It's 2024 — do you know where your conservation plan is?

John T. Sutton
Texas Water Development Board

Unless specifically noted, this presentation does not necessarily reflect official Board positions or decisions.

March 1, 2024

2023 Water Use Survey



May 1, 2024

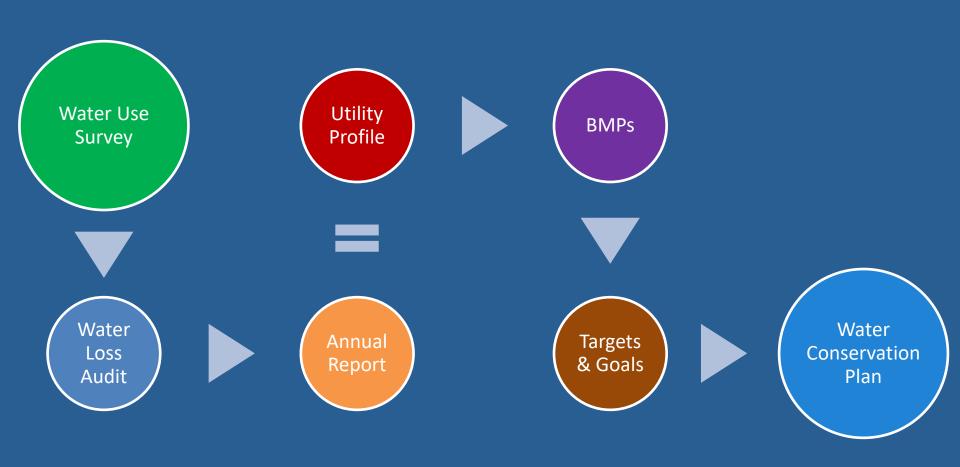
2023 Water Loss Audit
2023 Annual Conservation Report
Utility Profile
2024 Water Conservation Plan



Start NOW!

- Review your current program
- Work with other departments
- Involve customers
- Use the data
- Be realistic
- Set goals
- Work with neighboring utilities

Process









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. Utility Profile

Conservation Plan

Annual Report

Utility Profile Retail Water Supplier

SECTION I: Utility Data

Water Utility General Information

Name of Utility:

Effervescent Water Supply

B. System Input

Provide system input data for the previous five years. Total System Input = Self supplied + Imported - Exported

Year	Water Produced in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2018	24,053,096,907	0	1,284,475,258	22,768,621,649	192
2017	22,903,189,691	0	1,344,741,237	21,558,448,454	182
2016	25,064,414,141	0	1,327,069,388	23,737,344,753	203
2015	23,269,618,947	15,099,738,852	12,668,445,835	25,700,911,964	220
2014	23,464,359,009	15,322,817,424	12,460,868,091	26,326,308,342	225
Historic Average	23,750,935,739	6,084,511,255	5,817,119,962	24,018,327,032	204



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+ Utility Profile Conservation Plan

Annual Report

Utility Profile Retail Water Supplier

SECTION II: System Data

F. Peak Day Use

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2014	5,866,731	6,873,456	1.1716
2015	4,897,126	4,064,717	0.8300
2016	5,165,980	5,814,836	1.1256
2017	6,413,742	8,316,717	1.2967
2018	6,726,172	8,916,228	1.3256

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	994,793,075	92.87%	80.34%
Residential - Multi- Family	29,704,674	1.38%	2.40%
Industrial	0	0.00%	0.00%
Commercial	191,721,654	5.71%	15.48%
Institutional	22,034,868	0.03%	1.78%
Agricultural	0	0.00%	0.00%





The Plan

Evaluation of w/ww system, this includes UP

5 & 10-year goals for Total, Residential, and Water Loss GPCDs

Implementation schedule to achieve goals

Method for tracking implementation and effectiveness

Master meter and universal metering information

Measures to determine water loss

Leak detection, repair, and water loss program details

Non-promotional water rate structure

Means of implementation and enforcement Documentation to regional water planning group

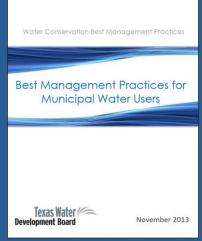
Copy of Drought **Contingency Plan**

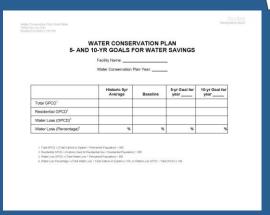


Considerations

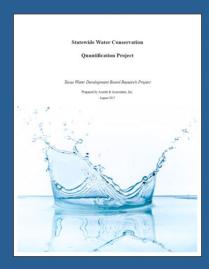


Please complete the prime highlighted fields. The <u>prime</u> highlighted with ** transfer from the Water Line Survey, Fields with # are calculated. The <u>Boar</u> highlighted with @ use a default calculation writes a better value is known. Citic? I to use the default or citicde N and got a volume.	TEXAS WATER DEVELOP P.O. BOX 13231, CAPIT AUSTIN, TX 7871 2016 WATER AUDIT	OL STATION 1-3231	
A. Water Utility General Information			
1. Water Utility Name			
1a. Regional Water Planning Ar	ea		
1b. Address			
2. Contact Information			
2a Name			
2b. Telephone Number			
2c. Email Address			
3. Reporting Period			
3a. Start Date			
3b. End Date			
4. Source Water Utilization			
4a. Surface Water			%
4b. Ground Water			%
5. Population Served			
5a. Retail Population Served ***			Assessment
5b. Wholesale Population Serve	d		Scale
6. Utility's Length of Main Lines			miles
7. Total Retail Metered Connection	s - Active and Inactive **		
8. Number of Wholesale Connection	ns Served		
9. Service Connection Density #			connections per mile
10. Average Yearly System Operat	ing Pressure		pai
11. Volume Units of Measure		Gallons	
B. System Input Volume			
12. Volume of Water Intake **			gallons
13. Produced Water			gallons
13a. Production Meter Accuracy			%
13b. Corrected Input Volume #			gallons
14. Total Treated Purchased Water			gallons
14a. Treated Purchased Water	Meter Accuracy		%
14b. Corrected Treated Purchas Volume #	ed Water		gallons
			Page 1 of 4
			Page 1 of 4













Conservation Tool

- Pre-loaded data for 462 water utilities
- Alternative base and projected data can be used
- Menu of possible conservation activities
- Develop and save different scenarios
- Estimate water savings and costs
- Estimate water savings for annual report

Find My Utility	1								Select Projecti	on to Uso		~				
	PFLUGERVILLE								Select Projecti	on to Use	Use TWDB Projection					
tility anning Region	K		<u> </u>													
anning Region	TWDB Pre-Pop	ulat o Projec	tion						User Entered F	Projection						
	Tables below wi			have data for v	our utility.					-	seline Demand Pro	iection, enter v	alues for the	vellow-shaded o	ells in the	
	145105 5010 11 111			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					tables below in	•		, , , , , , , , , , , , , , , , , , , ,		,		
								Avg Annual		·						Avg Annu
ojections	Reported			Proje	ted			Growth %	Base			Projecte	d			Growth
	2016	2020	2030	2040	2050	2060	2070	2020-70	Period	2020	2030	2040	2050	2060	2070	2020-70
1.00																
pulation tail Service Area	33,575	63,118	78,714	96,187	113,524	131,029	131,180	1.5%								0.0
all Service Area	33,373	05,116	70,714	90,167	115,524	151,029	151,160	1.370								0.0
nnections	ı															
gle Family	12,158	18,840	23,495	28,710	33,885	39,110	39,155	1.5%								0.0
ti Family	29	45	56	70	87	108	135	2.2%								0.0
	548	849	1,059	1,321	1,647	2,054	2,562	2.2%								0.0
al	12,735	19,734	24,610	30,101	35,619	41,272	41,852	1.5%	0	0	0	0	0	0	0	0.0
= Industrial, Comr	nercial, and Institu	tional														
seline Demand	(in kGal)								(in kGal)						annininininininin.	
gle Family	1,104,929	1,651,787	1,990,348	2,392,275	2,794,292	3,204,001	3,204,443	1.3%								0.0
lti Family	72,575	108,494	130,731	157,131	183,537	210,447	210,477	1.3%								0.0
	326,715	494,715 2,254,996	598,916	720,842	844,337	970,820	970,081	1.4%								0.0
es Subtotal	1,504,218		2,719,996	3,270,248	3,822,166	4,385,268	4,385,001	1.3%	0							0.0
ner Uses ter Loss	67,557 191,493	104,689 287,486	130,556 347,289	159,537 417,858	188,293 488,603	217,327 560,745	217,577 560,743	1.5% 1.3%								0.0
duction Total	1,763,268	2.647.170	3,197,841	3.847.643	4.499.062	5.163.339	5,163,321	1.3%	0						0	
duction rotal	1,703,208	2,047,170	3,137,041	3,047,043	4,433,002	3,103,333	3,103,321	1.570	<u> </u>		<u>/</u>	V _I	<u> </u>		V I	0.0
seline GPCD																
al	144	115	111	110	109	108	108	-0.1%	0	C	0	0	0	0	0	0.0
idential	96	76	74	73	72	71	71	-0.1%	0	0		0	0	0	0	0.0
ter Loss	16	12	12	12	12	12	12	-0.1%	0	C	0	0	0	0	0	
D = gallons per ca	./	λ		λ	λ	λ									λ.	
ter Loss %	10.86	10.86	10.86	10.86	10.86	10.86	10.86	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0

vation Measures Rebate Retrofit de dand Aerator Kit asher Rebate	Include in Plan? Y/N N N	Average Annual Level of Activity for each Measure by Decade 2020-30 2031-40 2041-50 2051-60 2061-70	Measure Accounting Unit	Measure g Delivery Method	Cost Param Implementation Cost \$ per Unit of Activity O&M Capital	Debt Finance	Unit Savings (u) gpd	Freerider Rate (f) %/yr		s Parameter Plumb. Code Interaction Y/N		Useful Life (T) years	Measure Unit Costs Per Per Activity Unit Acre-Fo
vation Measures	Y/N		Unit										
lebate Retrofit ad and Aerator Kit asher Rebate	N N	2020-30 2031-40 2041-50 2051-60 2061-70		Method	O&M Capital	Y/N	gpd	%/yr	%/уг	Y/N	%/yr	years	Activity Unit Acre-Fo
lebate Retrofit ad and Aerator Kit asher Rebate	N		Toilet										
lebate Retrofit ad and Aerator Kit asher Rebate	N		Toilet										
Retrofit ad and Aerator Kit asher Rebate	N		Toilet										
Retrofit ad and Aerator Kit asher Rebate	N		Toilet										
Retrofit ad and Aerator Kit asher Rebate		***************************************		Rebate	\$ 113 \$ -	- 1111111111111111111111111111111111111	25.2	20%	0%	Υ	4%	99	\$ 113 \$
asher Rebate	N		Toilet	Direct Installation		- 1000000000000000000000000000000000000	28.5	0%	0%	Y	4%	99	\$ 329 \$
······································			Showerhead	·····	\$ 10 \$ -	- 1000000000000000000000000000000000000	6.4	50%	0%	Y	7%	99	\$ 10 \$
	N		Clothes Wash		\$ 156 \$ -	- 1000000000000000000000000000000000000	13.0	20%	0%	Y	7%	99	\$ 156 \$ 1
er Reports	N		SF Acct.	Distribution	S 7 S	- 1111111111111	12.1	0%	0%	N	0%	1	\$ 7 \$
Audits - High Users	N		SF Acct.	Site Visit	\$ 99 \$	- /////////////////////////////////////	33.0	0%	0%	N	0%	3	\$ 99 \$
ency Sprinkler Nozzle Rebat	N		SF Acct.	Rebate	\$ 110 \$ -	- 111111111111111	12.4	0%	0%	N	0%	10	\$ 110 \$
ation Controller Rebate	N		SF Acct.	Rebate	S 210 S	- 1111111111111111111111111111111111111	31.4	0%	0%	N	0%	10	S 210 S
			8 }	····		- 1111111111111111111111111111111111111	79.4			N			\$ 550 \$
Harvesting Rebate				Rebate		- 1111111111111111111111111111111111111	39.9	0%	0%	N	0%		S 355 S
l Repute	N		8 }	Rebate	S 64 S	- (((((((((((((((((((((((((((((((((((((4.3	0%	0%	N	0%	15	\$ 64 \$ 1
·			S !		<u> </u>								\
ebate	N		Toilet	Rebate	\$ 113 \$ -	- 1111111111111111111111111111111111111	34.7	20%	0%	Y	4%	99	\$ 113 \$
Retrofit	N		Toilet	Direct Installation	\$ 329 \$ -	- 1111111111111111111111111111111111111	45.7	0%	0%	Y	4%	99	\$ 329 \$
ad and Aerator Kit	N		Showerhead	Distribution	S 10 S -	- 1000000000000000000000000000000000000	6.1	50%	0%	Y	7%	99	S 10 S
••••••	N		8 }	····		- 111111111111111	ļ			Υ			\$ 156 \$
			N		>	- 1000000000000000000000000000000000000	}				·		\$ 213 \$
······································			8 }	····•		- 1000000000000000000000000000000000000							\$ 410 \$
						-	3						\$ 510 \$
•••••••••••••••••			X }			- 4444444444444444444444444444444444444							\$ 5,250 \$
Harvesting Rebate	N			Rebate		-	462.6	0%	0%	N	0%	15	\$ 2,911 \$
			\$		<u> </u>								<u> </u>
itutional Measures													
ebate	N		Toilet	Rebate	\$ 138 \$ -	- /////////////////////////////////////	32.0	20%	0%	Υ	4%	99	\$ 138 \$
ate	N		Urinal	Rebate	\$ 138 \$ -	-	17.0	20%	0%	Y	4%	99	\$ 138 \$
asher Rebate	N		Clothes Wash	ne Rebate	\$ 227 \$ -	- 1	86.0	20%	0%	Υ	13%	99	\$ 227 \$
I General Rebate	N		Other	Rebate	\$ 2 \$ -	-	1.0	50%	0%	N	0%	15	\$ 2 \$
-Rinse Spray Valve Installa	N		ICI Acct.	Direct Installation		- /////////////////////////////////////	77.0	0%	0%	Y	10%	99	\$ 213 \$
Audits - High Users	N		ICI Acct.	Site Visit	\$ 213 \$ -	- 1111111111111111111111111111111111111	123.0	0%	0%	N	0%	3	\$ 213 \$
ency Sprinkler Nozzle Rebati	N		ICI Acct.	Rebate	\$ 410 \$	- 11111111111111	49.8	0%	0%	N	0%	10	\$ 410 \$
				Rebate	}	- 1111111111111111111111111111111111111	117.7	0%	0%	N	0%	10	\$ 510 \$
Landscape Rebate	N		ICI Acct.	Rebate	\$ 5,250 \$ -	- "	793.8	20%	0%	N	0%	15	\$ 5,250 \$
			N		S 2.911 S -	- 1111111111111111	3			N			\$ 2,911 \$
I Dishwasher Rebate	N		ICI Acct.	Rebate		- 1111111111111111111111111111111111111	158.2	0%	0%	N		20	\$ 1,028 \$
I Food Steamer Rebate	N	444444444444444444444444444444444444444	ICI Acct.		}								S 513 S
i i i i i i i i i i i i i i i i i i i	Landscape Rebate lanvesting Rebate etrofit d and Aerator Kit sher Rebate udits - High Users ncy Sprinkler Nozzle Rebat tion Controller Rebate Landscape Rebate lanvesting Rebate tutional Measures ebate ette sher Rebate General Rebate Rinse Spray Valve Installa udits - High Users ncy Sprinkler Nozzle Rebat tion Controller Rebate Landscape Rebate Dishwasher Rebate	Landscape Rebate N larvesting Rebate N	Landscape Rebate N I arrvesting Rebate N N Bebate N I N Bebate N I N I and Aerator Kit N I and Aerator K	Landscape Rebate N I SF Acct. Toilet N Showerhead Clothes Wash MF Acct. MF Acct	Landscape Rebate N larvesting Rebate N larvest	SF Acct. Rebate N SF Acct. Rebate S S50 S	SF Acct. Rebate S S50 S S S S S S S S S	SF Acct. Rebate S S50 S - 79.4	SF Acct. Rebate S S50 S S S S S S S S S	SF Acct. Rebate N SF Acct. Rebate S 550 S - 79.4 20% 0% 0% 0% 0% 0% 0% 0	SF Acct	SF Act. Rebate N SF Act. Rebate S S50 S - 39.9 0% 0% N 0% N	SF Acct. Rebate N SF Acct. Rebate SF Acct. Rebate

Utility: Scenari	PFLUGERVILLE Going Slow	Include			nual Leve Neasure b		
		in Plan?					
ID	Name	Y/N	2020-30	2031-40	2041-50	2051-60	2061-70
Single-Famil	v Measures						
PRE-SF-01	HE Toilet Rebate	Υ	100	100	100	100	
PRE-SF-02	Bathroom Retrofit	N N	100		111111111111111111111111111111111111111		
PRE-SF-03	Showerhead and Aerator Kit	N					
PRE-SF-04	Clothes Washer Rebate	N					
PRE-SF-05	Home Water Reports	γ	20	20	20	20	20
PRE-SF-06	Irrigation Audits - High Users	γ	5	5	5	5	
PRE-SF-07	High-Efficiency Sprinkler Nozzle Rebate						
PRE-SF-08	Smart Irrigation Controller Rebate	N					
PRE-SF-09	WaterWise Landscape Rebate	N					
PRE-SF-10	Rainwater Harvesting Rebate	N					
PRE-SF-11	Rain Barrel	Y	100	100	100	100	100
Multi-Family	/ Measures						
PRE-MF-01	HE Toilet Rebate	Υ	20	20			
PRE-MF-02	Bathroom Retrofit	N					
PRE-MF-03	Showerhead and Aerator Kit	N					
PRE-MF-04	Clothes Washer Rebate	N					
PRE-MF-05	Irrigation Audits - High Users	Υ	2	2	2	2	**********
PRE-MF-06	High-Efficiency Sprinkler Nozzle Rebate	N					
PRE-MF-07	Smart Irrigation Controller Rebate	N					
PRE-MF-08	WaterWise Landscape Rebate	N					
PRE-MF-09	Rainwater Harvesting Rebate	N					
			211111111111111111111111111111111111111	**********		*******	******
	ommercial, Institutional Measures		************		,,,,,,,,,,,,,,,,,		.,,,,,,,,,,,,,,,
PRE-ICI-01	HE Toilet Rebate	N					
PRE-ICI-02	Urinal Rebate	N					
PRE-ICI-03	Clothes Washer Rebate	N					
PRE-ICI-04	Commercial General Rebate	N					
PRE-ICI-05	Kitchen Pre-Rinse Spray Valve Installati	N					
PRE-ICI-06	Irrigation Audits - High Users	Υ	2	2	2	2	
PRE-ICI-07	High-Efficiency Sprinkler Nozzle Rebate	N					
PRE-ICI-08	Smart Irrigation Controller Rebate	N					
PRE-ICI-09	WaterWise Landscape Rebate	N					
PRE-ICI-10	Rainwater Harvesting Rebate	N					
PRE-ICI-11	Commercial Dishwasher Rebate	N					
PRE-ICI-12	Commercial Food Steamer Rebate	N					

Utility: Scenario	PFLUGERVILLE Sky's The Limit	Include				el of Activ by Decade	
ID	Name	in Plan? Y/N	2020-30	2031-40	2041-50	2051-60	2061-70
Single-Fami	y Measures		_				
PRE-SF-01	HE Toilet Rebate	Υ	100				
PRE-SF-02	Bathroom Retrofit	Υ	100	100	100	100	
PRE-SF-03	Showerhead and Aerator Kit	N					
PRE-SF-04	Clothes Washer Rebate	Υ	75	75	**********		******
PRE-SF-05	Home Water Reports	Υ	50	50	50	50	50
PRE-SF-06	Irrigation Audits - High Users	Υ	200	225	250	275	30
PRE-SF-07	High-Efficiency Sprinkler Nozzle Rebate	Υ					
PRE-SF-08	Smart Irrigation Controller Rebate	Υ	350	375	400	450	50
PRE-SF-09	WaterWise Landscape Rebate	Υ	400	450	500	550	60
PRE-SF-10	Rainwater Harvesting Rebate	Υ	100	150	200	250	30
PRE-SF-11	Rain Barrel	N				1111111111	
PRE-MF-01 PRE-MF-02	HE Toilet Rebate Bathroom Retrofit	Y Y	15 10	10	10		
Multi-Famil							
PRE-MF-02	Bathroom Retrofit	Y	10	10	10	*******	
PRE-MF-03	Showerhead and Aerator Kit	N					
PRE-MF-04	Clothes Washer Rebate	N					
PRE-MF-05	Irrigation Audits - High Users	Υ	10	20	30	40	5
PRE-MF-06	High-Efficiency Sprinkler Nozzle Rebate	N					
PRE-MF-07	Smart Irrigation Controller Rebate	N					
PRE-MF-08	WaterWise Landscape Rebate	Υ	20	20	20	20	20
PRE-MF-09	Rainwater Harvesting Rebate	Υ	15	15	15	15	1.
Industrial, C	ommercial, Institutional Measures						
PRE-ICI-01	HE Toilet Rebate	Υ	100	20			
PRE-ICI-02	Urinal Rebate	Υ	30				
PRE-ICI-03	Clothes Washer Rebate	N					
PRE-ICI-04	Commercial General Rebate	N					
PRE-ICI-05	Kitchen Pre-Rinse Spray Valve Installati	N					
PRE-ICI-06	Irrigation Audits - High Users	Y	40	40	40	40	41
PRE-ICI-07	High-Efficiency Sprinkler Nozzle Rebate	N					
PRE-ICI-08	Smart Irrigation Controller Rebate	N					
PRE-ICI-09	WaterWise Landscape Rebate	Υ	100	100	100	100	10
PRE-ICI-10	Rainwater Harvesting Rebate	Υ	10	20	30	40	50
PRE-ICI-11	Commercial Dishwasher Rebate	Y	20	20	20	20	20
			10				

PRE-ICI-12

Commercial Food Steamer Rebate

w Settings Help Manage Scenarios													
lity: PFLUGERVILLE enario: Sky's The Limit	Savings	Annual Meas	re Implem	ontation		ctive Water S				Total Cast by	Planning Year ((2010 ¢)	
enano. Sky s me cinit	Unit Cost	Allifual Meas	are implem	Elitation		ictive water s	ivings by Pia	nning tear (K	Galj	Total Cost by	rianning rear	2018 \$)	
Name	\$/AF	2020	2024	2029	2030	2020	2024	2029	2030	2020	2024	2029	2030
ngle-Family Measures													
RE-SF-01 HE Toilet Rebate	\$ 363	100	100	100	100	736	3,398	6,168	6,658	\$ 11,300	\$ 11,300 \$	11,300 \$	11,300
E-SF-02 Bathroom Retrofit	\$ 748	100	100	100	100	1,039	4,797	8,708			\$ 32,900 \$	32,900 \$	32,900
E-SF-04 Clothes Washer Rebate	\$ 1,374	75	75	75	75	284	1,233	2,086		\$ 11,700		11,700 \$	11,700
E-SF-05 Home Water Reports	\$ 516	50	50	50	50	221	221	221		\$ 350			350
-SF-06 Irrigation Audits - High Users	\$ 924	200	200	200	200	2,409	7,227	7,227		\$ 19,800			19,800
E-SF-07 High-Efficiency Sprinkler Nozzle Rebate	\$ 917	0	0	0	0	0	0	0		\$ -	\$ - \$	- \$	-
E-SF-08 Smart Irrigation Controller Rebate	\$ 694	350	350	350	350	4,010	20,052	40,103		\$ 73,500	\$ 73,500 \$	73,500 \$	73,500
E-SF-09 WaterWise Landscape Rebate	\$ 649	400	400	400	400	9,272	46,359	92,719		\$ 220,000	\$ 220,000 \$	220,000 \$	220,000
E-SF-10 Rainwater Harvesting Rebate	\$ 666	100	100	100	100	1,457	7,283	14,566	16,023	\$ 35,500	\$ 35,500 \$	35,500 \$	35,500
ototal	\$ 676	<u> </u>				19,428	90.570	171.799	183,844	\$ 405,050	\$ 405,050 \$	405,050 \$	405,050
llti-Family Measures													
-MF-01 HE Toilet Rebate	\$ 263	15	15	15	15	152	702	1,274	1,375	\$ 1,695	\$ 1,695 \$	1,695 \$	1,695
E-MF-02 Bathroom Retrofit	\$ 466	10	10	10	10	167	770	1,398			\$ 3,290 \$		3,290
-MF-05 Irrigation Audits - High Users	\$ 533	10	10	10	10	449	1,347	1,347	1,000		\$ 2,130 \$		2,130
E-MF-08 WaterWise Landscape Rebate	\$ 619	20	20	20	20	4,636	23,180	46,359		\$ 105,000	\$ 105,000 \$	105,000 \$	105,000
E-MF-09 Rainwater Harvesting Rebate	\$ 471	15	15	15	15	2,533	12,663	25,326		\$ 43,665	\$ 43,665 \$	43,665 \$	43,665
ototal	\$ 561	L				7.936	38,662	75,705	83.085	\$ 155,780	\$ 155,780 \$	155,780 \$	155,780

ustrial, Commercial, Institutional Measures									r		······································		
-ICI-01 HE Toilet Rebate	\$ 349	100	100	100	100	934	4,310	7,825	0,443	\$ 13,800		13,800 \$	13,800
E-ICI-02 Urinal Rebate	\$ 657	30	30	30	30	149	687	1,248	1,347	\$ 4,140			
-ICI-06 Irrigation Audits - High Users	\$ 533	40	40	40	40	1,796	5,387	5,387	3,307	\$ 8,520			8,520
E-ICI-09 WaterWise Landscape Rebate	\$ 619	100	100	100	100	23,180	115,898	231,797	234,577	\$ 525,000			
E-ICI-10 Rainwater Harvesting Rebate	\$ 471	10	10	10	10	1,688	8,442	16,884	10,372	\$ 29,110			29,110
-ICI-11 Commercial Dishwasher Rebate	\$ 394	20	20	20	20	1,155	5,776	11,551	12,707	\$ 20,560			
E-ICI-12 Commercial Food Steamer Rebate	\$ 238	10	10	10	10	815	4,075	8,150	8,130	\$ 5,130		5,130 \$	5,130
btotal	\$ 577					29,717	144,576	282,842	309,585	\$ 606,260	\$ 606,260 \$	606,260 \$	606,260
ility & General Measures													
ototal	NA					0	0	0	0	\$ -	\$ - \$	- \$	-
and Total for Plan	\$ 608					57,081	273.807	530,346	576,514	\$ 1,167,090	\$ 1,167,090 \$	1,167,090 \$	1,167,090

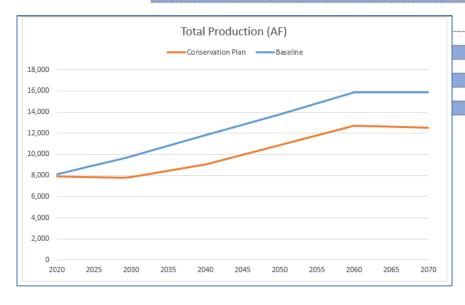
Conservation Plan Demand Projection

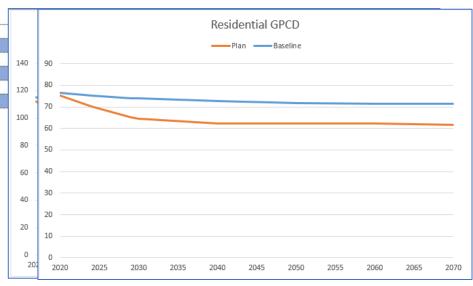
View Settings Help | Adjust Column Width | Manage Scenarios

Utility:	PFLUGERVILLE Sky's The Limit	:							Avg Annual
Volume Units:	AF								Growth %
Projections	2020	2024	2029	2030	2040	2050	2060	2070	2020-70
Population									
Retail Service Area	63,118	69,356	77,154	78,714	96,187	113,524	131,029	131,180	1.5%

Connections									
Single Family	18,840	20,702	23,030	23,495	28,710	33,885	39,110	39,155	1.5%
Multi Family	45	49	55	56	70	87	108	135	2.2%
ICI	849	933	1,038	1,059	1,321	1,647	2,054	2,562	2.2%
Total	19,734	21,684	24,122	24,610	30,101	35,619	41,272	41,852	1.5%
	_								
Baseline Demand	(in AF)								
Single Family	5,069	5,485	6,004	6,108	7,342	8,575	9,833	9,834	1.3%
Multi Family	333	360	394	401	482	563	646	646	1.3%
CI	1,518	1,646	1,806	1,838	2,212	2,591	2,979	2,977	1.4%
Sales Subtotal	6,920	7,491	8,205	8,347	10,036	11,730	13,458	13,457	1.3%
Other Uses	321	353	393	401	490	578	667	668	1.5%
Water Loss	882	956	1,047	1,056	1,282	1,499	1,721	1,721	1.3%
Production Total	8,124	8,800	9,645	9,814	11,808	13,807	15,846	15,846	
Water Loss %	11%	11%	11%	11%	11%	11%	11%	11%	0.0%
Baseline GPCD									
Total	115	113	112	111	110	109	108	108	-0.1%
Residential	76	75	74	74	73	72	71	71	-0.1%
Water Loss	12	12	12	12	12	12	12	12	-0.1%
Plan Active Savings	(in AF)	······································	y	······································	······································	······································	······································	y.	
Single Family	60	278	527	564	778	879	988	1,070	
Multi Family	24	119	232	255	348	353	354	356	
ICI	91	444	868	950	1,334	1,403	1,475	1,549	
Other	0	0	0	0	0	0	0	0	
Water Loss	0	0	0	0	0	0	0	0	
Total Plan Savings	175	840	1,628	1,769	2,461	2,635	2,817	2,975	

Utility: Scenario: Volume Units:	PFLUGERVILLE Sky's The Limit AF								Avg Annual Growth %
Projections	2020	2024	2029	2030	2040	2050	2060	2070	2020-70
Plan Demand Proje	ction (in AF)								
Single Family	5,010	5,207	5,477	5,544	6,563	7,697	8,845	8,764	1.1%
Multi Family	309	242	162	146	134	210	292	290	-0.1%
ICI	1,427	1,202	938	888	878	1,188	1,504	1,428	0.0%
Sales Subtotal	6,745	6,651	6,577	6,578	7,575	9,095	10,641	10,482	0.9%
Other Uses	321	353	393	401	490	578	667	668	1.5%
Water Loss	861	853	849	850	983	1,178	1,378	1,358	0.9%
Production Total	7,927	7,857	7,819	7,829	9,048	10,851	12,685	12,508	0.9%
Water Loss %	11%	11%	11%	11%	11%	11%	11%	11%	0.0%





Best Management Practices

Probably Doing

- Conservation coordinator
- Pricing/rates
- Metering all connections
- System audit & loss control
- Public information

Strongly Consider

- Pricing/rates
- School education/public info
- Partnering with nonprofits
- Prohibiting water waste

Need to Consider

- Cost effective analysis
- Athletic field, golf course, and park conservation
- Landscape irrigation conservation and incentives
- Residential irrigation audits
- ICI programs
- Incentive programs
- Graywater
- Rainwater harvesting and reuse programs
- Wholesale agency assistance
- Small utility outreach

Considerations

- SCADA when used to monitor pressure to alert to the possibility of a leak could be considered part of a leak detection program.
- Customer portals/dashboards if the portal/dashboard is used by customers to view real time usage, this could be considered public education.
- **Plant tours** plant tours to students, civic groups, etc., could be considered public education.
- Know your audience tailor your messaging based on demographics. For instance, for an older population, bill inserts and pamphlets in the payment office probably work. For a mixed or younger population, then websites and social media should be included.

Details, Details!



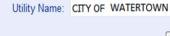
AR GPCD

Connections Data

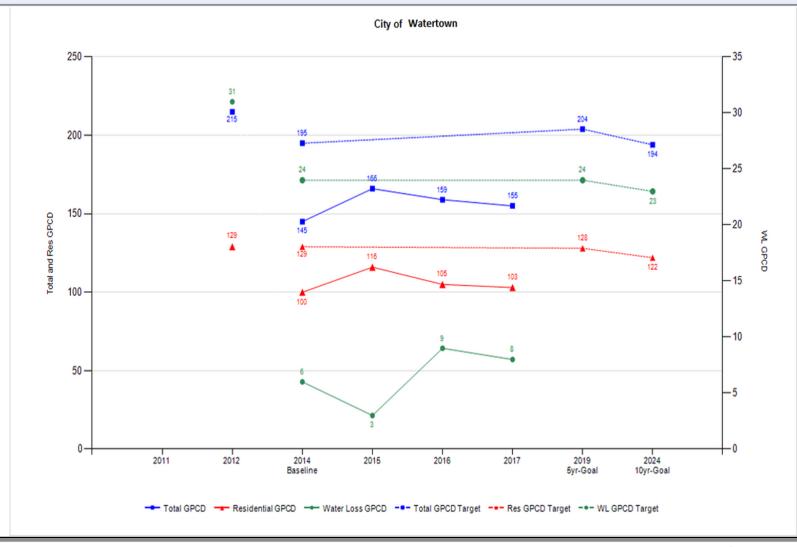
Water Use Data

Targets & Goals





Get Graph Report











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Utility Profile

Conservation Plan

Annual Report

Water Conservation Plan

5-AND 10-YR GOALS FOR WATER SAVINGS For Retail Water Supplier

Provide specific and quantified five- and 10-year goals in the table below.

In the first column, historic data, if available, from previously submitted annual reports has been entered.

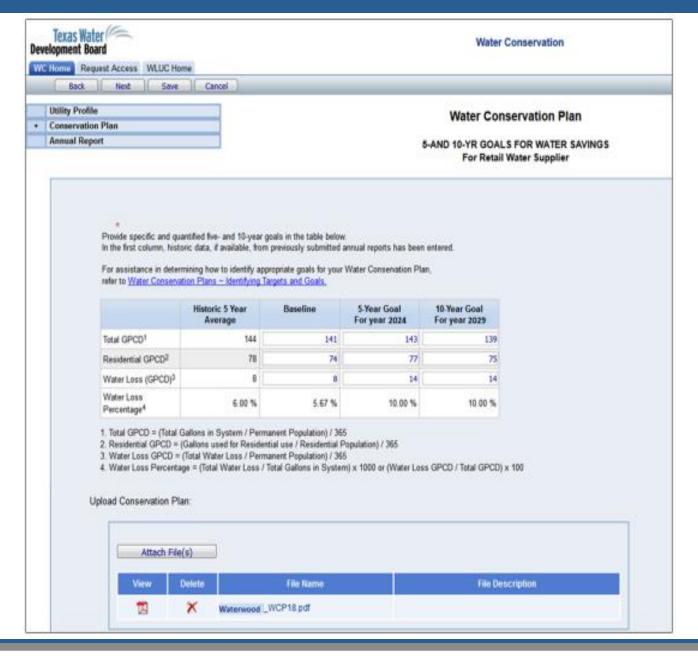
For assistance in determining how to identify appropriate goals for your Water Conservation Plan, refer to Water Conservation Plans ~ Identifying Targets and Goals.

	Historic 5 Year Average	Baseline	5-Year Goal For year 2023	10-Year Goal For year 2028
Total GPCD1	157		151	148
Residential GPCD ²	85		120	119
Water Loss (GPCD) ³	17		15	13
Water Loss Percentage ⁴	10.83 %	0.00 %	9.93 %	8.78 %

- 1. Total GPCD = (Total Gallons in System / Permanent Population) / 365
- 2. Residential GPCD = (Gallons used for Residential use / Residential Population) / 365
- 3. Water Loss GPCD = (Total Water Loss / Permanent Population) / 365
- 4. Water Loss Percentage = (Total Water Loss / Total Gallons in System) x 1000 or (Water Loss GPCD / Total GPCD) x 100

Upload Conservation Plan:

Attach File(s)









In Summary...

- Address the minimum requirements
- Consider best management practices
- Incorporate projects/activities
- Provide details!
- Utilize available resources
- Request an early review of draft
- Use plan as a beneficial tool
- Surface water right holders follow TCEQ rules



Resources

- **Best Management Practices** www.twdb.texas.gov/conservation/BMPs/index.asp
- Water Conservation Plans www.twdb.texas.gov/conservation/municipal/plans/index.asp
- Utility Profile www.twdb.texas.gov/conservation/municipal/plans/UP.asp
- Annual Reports www.twdb.texas.gov/conservation/municipal/plans/ARs.asp
- Historical Reports www.twdb.texas.gov/conservation/municipal/waterloss/histori cal-annual-report.asp

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