

## A4.3 The Level of Service Standard and Typical ERC Assumptions (Water Mechanics)

This Data Represents Statistical Supply and Demand information that paints the picture of an average water user or ERC, and further determines the expected level of service for a typical system customer.

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### i. SYSTEM CAPACITY COMPONENTS, DEFINITIONS, and their Relationships to Each Other:

[Click to See Definitions of Terms](#)

ELEMENTS		RELATIONSHIPS	SOURCES of DATA and VALUES CALCULATED per ERC		
SUPPLY Side Elements	A. SOURCE Capacity - Sc		1.40	gpm	The Physical Source as Tested or Measured, including the Source Capacity not entirely Developed (Asset)
			Undeveloped Capacity (may include a required State or regulatory reserve)		
	B. SOURCE Developed - Sd		1.28	gpm	The Total Available Source Capacity that is Equipped or Developed and may be Usable at Peak Periods (Asset)
			Regulatory De-Rating (Water Rights limits, or other required limits)		
DEMAND Side Elements	C. SUPPLY - S:		0.86	gpm	The Safe Yield or Legal Rating of Source, or Sc less Deductions imposed by State, Water Rights, Conservation, or Other Reserves (Potential)
			Varies - The Available or Unused Supply Reserve (Currently 20.01%)		
			Typically the same - (One Reserve is calculated from Source, other from User)		
	D. PRODUCTION - P:		0.69	gpm	The Actual Production of Water Delivered from the Supply (Real)
			Typically the Same - But may differ (Common Balance Sheet Elements)		
	E. DEMAND - D:		0.67	gpm	Consumption - Plus any Demand Side reserve imposed, includes Loss Factor. Supply and Demand may be equal. (Potential)
			Loss Factor - Lf (For Unmetered, leaks, etc. - Currently 9.58%)		
	Typically Loss Factor plus Available or Unused Supply Reserve (CD+DF)				
	F. CONSUMPTION - C:	0.61	gpm	The Actual Consumption of water as registered on User Meters (Real)	
	Typically the same as EF				
	G. USER - U:	0.67	gpm	The Physical Customer or End User(s) that are Metered and Billed for the Consumption. A User Impact is the Demand (Asset)	

## 1.0 State Regulation Source Standards and Supplier Mean Lot Size and ERC's (minimum requirements when actual data is unavailable):

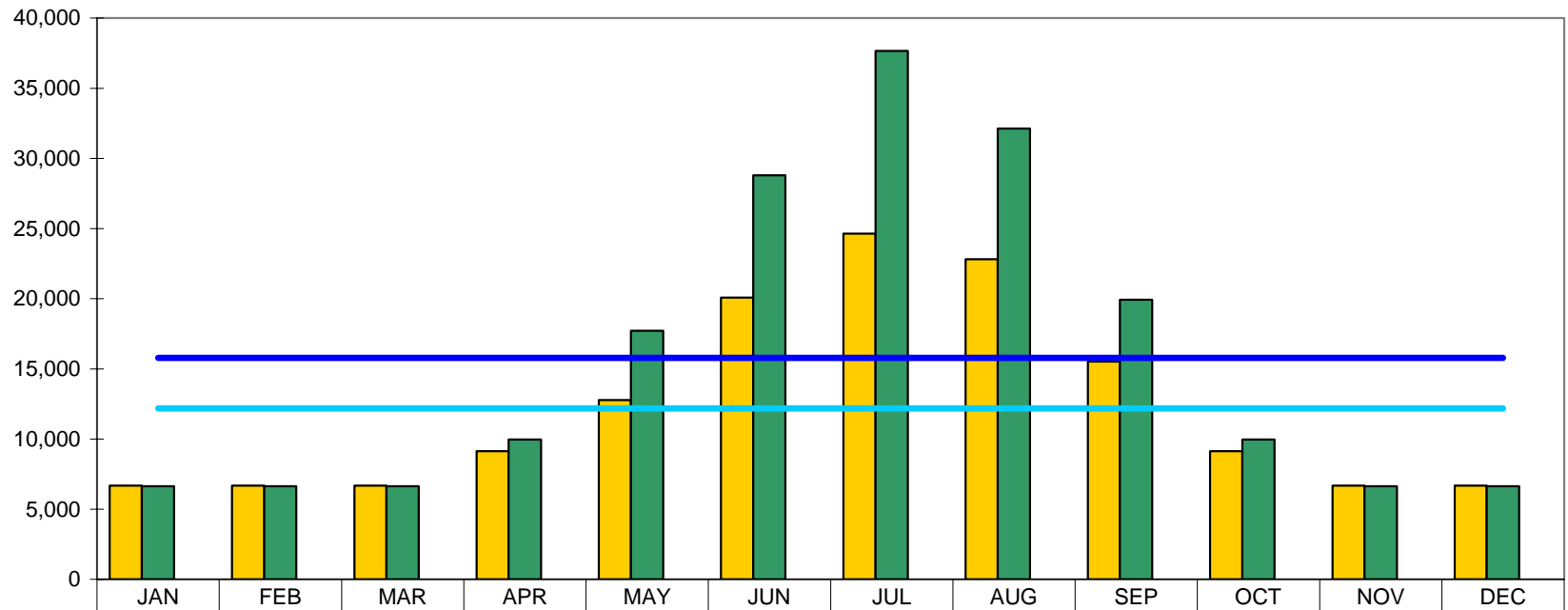
### BASIC STATE REGULATORY STANDARDS

1	State Irrigation Map Zone Used for this Area:	2	- or -
2	Indoor Annual ac-ft requirement per ERC:	0.45 acre-feet	146,000 gallons per Year
3	Indoor ADD gpm requirement per ERC:	0.28 gpm	400 gallons per day (gpd)
4	Indoor PDD gpm requirement per ERC:	0.56 gpm	800 gallons per day (gpd)
5	Indoor Usage Annual Peaking Factor used in State Standards:	2.00 pf	
6	Outdoor ac-ft per irrigated acre:	1.23 acre-feet	
7	Outdoor PDD gpm per irrigated acre:	2.80 gpm	
8	Source Reserve Requirement:	33.00%	Typical - Exemptions may be Granted

### BASIC STATE REGULATORY STANDARDS APPLIED TO A TYPICAL WATER SUPPLIER CUSTOMER LOT

9	Typical Lot Size:	0.20 Acres	- or -	8,712 Square Feet
10	Typical Home, Drive, and Non-Irrigated Area:	0.09 Acres		4,000 Square Feet
11	NET Average Irrigated Acres (AAI) of Land per Typical Lot or ERC:	0.11 Acres		4,712 Square Feet
12	Outdoor Irrigation Annual Yearly Demand AYD:	0.13 acre-feet		43,352 gallons per Year
13	Outdoor ADD gpm requirement per ERC:	0.08 gpm		119 gallons per day (gpd)
14	Outdoor PDD gpm requirement per ERC:	0.30 gpm		436 gallons per day (gpd)
15	TOTAL Annual Yearly Demand AYD per ERC (Indoor + Outdoor):	0.58 acre-feet		189,352 gallons per Year
16	TOTAL ADD gpm requirement per ERC (Indoor + Outdoor):	0.36 gpm		
17	TOTAL PDD gpm requirement per ERC (Indoor + Outdoor):	0.86	Minimum allowed Source gpm per ERC as per Standards *	
18	Typical Peaking Factor (pf) of this ERC utilizing State Regulatory Standards:	2.38	* No Calculation should be lower than this limit	

### STATE REGULATORY SOURCE STANDARDS MODEL



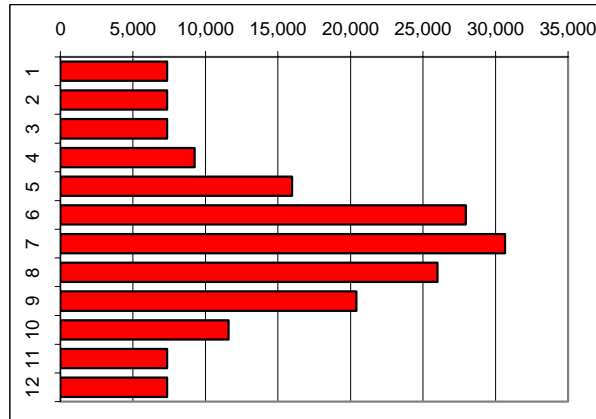
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<span style="color: yellow;">■</span> Indoor Demand	6,666	6,666	6,666	9,125	12,775	20,075	24,638	22,813	15,513	9,125	6,666	6,666
<span style="color: green;">■</span> TOTAL Demand	6,644	6,644	6,644	9,966	17,717	28,790	37,649	32,112	19,932	9,966	6,644	6,644
Total ADD	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779
<span style="color: blue;">—</span> TOTAL ADD	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779	15,779
<span style="color: cyan;">—</span> Indoor ADD	12,167	12,167	12,167	12,167	12,167	12,167	12,167	12,167	12,167	12,167	12,167	12,167

## 2.0 EXISTING SUPPLY CONDITIONS (Actual metered source production):

1 System: **XYZ System**  
 2 Fiscal Year of Metered Data: **2004**

NOTICE: These Meter readings may have been normalized over a more typical curve, to account for meter reading shifts between monthly periods or dates.

ANNUAL PROFILE in GALLONS per MONTH per ERC



Monthly Production from Source Meters:	
3	January
4	February
5	March
6	April
7	May
8	June
9	July
10	August
11	September
12	October
13	November
14	December
15	TOTAL

Monthly Meter Reads (gallons)	Monthly Meter Reads (ac-ft)	Percent of Peak Month	Percent of Annual Production	Production per ERC (gallons)	Average Production per Day (gallons)
9,700,000	29.770	24.01%	4.12%	7,360	237
9,700,000	29.770	24.01%	4.12%	7,360	263
9,700,000	29.770	24.01%	4.12%	7,360	237
12,200,000	37.443	30.20%	5.18%	9,256	309
21,050,000	64.604	52.10%	8.94%	15,971	515
36,841,800	113.071	91.19%	15.65%	27,953	932
40,400,000	123.991	100.00%	17.16%	30,653	989
34,273,900	105.190	84.84%	14.56%	26,004	839
26,889,450	82.526	66.56%	11.42%	20,402	680
15,280,820	46.898	37.82%	6.49%	11,594	374
9,700,000	29.770	24.01%	4.12%	7,360	245
9,700,000	29.770	24.01%	4.12%	7,360	237
<b>235,435,970</b>	<b>722.575</b>		<b>100.00%</b>	<b>178,631</b>	
<b>645,030</b>				<b>489</b>	
<b>1,303,226</b>				<b>989</b>	

Average Day Production - ADP (Averaged over a Year):  
 Peak Day Production - PDP (Averaged over a Month):

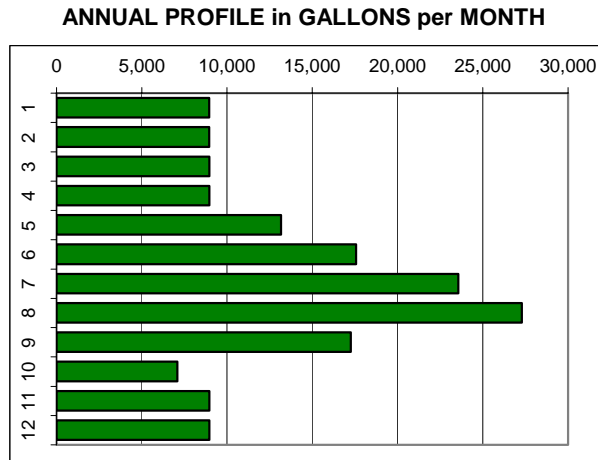
18	<b>Monthly Averaged Production Peaking Factor (P-pf):</b>	<b>2.02</b>	(A critical factor in determining the impact of a user on a supply)
19	<b>Current Average System Wide ERC's:</b>	<b>1,318</b>	from Consumption Sheet
20	Production ERC (ERC-P) in ac-ft / year:	<b>0.55</b>	ac-ft / yr
21	Production ERC (ERC-P) in gallons per year:	<b>178,631</b>	gallons
22	Production ERC (ERC-P) ADP:	<b>489</b>	gallons
23	Production ERC (ERC-P) PDP:	<b>989</b>	gallons
24	<b>ERC-P PDP:</b>	<b>0.69</b>	<b>gpm</b>

### 3.0 EXISTING RESIDENTIAL DEMAND CONDITIONS (Actual metered residential consumption):

1	Loss (Lf) Factor:
2	<b>1.10</b> (Lf) Used to Cover Losses, Unaccounted for Water, etc.
3	<b>8.75%</b>

NOTICE: These Meter readings may have been normalized over a more typical curve, to account for meter reading shifts between monthly periods or dates.

Monthly Demand from Residential Customers:	
4	January
5	February
6	March
7	April
8	May
9	June
10	July
11	August
12	September
13	October
14	November
15	December
16	<b>TOTAL</b>



Monthly Meter Reads (gallons)	Monthly Meter Reads (ac-ft)	Percent of Peak Month	Percent of Annual Consumption	Consumption per ERC (gallons)	Average Consumption per Day (gallons)
3,132,180	9.613	32.80%	5.60%	8,949	289
3,133,180	9.616	32.81%	5.61%	8,952	320
3,136,180	9.625	32.84%	5.61%	8,961	289
3,139,180	9.634	32.87%	5.62%	8,969	299
4,605,449	14.135	48.23%	8.24%	13,158	424
6,152,884	18.884	64.43%	11.01%	17,580	586
8,246,845	25.310	86.36%	14.75%	23,562	760
9,549,213	29.307	100.00%	17.08%	27,283	880
6,039,195	18.535	63.24%	10.80%	17,255	575
2,483,390	7.622	26.01%	4.44%	7,095	229
3,138,180	9.631	32.86%	5.61%	8,966	299
3,138,180	9.631	32.86%	5.61%	8,966	289
<b>55,894,054</b>	<b>171.544</b>		<b>100.00%</b>	<b>159,697</b>	
<b>153,134</b>				<b>438</b>	
<b>308,039</b>				<b>880</b>	

Average Day Consumption - ADC (Averaged over a Year):  
 Peak Day Consumption - PDC (Averaged over a Month):

19	<b>Monthly Averaged Consumption Peaking Factor (C-pf):</b>	<b>2.01</b>	(A critical factor in determining the impact of a user on system)
20	<b>Current Average System RESIDENTIAL Wide ERC's:</b>	<b>350</b>	from Consumption Sheet
21	Consumption ERC (ERC-C) in ac-ft / year:	<b>0.49</b>	ac-ft / yr
22	Consumption ERC (ERC-C) in gallons per year:	<b>159,697</b>	gallons
23	Consumption ERC (ERC-C) ADC:	<b>438</b>	gallons
24	Consumption ERC (ERC-C) PDC:	<b>880</b>	gallons
25	<b>ERC-C PDC:</b>	<b>0.61</b>	<b>gpm</b>

#### 4.0 Demand Level of Service Standards per ERC (the Design Impact of a User):

1	Total Annual Acre-Feet of Water Used by Each ERC:	0.49	ac-ft / yr
2	TOTAL Annual Production Gallons:	235,435,970	From Production Sheet
3	TOTAL Annual Consumption Gallons:	214,845,526	From Consumption Sheet
4	Annual SUPPLY SURPLUS / (DEFICIT) Gallons:	20,590,444	
5	Annual SUPPLY SURPLUS / (DEFICIT) Acre-Feet:	63.19	
6	Water Loss Factor (lf):	1.10	
7	Production to Consumption % or Lost and Unaccounted for Water:	8.75%	
8	Demand ERC (ERC-D) in gallons per year:	175,002	gallons / yr
9	Demand Side Average Day Demand (ADD):	479	gpd
10	Demand Side Peak Day Demand (PDD):	964	gpd
11	<b>Calculated and Assumed gpm Demand at PDD for a typical ERC (ERC-D):</b>	<b>0.67</b>	<b>The PDD gpm Demand Allocation of Water needed per ERC</b>
12	Demand Factor (df) for a typical ERC:	<b>1.00</b>	Used to show user demand variance from ideal pf (also a measure of conservation performance - set typically to 1.0)

#### 5.0 Water Rights Level of Service Standards per ERC:

1	Acre-Feet per Year Annual Yearly Consumption (AYC):	0.49	ac-ft / yr
2	Production to Consumption % of Lost and Unaccounted for Water:	8.75%	
3	Gallons per Year Needed for Annual Yearly Supply (AYS):	175,002	gallons / yr
4	Average Day Supply (ADS):	479	gpd
5	ADS in gpm:	0.33	gpm
6	Calculated Acre-Feet per Year Annual Yearly Supply (AYS):	0.54	ac-ft
7	Minimum AYS allowed by State or Regulation (1.15 above):	0.58	ac-ft
8	<b>Acre-Feet per Year Annual Yearly Supply (AYS):</b>	<b>0.58</b>	<b>The Supply ac-ft / ERC used to allocate water rights</b>

#### 6.0 Supply Level of Service Standards per ERC:

1	Peak Day Production per ERC (from 2.24 above) ERC-P PDP:	0.69	gpm
2	Regulatory Reserve Required on Supply Side:	<b>15.00%</b>	For Drought, etc...
3	<b>Required PDS in gpm as per Concurrency Requirements:</b>	<b>0.79</b>	<b>Normal ERC Peak gpm Supply Requirement</b>
4	Minimum Source gpm per ERC allowed as per State Standards (from 1.17 above):	0.86	gpm
5	<b>Peak Day Supply (PDS) Requirement per ERC (ERC-S) in gpm:</b>	<b>0.86</b>	<b>The PDS gpm Supply Allocation of Water per ERC</b>

#### 7.0 Source Level of Service Standards per ERC (or the Capacity of Source Needed in new source development):

1	State Required Source Reserve Requirement (from 1.8 above):	33.00%	Deducted by State to arrive at rating of source (Max Supply)
2	Source Development Requirement for a Peak Day:	1,845	gpd
3	<b>Minimum Source Development Requirement per ERC for a Peak Day in gpm:</b>	<b>1.28</b>	<b>The Peak Day gpm Source Allocation of Water per ERC</b>

### 8.0 Storage Level of Service Standards per ERC:

1	Minimum System Requirement of Storage per ERC:	1,000	
2	<b>Required Storage (PDD for 1 day from 4.10 above or 8.1, whichever is higher):</b>	1,000	The Basic Gallons of Storage Allocated per ERC
3	Fire Flow required at any ERC Location (as per Local Fire Authority):	1,500	gpm
4	Fire Flow Duration at any ERC location (as per Local Fire Authority):	120	Minutes
5	Fire Storage Requirements (available to any ERC):	180,000	gallons

### 9.0 Distribution System Level of Service Standards per ERC:

1	Total # of Residential ERC's in this analysis (used to adjust PID):	350					
2	Outdoor PID gpm per irrigated acre:	7.00	gpm	See Note 1			
3	Outdoor PID gpm per ERC:	0.76	gpm				
4	Indoor PID gpm per ERC:	1.31	gpm				
5	<b>Total Peak Instantaneous Demand (PID) per ERC:</b>	2.07	gpm				
6	Instantaneous Peaking Factor (i-pf):	6.21					
7	Minimum Normal Pressure:	45	psi				
8	Maximum Normal Pressure:	140	psi				
9	Fire Flow at any ERC Location:	1,500	gpm				
10	Fire Flow Duration:	120	Minutes				
11	Residual Pressure Required During Fire Event:	20	psi				
12	Assumed Pipeline Design Flow with a Fire Flow in Reserve in fps:	5.00	feet per second				
13	Assumed Pipeline Design Flow with a Fire Flow in USE in fps:	8.00	feet per second				
14							
15							
16							

Pipe Diameter (inches)	Pipe Capacity (gpm)	Pipeline ERC Capacity
4	196	95
6	440	213
8	783	379
10	1,223	592
12	1,762	852
14	2,398	1,159
16	3,132	1,514
18	3,963	1,916
20	4,893	2,366
22	5,921	2,863
24	7,046	3,407
30	11,010	5,324
36	15,854	7,666

**Note 1:** Item 9.1 should be set to a value that causes 9.6 or the Instantaneous Peaking factor (i-pf) to become a value between 4.00 and 7.00 or close thereto.

**10.0 Types of Users and Associated Demands or Impacts as per this Model:**

The Demand Factors (df) calculated in this Section may be used if desired to adjust the Impact Fees and possibly User Rates by a factor referencing Residential Demand ERC's at 1.0. This allows different types of users to not only be assessed on an ERC volume basis, but also on a peaking or seasonal impact.

		Gallons of Each Type	Acre-Feet of Each Type	ERC's of Each Type	% of TOTAL DEMAND	Peaking Factor pf	Demand Factor df
1	<b>YEAR OF DATA for this Analysis:</b>	<b>2004</b>	<b>2004</b>	<b>2004</b>	<b>2004</b>	<b>2004</b>	<b>2004</b>
2	Residential (Typical)	55,894,054	171.54	350	28.64%	2.01	1.00
3	Large Estate	19,507,417	59.87	357	9.99%	2.43	1.21
4	Condo/Apartment	9,703,370	29.78	123	4.97%	2.22	1.10
5	Town House	1,194,100	3.66	25	0.61%	1.28	0.64
6	Commercial	108,877,176	334.15	383	55.78%	3.31	1.65
7	Industrial	0	0.00	0	0.00%	0.00	0.00
8	Government	0	0.00	0	0.00%	0.00	0.00
9	Golf Course	0	0.00	0	0.00%	0.00	0.00
10	Recreation	0	0.00	0	0.00%	0.00	0.00
11	Ag. or Irrigation	19,669,409	60.37	80	10.08%	3.41	1.70
12	Construction (Temp)	0	0.00	0	0.00%	0.00	0.00
13	0	0	0.00	0	0.00%	0.00	0.00
14	<b>TOTAL:</b>	<b>195,176,117</b>	<b>599.01</b>	<b>1,238</b>	<b>100.00%</b>	<b>2.75</b>	<b>1.37</b>

**11.0 Affordable Housing Impact Fee Credits:**

1	<b>MEDIAN Household Income (MHI) of System Area as per Latest Census:</b>	<b>48,000.00</b>	dollars	* This section is useful if a system is mandated to provide affordable housing benefits to its customers. Impact Fee Credits should be based on a written certification from a appointed or recognized Housing Authority or State or Federal Agency that the Housing is certified as "Affordable" or "Obtainable" under Federal Standards, and that the Applicant meets Federal Standards.
2	Low to Moderate Family Income (LMI) Level (80% of MHI):	38,400.00	dollars	
3	Low Income Level (50% of MHI):	24,000.00	dollars	
4	Percent of MHI used for Annual Water User Fees:	1.50%		
5	<b>Maximum Average Annual Water Fee Allowed as per MHI Limit:</b>	<b>720.00</b>	dollars	
6	<b>Average Monthly Water Fee Allowed as per MHI Limit:</b>	<b>60.00</b>	dollars	
7		<b>Certified * Household Income Level</b>	<b>% of Normal Impact Fee Payable</b>	
8	Level 1 Example:	38,400.00	100.00%	
9	Level 2 Example:	34,560.00	90.00%	
10	Level 3 Example:	30,720.00	80.00%	
11	Level 4 Example:	26,880.00	70.00%	
12	Level 5 Example:	23,040.00	60.00%	
13	Level 6 Example:	19,200.00	50.00%	
	Level 7 Example:	19,200.00 and Below	50.00%	

## 12.0 Demographic, Per-Capita Water Usage, and Other System Data:

1	Total Annual Production Gallons:	235,435,970	from 2.15 above	NOTE: For Purposes of this Analysis, a Census Household is Assumed to be 1.0 SYSTEM Residential ERC.
2a	Total Annual Residential Consumption Gallons:	55,894,054	from 3.16 above	
2b	Additional Residential Gallons not listed in the Standard Residential Type:	100,000,000		
3	Residential Consumption Peaking Factor (Res. C-pf):	2.01	from 3.19 above	
4a	Residential ERC's Serviced by District:	350	from 3.20 above	
4b	Additional Residential ERC's not listed in the Standard Residential Type:	505		
5	Average Household Size in System as per latest Census:	2.80	persons per Household	
6	TOTAL Household Population Estimate of District:	2,394	people	
7	<b>Statewide Median Household Income (from 2000 census):</b>	<b>40,000</b>	dollars	This Data compares an average State of water bill, as a percentage of Median Household Income (MHI), and then derives a corresponding rate for the System based on similar Income levels relative to the System.
8	Average Statewide Monthly Water Bill (including taxes):	33.89	dollars (NOTE 1)	
9	Average Statewide Annual Water Bill (including taxes):	406.68	dollars	
10	Annual Statewide Water Cost as a percent of Median Household Income:	1.02%		
11	<b>Equivalent Monthly Water Rate in System using Average State Rate:</b>	<b>40.67</b>	dollars	
12	<b>Equivalent Annual Water Rate in System using Average State Rate:</b>	<b>488.02</b>	dollars	
13	ADC Gallons per Capita per Year:	65,119	gallons	This Data Represents the Water Consumption of a Single Residential Person in the System Line 15 would equate to a typical wastewater system unit impact (one individuals water use per day indoors, or in the winter).
14	<b>ADC Gallons per Capita per Day (GPCD):</b>	<b>178</b>	gallons	
15	<b>INDOOR ADC Gallons per Capita per Day (GPCD):</b>	<b>118</b>	gallons	
16	<b>OUTDOOR ADC Gallons per Capita per Day (GPCD):</b>	<b>61</b>	gallons	
17	<b>STATE Average GPCD in Similar or Statewide Communities:</b>	<b>183</b>	gallons (NOTE 2)	
18	<b>Percent of State Average GPCD:</b>	<b>97.49%</b>		
19	ADC gpm per Capita per Day:	0.12	gpm	
20	AYC in Acre-Feet per Year per Capita:	0.20	ac-ft	
21	<b>PDC Gallons per Capita per Day:</b>	<b>359</b>	gallons	
22	PDC gpm per Capita per Day:	0.25	gpm	
23	ADP Gallons per Capita per Year:	98,344	gallons	This Data Represents the Impacts, Demands, or Needs a Single Residential Person in the System has upon Source or Supply Development. This section Factors in Commercial and Non-Residential type demands into the equations.
24	<b>ADP Gallons per Capita per Day:</b>	<b>269</b>	gallons	
25	<b>INDOOR ADP Gallons per Capita per Day:</b>	<b>178</b>	gallons	
26	ADP gpm per Capita per Day:	0.19	gpm	
27	AYP in Acre-Feet per Year per Capita:	0.30	ac-ft	
28	<b>PDP Gallons per Capita per Day:</b>	<b>542</b>	gallons	
29	PDP gpm per Capita per Day:	0.38	gpm	

30	Average gpm Supply Capacity of a Well or Other type of Source:	400	from Internal Data	This data represents the average cost per ERC and per population equivalent (per capita) of typical water source development in the System.
31	Average Cost of a Fully Developed Well Source:	450,000	dollars	
32	Average Cost per gpm for Source Development:	1,125	dollars	
33	Total Source gpm Required Development per ERC:	1.28	from 7.3 above	
34	<b>Average Cost per ERC for Well Source Development:</b>	<b>1,441</b>	<b>dollars</b>	
35	<b>Average Cost per Capita for Well Source Development:</b>	<b>515</b>	<b>dollars</b>	
36	TOTAL System ERC's:	1,318	from 2.19 above	This calculation derives a relative District size if all uses were residential.
37	System Relative ERC Population:	3,690	people	

**SOURCES of Information:**

NOTE 1: \_\_\_\_\_  
NOTE 2: \_\_\_\_\_

**13.0 Water Rate Curve**

		CURRENT Period SUPPLY Production	Production per ERC	Maximum Base	Standard Overage Allocation	High Overage Allocation	Excessive Overage	
1	NOTE: This method of establishing rate blocks is simple, based on annual source production (Production relates better to system impacts and is metered year round), related to each ERC's demands on the production. Base is simply the 5 months of winter production per ERC, spread evenly throughout the year. High Overage Allocation limit is the high Peaking Factor month, and standard overage is the average of the base and the peak. This creates overage block widths that can be carried above the high, into the excessive and beyond, which blocks are indicative of users beyond the normal demand curve of the system. This often provides a unique starting point for establishing rates.	January	9,700,000	7,360	7,360			
2		February	9,700,000	7,360	7,360			
3		March	9,700,000	7,360	7,360			
4		April	12,200,000	9,256	7,360	19,006	30,653	42,299
5		May	21,050,000	15,971	7,360	19,006	30,653	42,299
6		June	36,841,800	27,953	7,360	19,006	30,653	42,299
7		July	40,400,000	30,653	7,360	19,006	30,653	42,299
8		August	34,273,900	26,004	7,360	19,006	30,653	42,299
9		September	26,889,450	20,402	7,360	19,006	30,653	42,299
10		October	15,280,820	11,594	7,360	19,006	30,653	42,299
11		November	9,700,000	7,360	7,360			
12		December	9,700,000	7,360	7,360			
13	TOTAL:	235,435,970	178,631	88,316	133,042	214,568	296,093	
14	Average Day Production - ADP (Averaged over a Year):	645,030	489	242	364	588	811	
15	Peak Day Production - PDP (Averaged over a Month):	1,303,226	989	237	613	989	1,364	
16	Total Block Width:			7,360	11,646	11,646	11,646	

17	<b>Monthly Averaged Production Peaking Factor (P-pf):</b>	<b>2.02</b>
18	<b>Current Average System Wide ERC's:</b>	<b>1,318</b>
19	Production ERC (ERC-P) in ac-ft / year:	0.55
20	Production ERC (ERC-P) in gallons per year:	178,631
21	Production ERC (ERC-P) ADP:	489
22	Production ERC (ERC-P) PDP:	989
23	<b>ERC-P PDP:</b>	<b>0.69</b>

24	<b>Annual Income per ERC Required:</b>	<b>840</b>
25	Theoretical Revenue Possible (assuming all rates are the same):	1,107,120
26	<b>Base Monthly Rate Desired:</b>	<b>50</b>
27	Total Annual Base Charge Revenue:	600
28	Total Annual Overage Charge Revenue:	240
29	<b>Block Billing Unit Gallons</b>	<b>1,000</b>

		<b>TOTAL Overage Gallons</b>	<b>Standard Overage Block Gallons</b>	<b>High Overage Block Gallons</b>
30	April	1,897	1,897	0
31	May	8,612	8,612	0
32	June	20,593	11,646	8,947
33	July	23,293	11,646	11,646
34	August	18,645	11,646	6,998
35	September	13,042	11,646	1,396
36	October	4,234	4,234	0
37	<b>TOTAL</b>	<b>90,316</b>	<b>61,328</b>	<b>28,987</b>
38	<b>Number of Unit Blocks</b>	<b>90.32</b>	<b>61.33</b>	<b>28.99</b>
39	Revenue Needed in Overages	240.00	162.97	77.03
40	Average Cost per Unit Block:	2.66	2.66	2.66
41	<b>Escalation Factor per Block Desired:</b>	<b>1.50</b>		
42	SET Standard Overage Rate (at a level that line 39 or 28 equals 43):		<b>2.30</b>	<b>3.45</b>
43		<b>241.06</b>	<b>141.06</b>	<b>100.01</b>
44	<b>Standard Overage:</b>	<b>2.30</b>		
45	<b>Excessive Overage Unit Rate</b>	<b>5.18</b>		
46	<b>Abusive Unit Rate</b>	<b>7.76</b>		
47	<b>Outragous Unit Rate</b>	<b>11.64</b>		