,383	6,983	6,560	6,112
L	FRIIO	19,512	20,540	21,269	21,643	22,071	22,561	19,446	20,379	21,083	21,592	22,130	22,699
L	GOLIAD	6,803	6,648	6,559	6,454	6,334	6,197	6,769	6,592	6,394	6,264	6,126	5,980
L	GONZALES	19,204	18,674	17,796	16,865	15,799	14,579	19,716	19,697	19,399	19,064	18,710	18,335
L	GUADALUPE	216,582	268,305	326,154	387,211	457,115	537,148	195,808	219,232	241,021	259,920	279,914	301,066
L	HAYS	260,714	376,095	528,035	734,262	970,372	1,240,694	221,648	271,336	322,357	379,538	440,032	504,031
L	KARNES	15,357	16,052	16,739	17,527	18,429	19,462	15,206	15,722	16,182	16,751	17,353	17,990
L	KENDALL	56,306	70,896	89,665	111,448	136,387	164,940	49,191	54,496	60,143	65,422	71,007	76,916
L	LA SALLE	6,645	6,586	6,319	5,926	5,476	4,961	6,723	6,766	6,690	6,529	6,359	6,179
L	MEDINA	54,536	57,772	60,148	61,719	63,518	65,578	52,700	54,147	54,761	54,852	54,948	55,050
L	REFUGIO	6,283	5,820	5,352	4,897	4,376	3,780	6,489	6,243	5,992	5,799	5,595	5,379
L	UVALDE	22,571	20,698	18,741	16,822	14,625	12,110	24,095	23,623	22,929	22,142	21,309	20,428
L	VICTORIA	93,954	96,082	96,608	96,168	95,664	95,087	93,984	95,975	96,635	96,664	96,695	96,728
L	WILSON	55,858	61,941	67,968	73,304	79,413	86,407	52,712	55,297	57,252	58,451	59,719	61,060
L	ZAVALA	8,595	7,590	6,649	5,747	4,714	3,531	9,480	9,232	8,858	8,472	8,064	7,632
Region L Total		3,525,104	4,110,775	4,738,184	5,424,749	6,210,796	7,110,741	3,325,781	3,622,971	3,878,249	4,102,926	4,340,619	4,592,082

0.5 scenario is higher than 1.0

Region L Draft WUG Population, GPCD, and Demand 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	Baseline GPCD	2030 Demand	2040 Demand	2050 Demand	2060 Demand	2070 Demand	2080 Demand
L	COMAL	3009 Water	1,465	1,877	2,425	3,119	3,915	4,827	248	390	492	630	803	1,000	1,225
L	BEXAR	Air Force Village II Inc	536	536	536	536	536	536	227	128	124	124	123	123	123
L	BEXAR	Alamo Heights	7,806	8,334	8,400	8,400	8,400	8,400	245	2,029	2,118	2,125	2,122	2,122	2,122
K	BASTROP	Aqua WSC	79,444	98,723	121,570	147,521	176,930	210,260	148	12,263	14,773	17,908	21,460	25,441	29,909
G	LEE	Aqua WSC	1,614	1,676	1,741	1,808	1,878	1,951	148	249	251	256	263	270	278
L	CALDWELL	Aqua WSC	1,143	1,319	1,485	1,643	1,825	2,032	148	176	197	219	239	262	289
K	TRAVIS	Aqua WSC	8,397	9,970	11,335	12,696	14,240	15,990	148	1,296	1,492	1,670	1,847	2,048	2,275
L	DIMMIT	Asherton	614	526	444	372	288	194	182	116	96	81	68	52	35
L	BEXAR	Atascosa Rural WSC	13,378	15,582	17,558	19,278	21,252	23,517	114	1,544	1,719	1,905	2,068	2,259	2,477
L	ZAVALA	Batesville WSC	780	688	602	520	426	318	153	123	105	91	79	65	48
L	ATASCOSA	Benton City WSC	14,426	16,133	17,752	18,851	20,120	21,580	97	1,398	1,492	1,613	1,699	1,802	1,921
L	FRIO	Benton City WSC	1,287	1,693	1,974	1,990	2,008	2,028	97	125	157	179	179	180	181
L	MEDINA	Benton City WSC	5,897	6,266	6,536	6,710	6,910	7,139	97	571	580	594	605	619	635
L	BEXAR	Bexar County WCID 10	6,201	7,001	7,717	8,355	9,086	9,922	193	1,249	1,367	1,491	1,604	1,736	1,886
L	DIMMIT	Big Wells	375	321	271	226	176	117	143	55	45	38	31	24	16
L	KENDALL	Boerne	25,482	35,084	47,445	61,796	78,225	97,031	193	5,200	6,974	9,276	11,917	14,892	18,253
L	WILSON	C Willow Water	664	737	809	873	947	1,030	165	114	123	134	144	155	168
L	COMAL	Canyon Lake Water Service	59,783	86,530	122,210	167,351	219,030	278,197	113	6,940	9,642	13,253	17,717	22,675	28,220
K	BLANCO	Canyon Lake Water Service	802	809	794	779	763	743	113	93	90	86	82	79	75
K	TRAVIS	Canyon Lake Water Service	3,293	4,542	5,620	6,674	7,872	9,233	113	382	506	609	707	815	937
K	HAYS	Canyon Lake Water Service	666	960	1,349	1,876	2,473	3,151	113	77	107	146	199	256	320
L	DIMMIT	Carrizo Hill WSC	595	606	618	630	642	654	156	96	96	97	98	100	102
L	DIMMIT	Carrizo Springs	4,047	3,468	2,933	2,456	1,912	1,289	243	1,040	871	733	613	477	322
L	MEDINA	Castroville	3,096	3,180	3,249	3,315	3,389	3,474	264	872	878	893	909	929	951
L	ATASCOSA	Charlotte	1,235	1,127	1,054	1,084	1,114	1,145	155	197	174	162	166	170	175
L	GUADALUPE	Cibolo	21,098	25,606	30,645	35,967	42,061	49,040	93	1,947	2,255	2,622	3,020	3,469	3,976
L	COMAL	Clear Water Estates Water System	898	1,253	1,725	2,325	3,010	3,795	1083	1,079	1,500	2,060	2,771	3,580	4,506
L	UVALDE	Concan WSC	275	251	227	202	174	142	244	72	64	58	51	44	36
L	BEXAR	Converse	28,362	28,398	28,398	28,398	28,398	28,398	98	2,746	2,615	2,579	2,573	2,573	2,573
L	LA SALLE	Cotulla	3,365	3,257	3,152	3,050	2,952	2,857	280	1,007	957	923	893	864	836
L	CALDWELL	County Line SUD	1,347	1,555	1,750	1,937	2,151	2,396	63	91	105	118	130	145	161
L	HAYS	County Line SUD	17,878	28,172	41,724	60,091	81,112	105,177	63	1,202	1,893	2,804	4,039	5,451	7,069
L	ATASCOSA	County-Other, Atascosa	2,826	3,207	3,558	3,144	2,866	2,634	116	323	348	377	330	300	276
L	BEXAR	County-Other, Bexar	2,993	5,663	8,885	11,563	14,255	16,879	119	336	594	882	1,104	1,313	1,512
L	CALDWELL	County-Other, Caldwell	8,135	10,036	10,993	11,010	10,985	10,908	107	888	1,050	1,132	1,128	1,124	1,116
L	CALHOUN	County-Other, Calhoun	2,289	2,073	1,841	1,622	1,370	1,082	105	208	165	141	123	104	82
L	COMAL	County-Other, Comal	32,072	37,161	44,021	53,158	63,739	76,091	152	5,025	5,628	6,566	7,828	9,269	10,933
L	DEWITT	County-Other, Dewitt	7,226	7,163	7,044	6,867	6,663	6,429	123	881	832	809	786	763	736
L	DIMMIT	County-Other, Dimmit	1,710	1,382	1,074	800	486	128	124	204	155	118	88	53	14
L	FRIO	County-Other, Frio	3,827	1,845	481	606	754	927	117	442	203	52	65	81	99
L	GOLIAD	County-Other, Goliad	5,308	5,153	5,064	4,959	4,839	4,702	110	580	536	522	510	497	483
L	GONZALES	County-Other, Gonzales	2,363	2,287	2,166	2,033	1,880	1,705	108	243	220	205	191	177	161
L	GUADALUPE	County-Other, Guadalupe	1,918	3,282	4,799	6,396	8,224	10,310	105	192	306	432	559	699	854
L	HAYS	County-Other, Hays	36,565	46,580	64,081	119,048	181,982	254,026	111	4,142	5,050	6,757	12,174	18,061	24,553
K	HAYS	County-Other, Hays	30,703	46,786	67,462	95,015	129,676	166,742	111	3,478	5,072	7,114	9,716	12,870	16,117
L	KARNES	County-Other, Karnes	2,096	2,200	2,302	2,416	2,550	2,703	127	265	265	273	285	299	315
L	KENDALL	County-Other, Kendall	20,837	22,900	25,536	28,584	32,070	36,060	110	2,299	2,414	2,645	2,925	3,245	3,607
L	LA SALLE	County-Other, La Salle	2,249	2,273	2,085	1,768	1,389	941	104	227	217	196	165	130	88
L	MEDINA	County-Other, Medina	9,424	11,084	12,151	12,592	13,153	14,088	116	1,105	1,243	1,343	1,382	1,438	1,532
L	REFUGIO	County-Other, Refugio	2,578	2,348	2,114	1,891	1,613	1,270	107	269	230	205	183	156	123
L	UVALDE	County-Other, Uvalde	4,020	3,675	3,315	2,963	2,558	2,093	128	508	440	392	350	302	247
L	VICTORIA	County-Other, Victoria	24,631	25,650	25,926	25,796	25,647	25,476	105	2,534	2,489	2,482	2,460	2,445	2,428
L	WILSON	County-Other, Wilson	7,357	7,657	7,813	7,672	7,502	7,288	107	784	781	786	769	752	731
L	ZAVALA	County-Other, Zavala	1,045	922	809	698	573	425	149	158	134	116	100	82	61

Region L Draft WUG Population, GPCD, and Demand 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	Baseline GPCD	2030 Demand	2040 Demand	2050 Demand	2060 Demand	2070 Demand	2080 Demand
K	TRAVIS	Creedmoor-Maha WSC	7,074	8,165	9,114	10,068	11,148	12,372	100	692	751	814	883	961	1,049
L	CALDWELL	Creedmoor-Maha WSC	2,469	2,958	3,416	3,846	4,340	4,908	100	241	272	305	337	374	416
K	BASTROP	Creedmoor-Maha WSC	232	365	523	702	905	1,135	100	23	34	47	62	78	96
L	HAYS	Creedmoor-Maha WSC	54	54	54	54	54	54	100	5	5	5	5	5	5
L	ZAVALA	Crystal City	5,372	4,746	4,158	3,596	2,952	2,217	189	1,059	909	792	684	562	422
L	COMAL	Crystal Clear SUD	3,794	6,004	8,953	12,681	16,948	21,834	129	499	759	1,113	1,554	2,050	2,607
L	GUADALUPE	Crystal Clear SUD	11,570	12,276	13,059	13,894	14,856	15,961	129	1,523	1,553	1,623	1,703	1,797	1,906
L	HAYS	Crystal Clear SUD	1,978	1,846	1,721	1,611	1,511	1,418	129	260	233	214	197	183	169
L	DEWITT	Cuero	8,446	8,378	8,244	8,046	7,818	7,558	238	2,127	2,062	2,021	1,970	1,915	1,851
L	MEDINA	Devine	4,318	4,374	4,430	4,507	4,594	4,692	132	578	562	564	572	582	594
L	FRIO	Dilley	5,260	6,535	7,420	7,497	7,583	7,680	212	1,183	1,435	1,615	1,625	1,642	1,662
L	BEXAR	East Central SUD	14,624	16,542	18,261	19,789	21,538	23,540	127	1,883	2,041	2,216	2,378	2,566	2,783
L	GUADALUPE	East Central SUD	1,417	1,719	2,057	2,414	2,822	3,291	127	182	212	250	290	336	389
L	WILSON	East Central SUD	1,368	1,525	1,674	1,803	1,900	1,900	127	176	188	203	217	226	225
L	MEDINA	East Medina County SUD	10,138	10,820	11,315	11,625	11,982	12,392	81	795	799	821	837	859	885
L	ATASCOSA	El Oso WSC	106	128	148	158	170	185	183	20	24	27	29	31	33
L	KARNES	El Oso WSC	5,911	6,092	6,273	6,486	6,729	7,009	183	1,124	1,123	1,146	1,178	1,218	1,264
L	WILSON	El Oso WSC	170	207	245	277	315	358	183	32	38	45	50	57	65
N	BEE	El Oso WSC	456	572	718	901	1,131	1,420	183	87	105	131	164	205	256
N	LIVE OAK	El Oso WSC	754	827	827	827	827	827	183	143	152	151	150	150	149
L	BEXAR	Elmendorf	3,097	3,308	3,496	3,678	3,885	4,121	130	409	420	438	458	481	508
L	LA SALLE	Encinal WSC	1,031	1,056	1,082	1,108	1,135	1,163	187	202	202	206	210	215	220
L	BEXAR	Fair Oaks Ranch	5,921	6,794	7,576	8,264	9,053	9,956	237	1,504	1,693	1,868	2,021	2,196	2,398
L	COMAL	Fair Oaks Ranch	2,590	4,301	6,585	9,470	12,773	16,554	237	658	1,072	1,624	2,316	3,099	3,987
L	KENDALL	Fair Oaks Ranch	2,761	3,514	4,482	5,605	6,892	8,364	237	701	875	1,105	1,371	1,672	2,014
L	KARNES	Falls City	476	503	529	560	594	634	201	101	104	108	114	121	129
K	FAYETTE	Fayette WSC	7,999	8,577	9,197	9,861	10,573	11,337	126	1,018	1,047	1,109	1,180	1,258	1,341
L	GONZALES	Fayette WSC	39	49	61	76	95	119	126	5	6	7	9	11	14
K	BASTROP	Fayette WSC	61	98	143	194	251	316	126	8	12	17	23	30	37
L	WILSON	Floresville	5,859	6,166	6,482	6,762	7,082	7,448	213	1,318	1,353	1,413	1,469	1,535	1,611
L	BEXAR	Fort Sam Houston	8,270	8,270	8,270	8,270	8,270	8,270	1895	17,420	17,369	17,354	17,351	17,351	17,351
L	COMAL	Garden Ridge	5,786	8,068	11,111	14,963	19,374	24,423	315	1,978	2,721	3,714	4,964	6,383	7,997
K	HAYS	Goforth SUD	3,076	4,440	6,235	8,672	11,434	14,563	101	317	436	592	797	1,021	1,267
L	CALDWELL	Goforth SUD	769	920	1,061	1,193	1,346	1,522	101	79	90	101	110	120	132
L	HAYS	Goforth SUD	41,415	65,951	98,260	142,035	192,136	249,490	101	4,270	6,479	9,323	13,060	17,159	21,706
K	TRAVIS	Goforth SUD	316	434	536	636	749	878	101	33	43	51	58	67	76
L	GOLIAD	Goliad	1,495	1,495	1,495	1,495	1,495	1,495	180	280	271	270	269	269	269
L	GONZALES	Gonzales	7,317	7,119	6,788	6,439	6,039	5,578	222	1,713	1,626	1,543	1,462	1,371	1,267
L	CALDWELL	Gonzales County WSC	144	143	141	143	145	145	244	37	36	36	36	37	37
L	DEWITT	Gonzales County WSC	200	198	195	189	185	177	244	52	50	49	48	47	45
L	GONZALES	Gonzales County WSC	5,789	5,627	5,360	5,077	4,753	4,382	244	1,497	1,425	1,351	1,278	1,196	1,103
L	GUADALUPE	Gonzales County WSC	125	160	200	241	288	343	244	32	41	50	61	72	86
L	BEXAR	Green Valley SUD	1,776	2,164	2,511	2,808	3,149	3,541	103	186	216	244	267	294	324
L	COMAL	Green Valley SUD	1,315	1,956	2,811	3,893	5,131	6,549	103	137	195	273	371	479	600
L	GUADALUPE	Green Valley SUD	43,357	57,981	74,353	91,615	111,365	133,969	103	4,533	5,793	7,233	8,722	10,391	12,266
L	CALHOUN	Guadalupe-Blanco River Authority	3,669	3,326	2,956	2,605	2,202	1,743	73	257	224	199	175	148	117
L	COMAL	Guadalupe-Blanco River Authority	4,857	7,941	12,057	17,258	23,212	30,027	73	340	534	810	1,160	1,560	2,018
L	KENDALL	Guadalupe-Blanco River Authority	1,719	2,531	3,578	4,793	6,183	7,776	73	120	170	240	322	416	523
L	MEDINA	Hondo	7,907	7,586	7,407	7,448	7,491	7,534	190	1,569	1,464	1,421	1,427	1,435	1,443
L	ATASCOSA	Jourdanton	4,958	5,239	5,540	5,840	6,182	6,572	190	988	1,016	1,067	1,120	1,182	1,252
L	KARNES	Karnes City	2,314	2,441	2,566	2,709	2,871	3,057	168	405	416	434	457	483	512
L	KENDALL	Kendall County WCID 1	2,473	3,114	3,939	4,896	5,992	7,247	86	203	235	285	342	403	487
L	KENDALL	Kendall West Utility	2,819	3,561	4,515	5,623	6,890	8,342	111	318	386	477	583	701	834

Region L Draft WUG Population, GPCD, and Demand 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	Baseline GPCD	2030 Demand	2040 Demand	2050 Demand	2060 Demand	2070 Demand	2080 Demand
L	KARNES	Kenedy	3,447	3,640	3,831	4,046	4,294	4,577	352	1,313	1,366	1,433	1,511	1,601	1,703
L	BEXAR	Kirby	8,962	10,140	10,365	10,365	10,365	10,365	92	802	852	856	852	852	852
L	UVALDE	Knippa WSC	464	425	383	342	295	240	187	90	80	72	64	55	45
L	COMAL	KT Water Development	2,652	4,105	6,045	8,498	11,306	14,521	304	878	1,340	1,955	2,725	3,598	4,590
L	HAYS	Kyle	48,321	69,054	92,000	92,000	92,000	92,000	91	4,380	5,938	7,630	7,517	7,483	7,483
L	BEXAR	La Coste	17	19	21	22	24	27	94	2	2	2	2	2	2
L	MEDINA	La Coste	1,310	1,290	1,281	1,296	1,313	1,330	94	119	110	108	109	111	112
L	WILSON	La Vernia	1,775	1,700	1,635	1,579	1,513	1,437	190	351	326	311	300	288	273
L	BEXAR	Lackland Air Force Base	14,048	14,048	14,048	14,048	14,048	14,048	96	1,306	1,228	1,207	1,202	1,201	1,201
L	BEXAR	Leon Valley	15,085	18,291	22,178	26,891	32,606	39,536	153	2,367	2,755	3,276	3,906	4,659	5,556
L	BEXAR	Live Oak	9,829	9,829	9,829	9,829	9,829	9,829	159	1,593	1,534	1,520	1,516	1,516	1,516
L	CALDWELL	Lockhart	16,563	18,772	21,276	24,114	27,331	30,977	129	2,177	2,369	2,643	2,963	3,323	3,728
L	ZAVALA	Loma Alta Chula Vista Water System	293	259	227	196	160	120	287	90	79	69	59	48	36
L	CALDWELL	Luling	5,602	5,747	5,888	6,085	6,296	6,525	128	724	710	720	741	765	790
L	GONZALES	Luling	53	51	49	47	43	40	128	7	6	6	6	5	5
L	ATASCOSA	Lytle	2,696	2,851	3,017	3,180	3,366	3,579	174	489	501	526	552	582	617
L	BEXAR	Lytle	253	285	314	340	368	402	174	46	50	55	59	64	69
L	MEDINA	Lytle	623	673	709	730	755	783	174	113	118	124	127	131	135
L	GUADALUPE	Marion	1,471	1,546	1,631	1,721	1,825	1,945	113	166	166	172	181	190	202
L	CALDWELL	Martindale WSC	2,458	2,838	3,193	3,534	3,925	4,371	96	235	257	283	309	339	372
L	GUADALUPE	Martindale WSC	351	477	618	767	938	1,134	96	34	43	55	67	81	97
L	CALDWELL	Maxwell SUD	4,289	4,949	5,568	6,160	6,839	7,617	92	394	430	470	505	546	593
L	HAYS	Maxwell SUD	4,861	7,420	10,790	15,358	20,587	26,574	92	447	645	910	1,259	1,643	2,068
L	ATASCOSA	McCoy WSC	7,741	8,082	8,470	8,913	9,417	9,989	111	852	846	873	912	957	1,008
L	WILSON	McCoy WSC	406	451	496	537	583	635	111	45	47	51	55	59	64
N	LIVE OAK	McCoy WSC	53	41	32	25	19	15	111	6	4	3	3	2	2
L	MEDINA	Medina County WCID 2	446	431	421	425	428	431	177	82	77	75	76	76	77
L	MEDINA	Medina River West WSC	1,131	1,204	1,257	1,291	1,330	1,374	91	102	105	108	110	113	116
L	FRIO	Moore WSC	588	686	754	763	774	787	174	107	122	132	134	135	137
L	MEDINA	Natalia	1,134	1,101	1,155	1,187	1,192	1,162	154	180	169	176	180	181	176
L	COMAL	New Braunfels	103,841	147,327	205,331	278,735	362,773	458,988	183	20,117	27,799	38,104	50,986	65,476	81,840
L	GUADALUPE	New Braunfels	36,517	52,564	70,539	89,478	111,139	135,926	183	7,074	9,918	13,090	16,367	20,059	24,236
L	GONZALES	Nixon	2,191	2,130	2,028	1,921	1,798	1,657	140	313	293	277	262	245	226
L	BEXAR	Oak Hills WSC	40	55	76	105	145	200	150	6	8	11	15	21	29
L	WILSON	Oak Hills WSC	5,987	6,907	7,968	9,192	10,604	12,233	150	932	1,042	1,186	1,354	1,547	1,769
L	FRIO	Pearsall	8,550	9,781	10,640	10,787	10,952	11,139	178	1,586	1,760	1,895	1,914	1,941	1,972
L	WILSON	Picosa WSC	3,591	4,142	4,683	5,161	5,710	6,338	86	305	334	369	401	438	480
L	ATASCOSA	Pleasanton	10,473	11,498	12,623	13,858	15,214	16,703	196	2,156	2,303	2,507	2,737	2,990	3,267
L	CALHOUN	Point Comfort	529	479	425	375	316	250	94	46	39	34	30	25	20
L	CALDWELL	Polonia WSC	8,545	10,119	11,982	14,188	16,801	19,895	112	975	1,113	1,293	1,509	1,762	2,057
K	BASTROP	Polonia WSC	189	191	192	194	196	198	112	22	21	21	21	21	20
L	CALHOUN	Port Lavaca	10,367	9,408	8,369	7,385	6,262	4,971	126	1,309	1,134	1,000	880	746	593
L	CALHOUN	Port Oconnor Improvement District	799	725	643	566	478	377	70	54	49	43	38	32	25
L	ATASCOSA	Poteet	2,734	2,447	2,244	2,297	2,351	2,403	111	303	258	234	239	244	249
L	WILSON	Poth	1,550	1,525	1,506	1,491	1,472	1,450	144	227	215	210	208	205	202
L	VICTORIA	Quail Creek MUD	1,319	1,365	1,378	1,371	1,363	1,354	105	134	129	128	127	126	126
L	BEXAR	Randolph Air Force Base	1,280	1,280	1,280	1,280	1,280	1,280	60	86	86	86	86	86	86
L	REFUGIO	Refugio	2,468	2,350	2,238	2,131	2,029	1,932	171	434	399	377	359	342	325
L	KARNES	Runge	876	925	974	1,030	1,094	1,167	183	168	173	181	190	202	214
L	WILSON	S S WSC	20,066	23,148	26,175	28,850	31,963	35,649	109	2,219	2,459	2,733	2,979	3,269	3,611
L	UVALDE	Sabinal	1,210	1,106	997	889	766	626	215	273	243	218	194	168	137
L	ATASCOSA	San Antonio Water System	6,129	6,662	7,067	7,635	8,152	8,732	119	732	759	791	846	895	951
L	BEXAR	San Antonio Water System	2,113,183	2,387,020	2,632,459	2,850,837	3,100,869	3,387,143	119	252,472	272,113	294,726	315,822	340,569	368,899
L	COMAL	San Antonio Water System	2,394	2,651	2,898	3,124	3,332	3,332	119	286	302	324	346	366	363
L	MEDINA	San Antonio Water System	1,383	1,531	1,674	1,805	1,925	1,925	119	165	175	187	200	211	210

Region L Draft WUG Population, GPCD, and Demand 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	Baseline GPCD	2030 Demand	2040 Demand	2050 Demand	2060 Demand	2070 Demand	2080 Demand
L	CALDWELL	San Marcos	917	917	917	917	917	917	138	131	126	123	120	117	115
L	HAYS	San Marcos	94,984	137,425	193,313	269,164	356,004	455,427	138	13,538	18,842	25,857	35,215	45,616	57,259
L	BEXAR	Schertz	9,641	13,665	17,272	20,265	23,714	27,687	145	1,443	1,975	2,452	2,842	3,290	3,801
L	COMAL	Schertz	1,371	1,912	2,634	3,549	4,595	5,793	145	205	276	374	498	637	795
L	GUADALUPE	Schertz	40,008	46,563	53,883	61,623	70,494	80,655	145	5,989	6,730	7,651	8,644	9,780	11,072
L	CALHOUN	Seadrift	862	780	692	609	514	406	150	132	115	101	89	75	59
L	GUADALUPE	Seguin	24,314	25,867	27,588	29,424	31,537	33,965	139	3,445	3,518	3,708	3,928	4,185	4,481
L	BEXAR	Selma	10,477	13,541	16,288	18,599	21,258	24,318	148	1,608	2,009	2,373	2,677	3,028	3,430
L	COMAL	Selma	633	1,098	1,718	2,502	3,399	4,426	148	97	163	250	360	484	624
L	GUADALUPE	Selma	5,251	5,251	5,251	5,251	5,251	5,251	148	806	779	765	756	748	741
L	BEXAR	Shavano Park	1,804	2,041	2,252	2,441	2,656	2,903	283	548	609	669	722	783	854
L	GONZALES	Smiley	462	449	428	405	379	349	181	87	82	78	74	69	64
L	HAYS	South Buda WCID 1	4,066	6,633	10,014	14,592	19,832	25,829	142	604	951	1,397	1,988	2,643	3,377
L	GUADALUPE	Springs Hill WSC	28,758	34,551	41,025	47,864	55,697	64,667	79	2,193	2,460	2,827	3,219	3,743	4,346
L	WILSON	Springs Hill WSC	244	354	461	556	664	789	79	19	25	32	37	45	53
L	WILSON	Stockdale	1,458	1,471	1,488	1,504	1,521	1,540	189	289	283	285	287	290	294
L	KARNES	Sunko WSC	150	158	167	177	187	199	146	23	23	24	25	27	28
L	WILSON	Sunko WSC	3,995	4,434	4,868	5,252	5,692	6,196	146	604	649	705	756	814	882
L	HAYS	Texas State University	5,320	5,320	5,320	5,320	5,320	5,320	171	955	931	925	924	924	924
L	BEXAR	The Oaks WSC	1,277	1,445	1,595	1,729	1,881	2,057	157	207	228	249	268	290	315
L	KARNES	Three Oaks WSC	87	93	97	103	110	116	223	20	21	22	23	25	26
L	WILSON	Three Oaks WSC	1,368	1,517	1,665	1,795	1,945	2,116	223	322	349	379	407	439	476
L	CALDWELL	Tri Community WSC	1,368	1,416	1,463	1,521	1,585	1,655	113	156	154	158	163	169	176
L	GUADALUPE	Tri Community WSC	28	31	34	37	40	44	113	3	3	4	4	4	5
L	BEXAR	Universal City	20,327	21,357	21,702	21,702	21,702	21,702	135	2,774	2,796	2,808	2,800	2,798	2,798
L	GUADALUPE	Universal City	198	252	312	376	449	532	135	27	33	40	49	58	69
L	UVALDE	Uvalde	15,086	13,856	12,570	11,312	9,872	8,225	211	3,343	2,989	2,698	2,425	2,117	1,764
L	VICTORIA	Victoria	66,295	67,314	67,537	67,234	66,888	66,491	226	15,765	15,601	15,570	15,480	15,401	15,309
L	VICTORIA	Victoria County WCID 1	1,709	1,753	1,767	1,767	1,766	1,766	98	164	159	158	158	158	158
L	MEDINA	Ville Dalsace Water Supply	410	447	474	489	506	526	246	108	116	122	125	129	134
L	GONZALES	Waelder	990	962	916	867	812	749	154	157	147	139	132	123	114
L	BEXAR	Water Services	3,642	4,119	4,547	4,928	5,364	5,863	145	541	591	646	696	755	822
L	COMAL	Water Services	1,620	1,609	1,592	1,576	1,558	1,538	145	241	231	226	223	219	216
L	GUADALUPE	Water Services	201	179	160	143	129	115	145	30	26	23	20	18	16
L	KENDALL	Water Services	215	192	170	151	135	120	145	32	28	24	21	19	17
L	MEDINA	West Medina WSC	1,003	1,079	1,097	1,122	1,161	1,095	185	193	201	203	207	214	202
L	HAYS	Wimberley WSC	5,272	7,640	10,758	14,989	19,834	25,379	104	552	759	1,034	1,399	1,799	2,244
L	UVALDE	Windmill WSC	1,516	1,385	1,249	1,114	960	784	197	314	281	252	224	193	158
L	COMAL	Wingert Water Systems	1,638	1,847	2,126	2,178	2,178	2,178	180	310	341	388	396	395	395
L	REFUGIO	Woodsboro	1,237	1,122	1,000	875	734	578	147	185	162	143	125	105	83
L	MEDINA	Yancey WSC	6,316	6,706	6,992	7,177	7,389	7,633	101	634	647	662	677	694	715
L	DEWITT	Yoakum	2,019	2,002	1,970	1,921	1,865	1,802	160	332	317	309	301	292	281
P	LAVACA	Yoakum	3,852	4,057	4,251	4,445	4,648	4,860	160	633	642	668	696	727	759
L	DEWITT	Yorktown	1,826	1,811	1,781	1,736	1,684	1,626	158	296	283	276	269	261	252
L	ZAVALA	Zavala County WCID 1	1,105	975	853	737	603	451	256	301	261	227	196	160	120