

### C3.4 WATER RATE MODEL for the Existing - Residential Low Rate

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Model Category: **Existing**

Rate Name: **Residential Low Rate**

#### ASSUMPTIONS:

Peak Month Gallons Assumption:	30,000	Gal.
OR Annual Gallons Use Assumption:	280,000	Gal.
Pick Peak Month or Annual Usage Assumption:	Annual	
Number of Customers or ERC's of this Type or Area:	459	
Estimated Annual Median Household Income:	55,000	\$

#### MONTHLY RATE:

Base Gallon Allowance:	5,000	Gal.
Base Fixed Rate:	55.00	\$
Base Rate per 1,000 Gals:	11.00	\$
Overage is Calculated Each:	1,000	Gal.

Customer Area or Type: **Residential**

	Block gal. Increments	Full Block Value	Overage Block Titles	
Overage Rate 1 per 1,000 Gal:	3.00 \$	5,000	15.00	Standard Overage
Overage 1 Cut-Off Gallons:	10,000 Gal.			
Overage Rate 2 per 1,000 Gal:	4.00 \$	10,000	40.00	High
Overage 2 Cut-Off Gallons:	20,000 Gal.			
Overage Rate 3 per 1,000 Gal:	5.00 \$	10,000	50.00	Excessive
Overage 3 Cut-Off Gallons:	30,000 Gal.			
Overage Rate 4 per 1,000 Gal:	6.00 \$	0	0.00	Abusive
Overage 4 Cut-Off Gallons:	Gal.			
Overage Rate 5 per 1,000 Gal:	\$	No Limit	No Limit	Outrageous
Overage 5 Cut-Off Gallons:	No Limit Gal.			

#### ANNUAL PROFILE:

Enter the Monthly Use Percent, as a Percent of Total Annual Use (Required)			
January	4.38%	July	16.88%
February	4.38%	August	15.63%
March	4.38%	September	10.63%
April	6.25%	October	6.25%
May	8.75%	November	4.38%
June	13.75%	December	4.38%

USAGE MODEL:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	MAXIMUM
Meter Read Status:	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No		
Percent of Peak:	25.93%	25.93%	25.93%	37.04%	51.85%	81.48%	100.00%	92.59%	62.96%	37.04%	25.93%	25.93%		100.00%
Peak Mo. Gallons:	47,250	47,250	47,250	47,250	47,250	47,250	47,250	47,250	47,250	47,250	47,250	47,250		
Calc. Gallons per Month:	12,250	12,250	12,250	17,500	24,500	38,500	47,250	43,750	29,750	17,500	12,250	12,250	280,000	47,250
Base Galons:	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	60,000	5,000
Overage Block 1 gallons:	0	0	0	0	5,000	5,000	5,000	5,000	5,000	0	0	0	25,000	5,000
Overage Block 2 gallons:	0	0	0	0	10,000	10,000	10,000	10,000	10,000	0	0	0	50,000	10,000
Overage Block 3 gallons:	0	0	0	0	4,500	10,000	10,000	10,000	9,750	0	0	0	44,250	10,000
Overage Block 4 gallons:	0	0	0	0	0	8,500	17,250	13,750	0	0	0	0	39,500	17,250
Overage Block 5 gallons:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Gallons / Month:	5,000	5,000	5,000	5,000	24,500	38,500	47,250	43,750	29,750	5,000	5,000	5,000	218,750	47,250
Gals. lost from No reads:	7,250	7,250	7,250	12,500	0	0	0	0	0	12,500	7,250	7,250	61,250	12,500

REVENUE MODEL:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	MAXIMUM
Base Seasonal Multiplier:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Overage Seasonal Mult.:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Base Rate:	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	660.00	55.00
Overage 1 Fee:	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00	0.00	75.00	15.00
Overage 2 Fee:	0.00	0.00	0.00	0.00	40.00	40.00	40.00	40.00	40.00	0.00	0.00	0.00	200.00	40.00
Overage 3 Fee:	0.00	0.00	0.00	0.00	22.50	50.00	50.00	50.00	48.75	0.00	0.00	0.00	221.25	50.00
Overage 4 Fee:	0.00	0.00	0.00	0.00	0.00	51.00	103.50	82.50	0.00	0.00	0.00	0.00	237.00	103.50
Overage 5 Fee:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL FEE:	55.00	55.00	55.00	55.00	132.50	211.00	263.50	242.50	158.75	55.00	55.00	55.00	1,393.25	263.50
Rev. lost from No reads:	24.00	24.00	24.00	45.00	0.00	0.00	0.00	0.00	0.00	45.00	24.00	24.00	210.00	45.00

RATE STRUCTURE and STATISTICS:	
Total Annual Revenue per Customer:	1,393.25
Average per Month per Customer:	116.10
Peak Month Fee per Customer:	263.50
Rate Peaking Factor:	2.27
Base Rate to Peak Month Factor:	4.79
Total Base Rate Revenue per Customer:	660.00
Total Overage Rate Revenue per Customer:	733.25
Annual Rate as a Percent of Median Household Income:	2.53%
Total Revenue for this Type of Customer:	639,502
Total Base Revenue for this Type or Area of Cust:	302,940
Total Overage Revenue for this Type or Area of Cust:	336,562
Potential Revenue Lost from Non-Read Meter Months:	96,390
Average Revenue per 1,000 Gallons:	4.98
Average Revenue per Acre-Foot:	1,621
Base Gallons:	60,000
Base Revenue per 1,000 Gallons:	11.00
Overage Gallons:	158,750
Overage Revenue per 1,000 Gallons:	4.62

USAGE or DEMAND STRUCTURE:	Single Unit	All Units
Gallons per Year:	280,000	128,520,000
Ac-Ft per Year (AYD):	0.86	394
Peak Demand Gallons per Day (PDD):	1,524	699,605
Average Demand Gallons per Day (ADD):	767	352,110
PDD - gpm:	1.06	486
ADD - gpm:	0.53	245
Typical Peak Hour Demand (PHD) gpm:	1.33	611
Typical Peak Instantaneous Demand (PID) gpm:	2.66	1,223
Peaking Factor:	2.03	2.03
Average Winter Non-Read Use per Month (gallons):	13,750	6,311,250
Average Winter Non-Read Use per Year (gallons):	96,250	44,178,750
Estimated Indoor Use (gallons):	147,000	67,473,000
Estimated Outdoor Use (gallons):	133,000	61,047,000

<b>C<sup>3</sup> (Cubic Conservation Curve) or Polynomial Rate:</b>	$Y = -3.23058E-13 X^3 + 6.14032E-08 X^2 + 0.002395935 X + 55.00$	<b>R<sup>2</sup>:</b> 0.99968692
		<b>ROOT:</b> 226174.756



