

# Water Consumption Analysis

September 15, 2015

Walter 'Buzz' Pishkur, Director of Water Utilities



Walter Pishkur  
4009 Hubbard Way

Acct.# 100367100  
Pit: Northwest Corner

	Reading	Usage
September		?
August	160	38
July	122	23
June	099	27
May	072	24
April	048	16
March	032	15
February	017	16
January	001	0

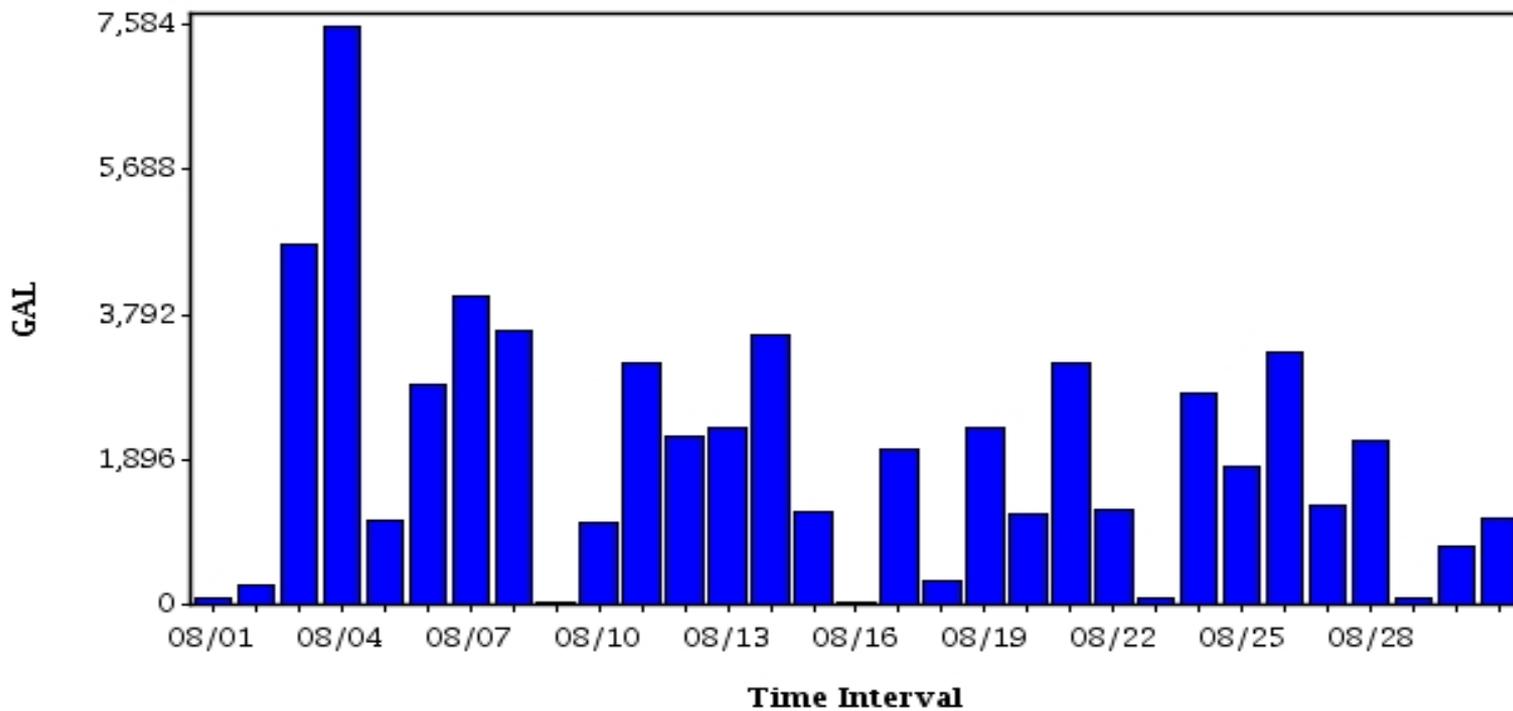
New Meter Set

# AMI Meter Installation Status Report

Description	Count
FY 2015 – Number of Meter Interface Units* Installed	8,880
FY 2015 – Number of Meters Installed	5,122
Total Active Meter Interface Units	34,053
Total Meters In System	107,912

\*Meter Interface Unit - MIU

August 1, 2015 to August 31, 2015

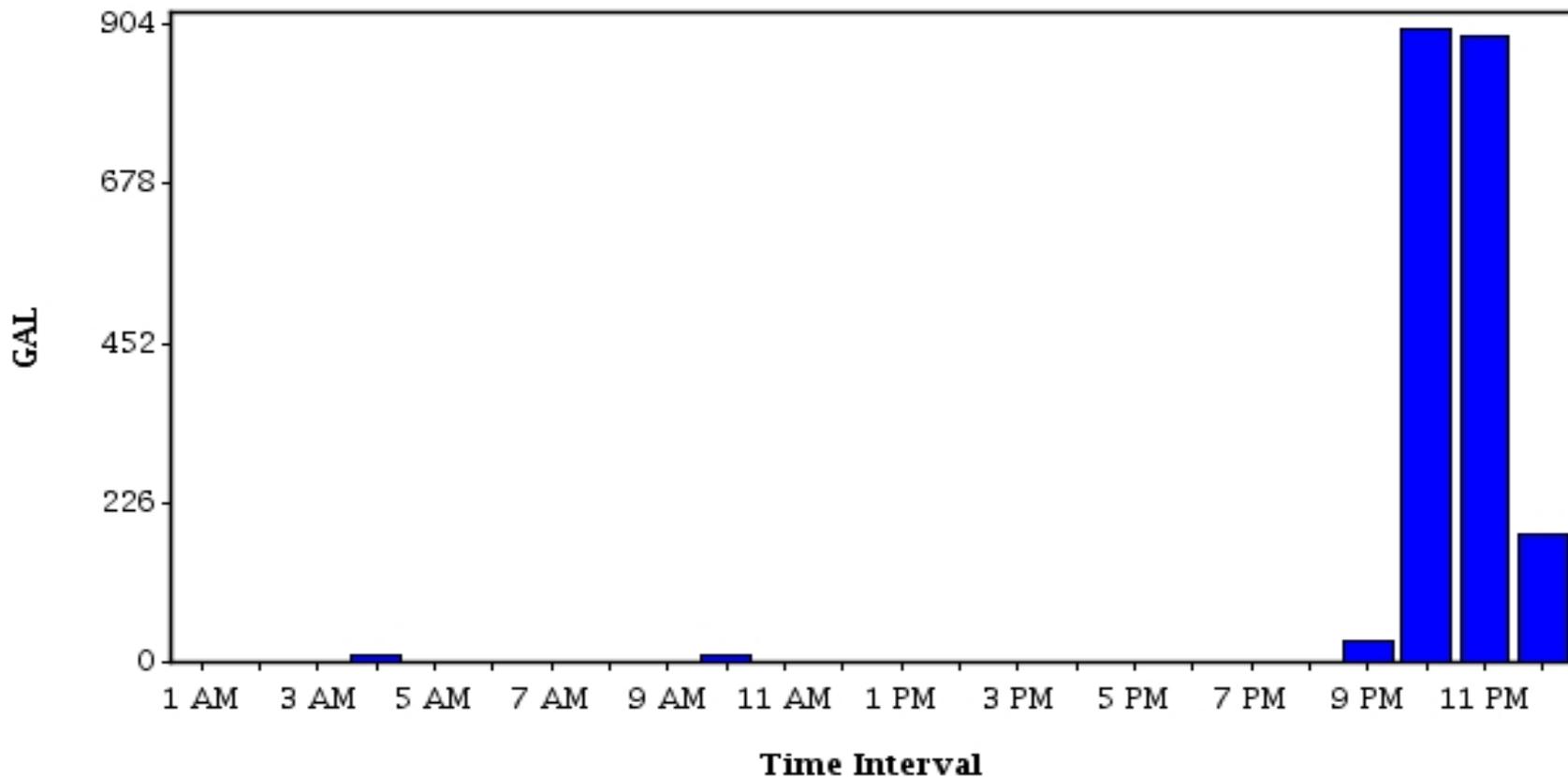


■ Current

Gallons Used 60,600  
\$271.51

Example of daily water usage

August 17, 2015 12 AM to August 18, 2015 12 AM

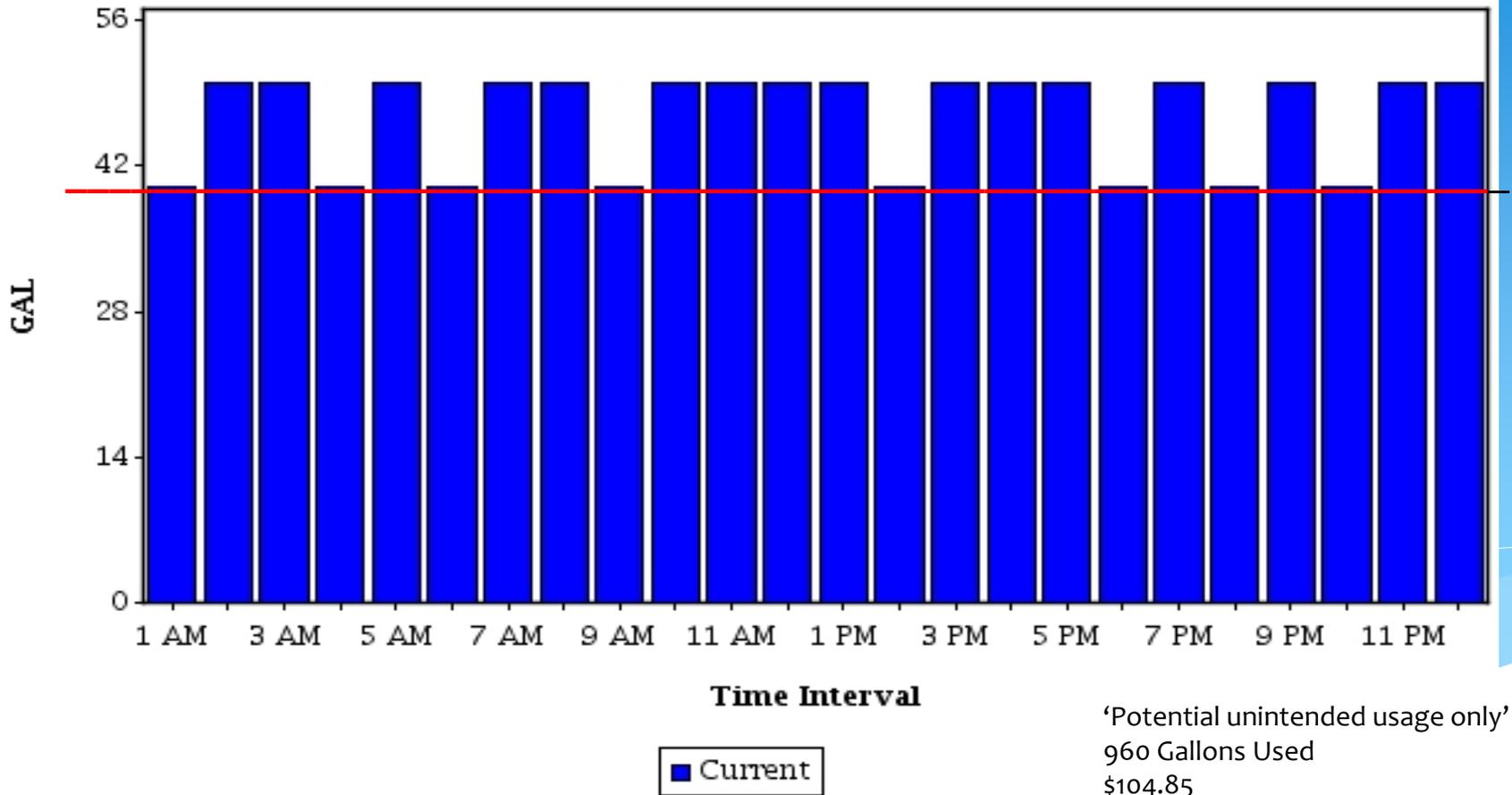


■ Current

60,600 Gallons Used  
\$271.51

Example of hourly water usage

August 8, 2015 12 AM to August 9, 2015 12 AM



Example of hourly intervals that shows water usage hourly for 24 hours

# Total Water Production in Millions of Gallons

## Month of August

<u>Day of Month</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2011</u>
1	88.719	62.137	80.525	112.055
2	88.102	70.400	77.743	110.860
3	88.193	74.362	85.519	114.081
4	88.932	68.112	90.711	114.328
5	95.913	64.754	69.254	113.561
6	97.313	86.065	77.897	108.639
7	99.324	82.262	93.697	107.779
8	91.614	82.733	87.429	110.545
9	97.284	83.593	81.218	110.412
10	89.609	88.792	91.900	109.590
11	90.926	69.546	93.849	106.585
12	93.797	74.866	72.489	107.764
13	104.259	88.823	71.674	72.501
14	92.344	87.508	60.783	72.887
15	91.509	86.643	47.303	96.238

# Total Water Production in Millions of Gallons cont.

<b>Month of August</b>				
<b><u>Day of Month</u></b>	<b><u>2015</u></b>	<b><u>2014</u></b>	<b><u>2013</u></b>	<b><u>2011</u></b>
16	95.797	77.971	63.819	92.248
17	84.016	60.447	60.822	107.982
18	96.387	52.812	70.829	102.592
19	85.000	61.762	66.444	105.100
20	74.226	65.555	68.218	97.319
21	74.479	72.958	81.727	103.538
22	88.493	75.709	80.791	105.501
23	91.966	73.231	102.853	71.923
24	83.935	83.453	99.380	82.648
25	80.667	70.383	90.983	92.540
26	84.842	69.700	71.403	95.190
27	97.349	81.517	72.260	96.136
28	84.819	75.453	87.182	101.637
29	84.305	67.878	87.016	81.955
30	92.113	67.431	78.350	78.185
31	<u>88.919</u>	<u>70.508</u>	<u>89.588</u>	<u>95.342</u>
	<u><u>2,785.151</u></u>	<u><u>2,295.253</u></u>	<u><u>2,408.107</u></u>	<u><u>3,125.385</u></u>

# Billed Water Consumption

(000's Gallons)				
	2011	2013	2014	2015
June	1,576,953	1,516,119	1,535,894	1,240,937
July	2,466,108	1,816,418	1,723,401	1,588,395
August	3,049,566	2,098,471	1,886,395	2,218,857
Total	7,092,627	5,431,008	5,145,690	5,048,189

Number of Customers Requested Meter Rereads			
	2011	2014	2015
June	58	117	133
July	130	90	83
August	260	94	182

Number of Accounts Adjusted due to Misread Meter			
	2011	2014	2015
June	10	24	43
July	2	8	18
August	6	11	12

- \*Current public debate over high consumptions is a statewide issue!
- \*This is why we treat every inquiry with proper attention
- \*We receive high consumption inquiries year-round
- \*Billing accuracy 99.99%

**Information on water rates effective January 1, 2015, is available in Tables 1-6 below. Table 7 is an example bill calculation.**

**WATER CONSERVATION RATES: Use Water Wisely!**

**TABLE 1** Water rates per 1,000 gallons for all residential, duplex, residential builder and individual mobile home account classifications.

<b>Residential Block Structure</b>	
<b>Usage (1,000 gal)</b>	<b>Rate</b>
0 - 2	\$1.78
3 - 10	\$2.46
11 - 15	\$3.55
16 - 29	\$4.22
≥ 30	\$5.24

**TABLE 2** Water rates for all commercial, apartment, institutional and high volume meter account classifications.

<b>Commercial Block Structure</b>	
<b>Usage (1,000 gal)</b>	<b>Rate</b>
0 - 15	\$2.40
≥ 16	\$2.67

**TABLE 3** The per 1,000 gallon charge for all meters used for sprinkler accounts, regardless of account classification.

<b>Irrigation Block Structure</b>	
<b>Usage (1,000 gal)</b>	<b>Rate</b>
0 - 29	\$4.22
≥ 30	\$5.24

**TABLE 4** Water rates for all construction meter account classifications.

<b>Construction Block Structure</b>	
<b>Usage (1,000 gal)</b>	<b>Rate</b>
0 - 99	\$5.52
≥ 100	\$6.96

**SEWER RATES**

**TABLE 5**

<b>All Classifications Block Structure</b>	
<b>Usage (1,000 gal)</b>	<b>Rate</b>
All Usage	\$3.70

**FY 2015 FIXED MONTHLY FEES** **TABLE 6**

<b>Meter Size</b>	<b>Water</b>	<b>Sewer</b>
3/4" (≤ 2,000 gal) Residential only	\$5.60	\$4.90
3/4" (>2,000 gal) Residential and all other customer classes	\$9.00	\$8.90
1"	\$15.00	\$15.50
1-1/2"	\$34.30	\$35.30
2"	\$60.00	\$58.20
3"	\$141.00	\$119.00
4"	\$225.00	\$194.00
6"	\$524.00	\$477.00
8"	\$820.00	\$694.00
10"	\$1,232.00	\$1,029.00

**EXAMPLE**

**TABLE 7**

The following **example** billing calculation is for a residential customer with a 3/4" meter using 10,000 gallons of water on a domestic meter (*serving the inside of the home*) and 6,000 gallons of sewer. This is an increase of \$2.84 or 4.69% per month:

<b>W</b> <b>C</b> <b>H</b> <b>A</b> <b>R</b> <b>E</b> <b>R</b> <b>G</b> <b>E</b>	Fixed fee	\$ 9.00
	First 2,000 gallons (2 x \$1.78)	\$ 3.56
	Next 8,000 gallons (8 x \$2.46)	<u>\$19.68</u>
	TOTAL water	\$32.24
<b>S</b> <b>C</b> <b>H</b> <b>E</b> <b>R</b> <b>E</b> <b>R</b> <b>G</b> <b>E</b>	Fixed fee	\$ 8.90
	6,000 gallons (6 x \$3.70)	<u>\$22.20</u>
	TOTAL sewer	\$31.10
<b>TOTAL Water and Sewer Charge</b>		\$63.34

For any classification of customer with a sprinkler system tied into their domestic account (i.e., the meter is not being used as a sprinkler meter exclusively), the billings will be calculated using the residential or commercial block rates and not the irrigation block rates.

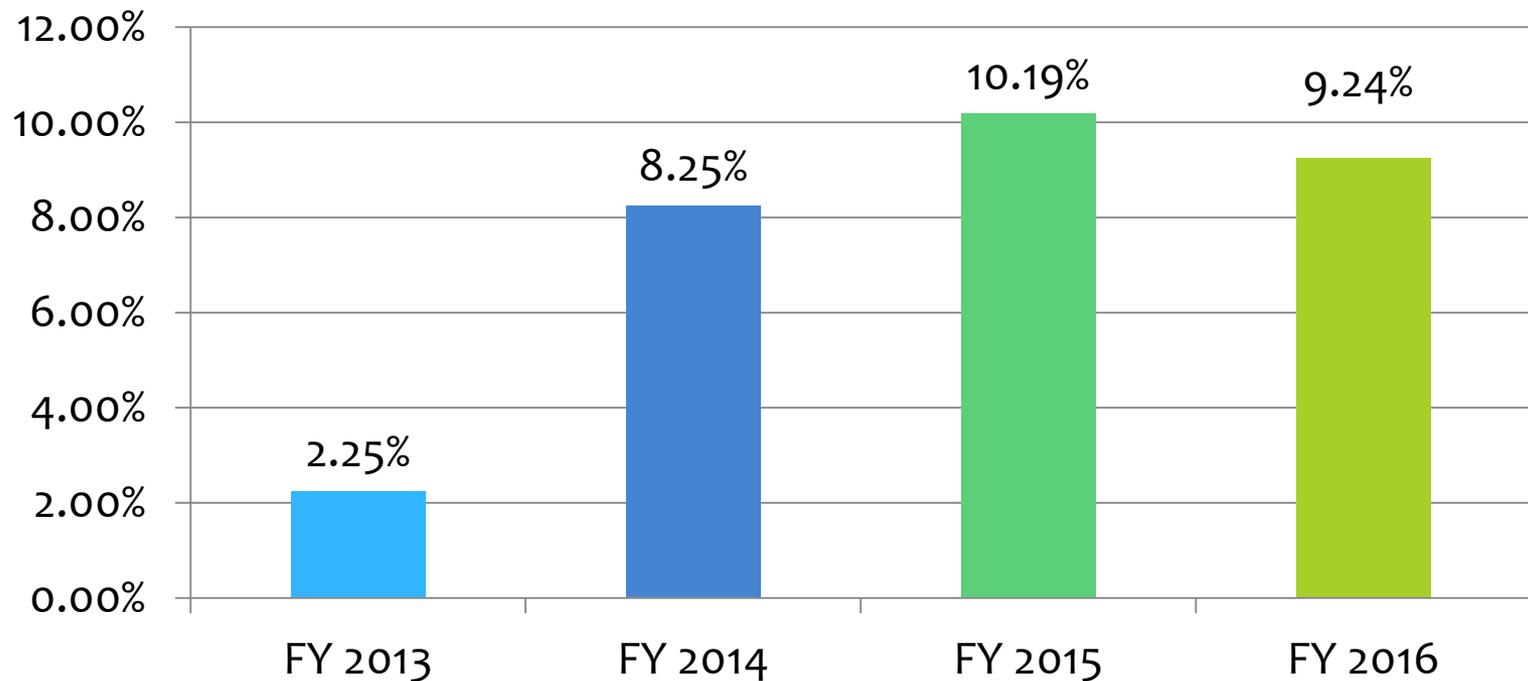
**Save Water,  
NOTHING can replace it.**

[www.savearlingtonwater.com](http://www.savearlingtonwater.com)

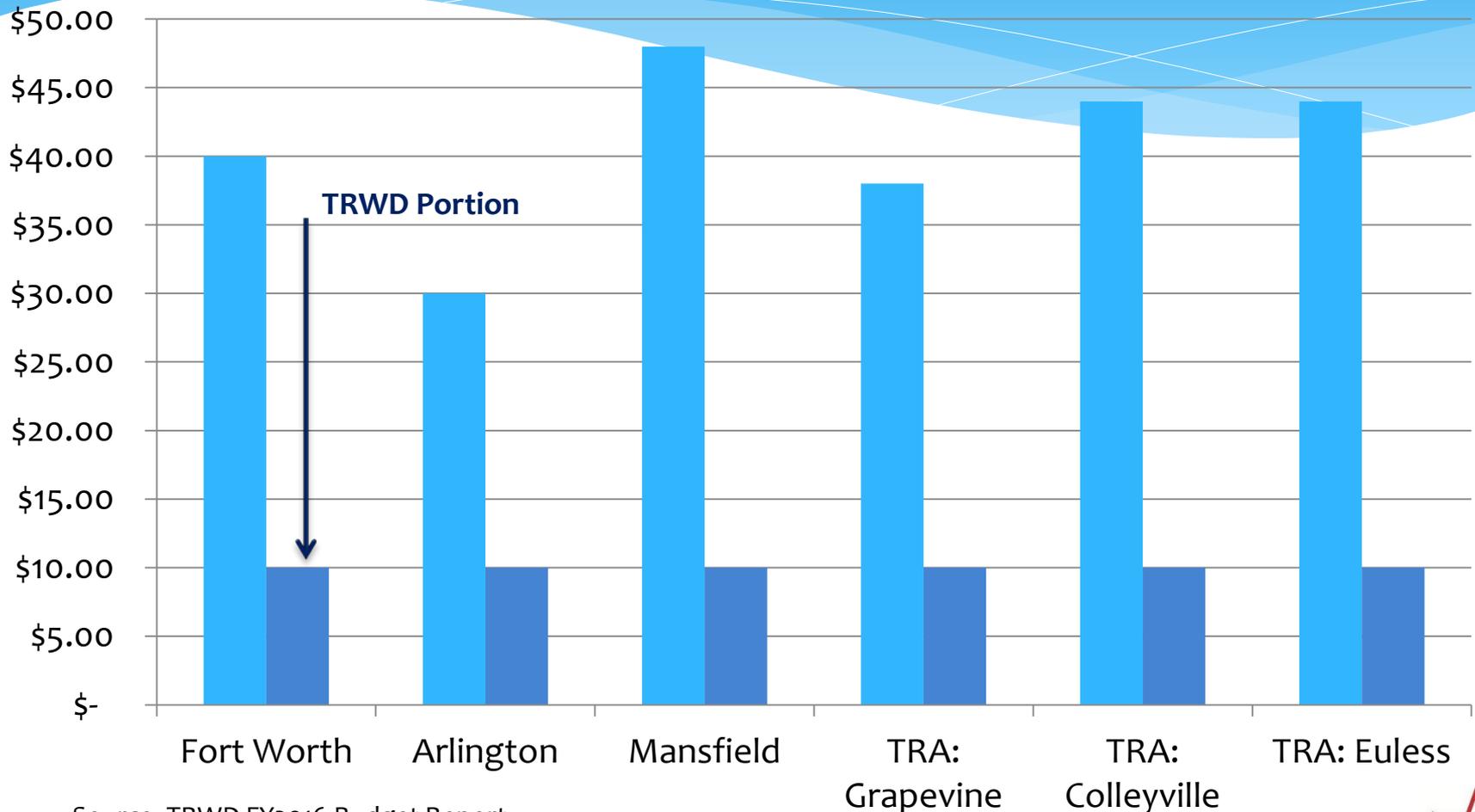
# What Have We Done To Address Concerns/Assist Residents

- \*We have hand calculated 10 randomly selected August 2015 accounts representing multiple usage levels to validate billing system calculations
- \*The City Auditor also does this each year on 25 randomly selected accounts
- \*The rate structure listed has been in place since 2003-inclining block
- \*The rates listed have been used to calculate bills since January 1, 2015
- \*Managing water consumption is becoming a priority
- \*AMI System will provide utility and residents timely data to evaluate consumption
- \*Assist residents with payment terms

# TRWD Rate Increases

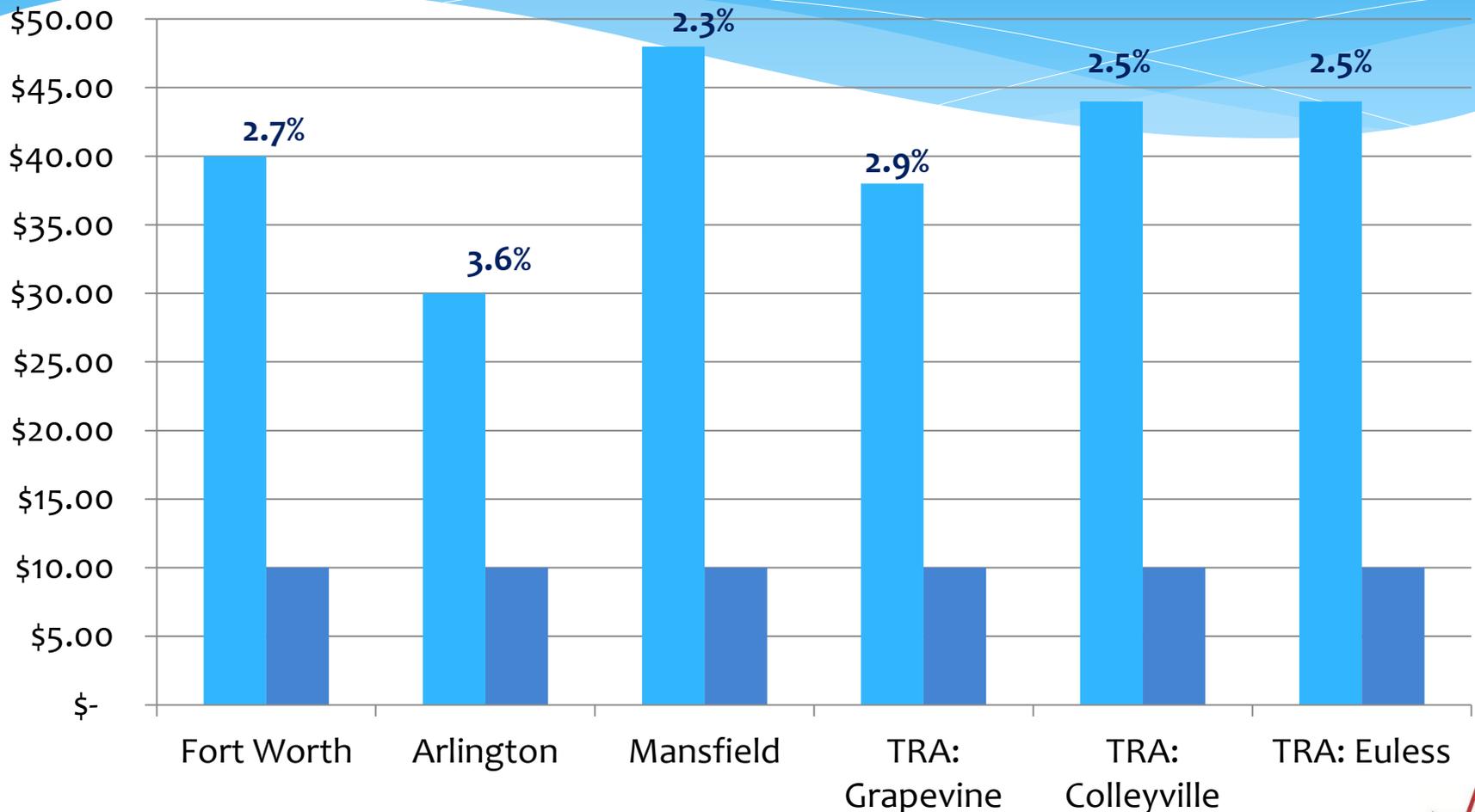


# Price for 10,000 Gallons of Water 2014 Customer Rate/2016 TRWD Rate



Source: TRWD FY2016 Budget Report

# Price for 10,000 Gallons of Water 2014 Customer Rate/2016 TRWD Rate

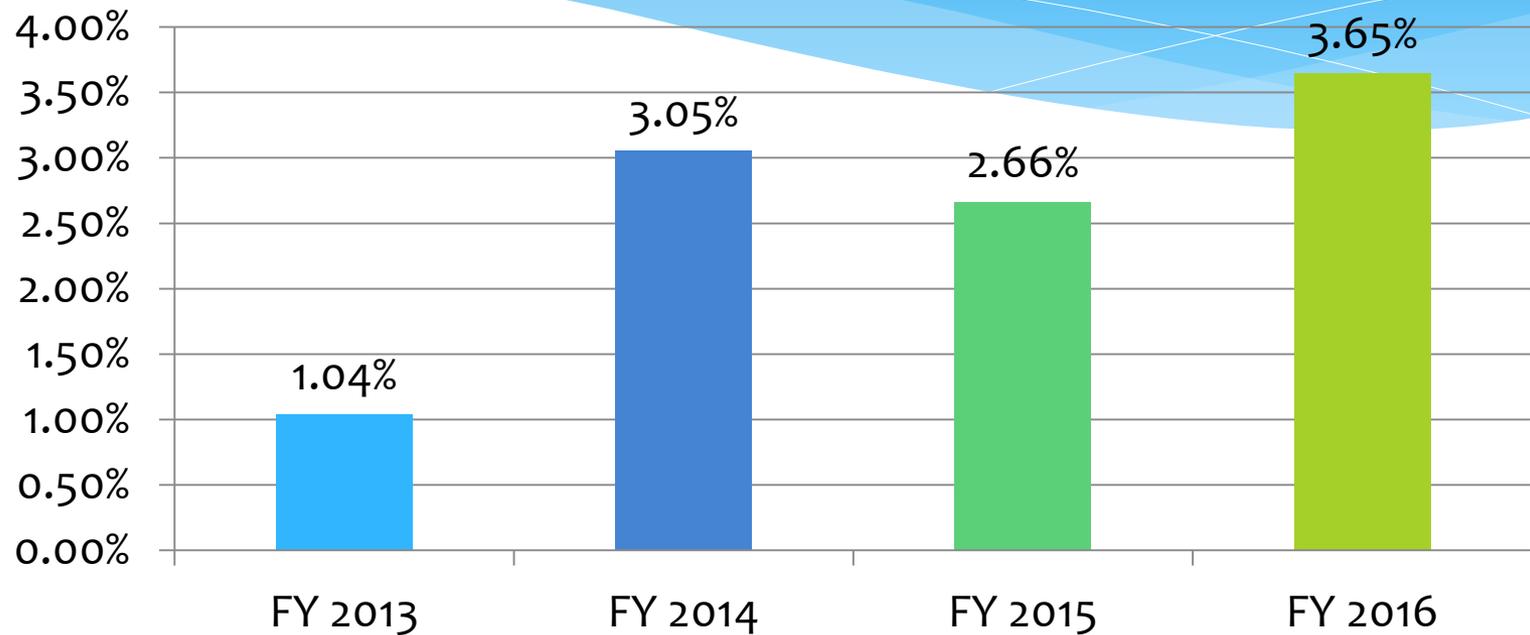


# Reasons for TRWD Rate Increase

- \* Integrated Pipeline (IPL)
- \* Increase in Debt Service
- \* Increase in Building Structure Grounds
- \* Loss of Luminant Revenues due to Bankruptcy
- \* Decrease in Drilling Sales
- \* Decrease in Interest Income

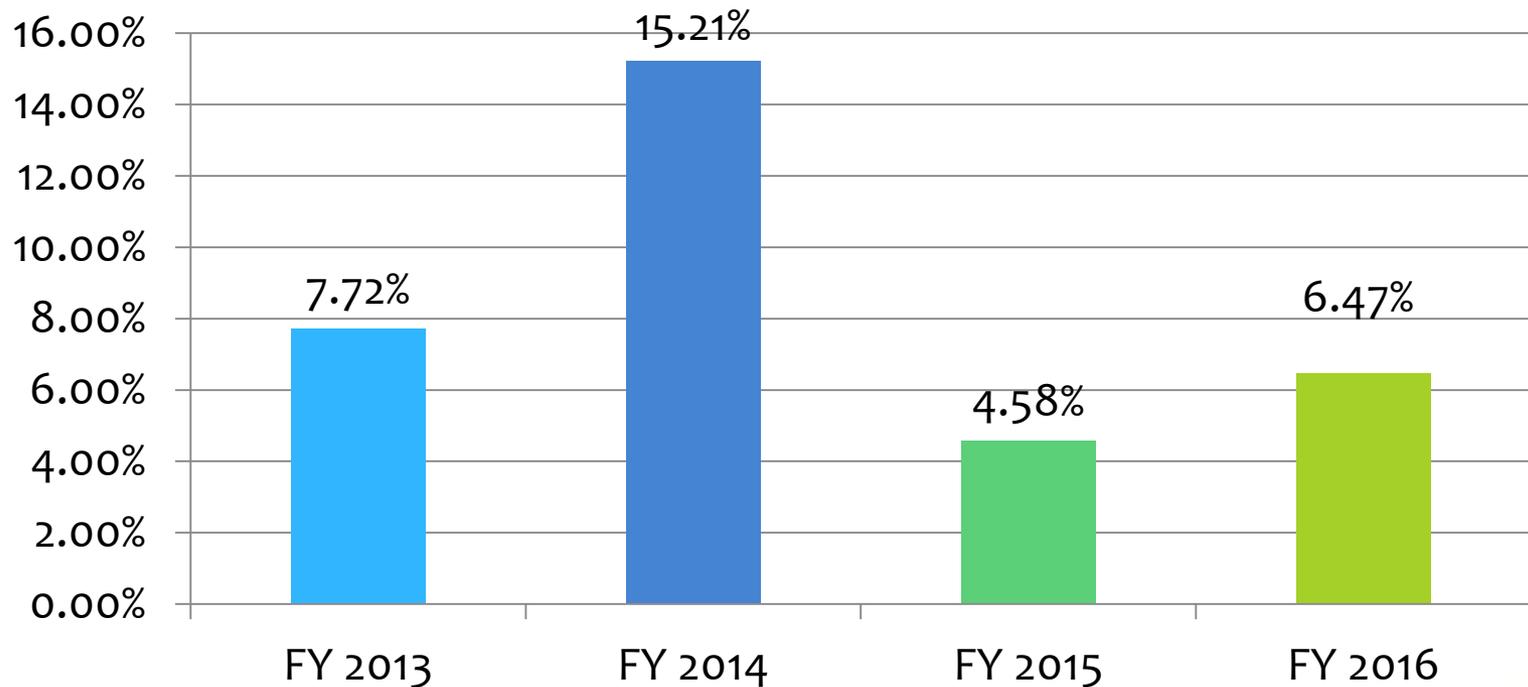
Source: TRWD FY2016 Budget Report

# COA Water Utilities Overall Revenue Increase



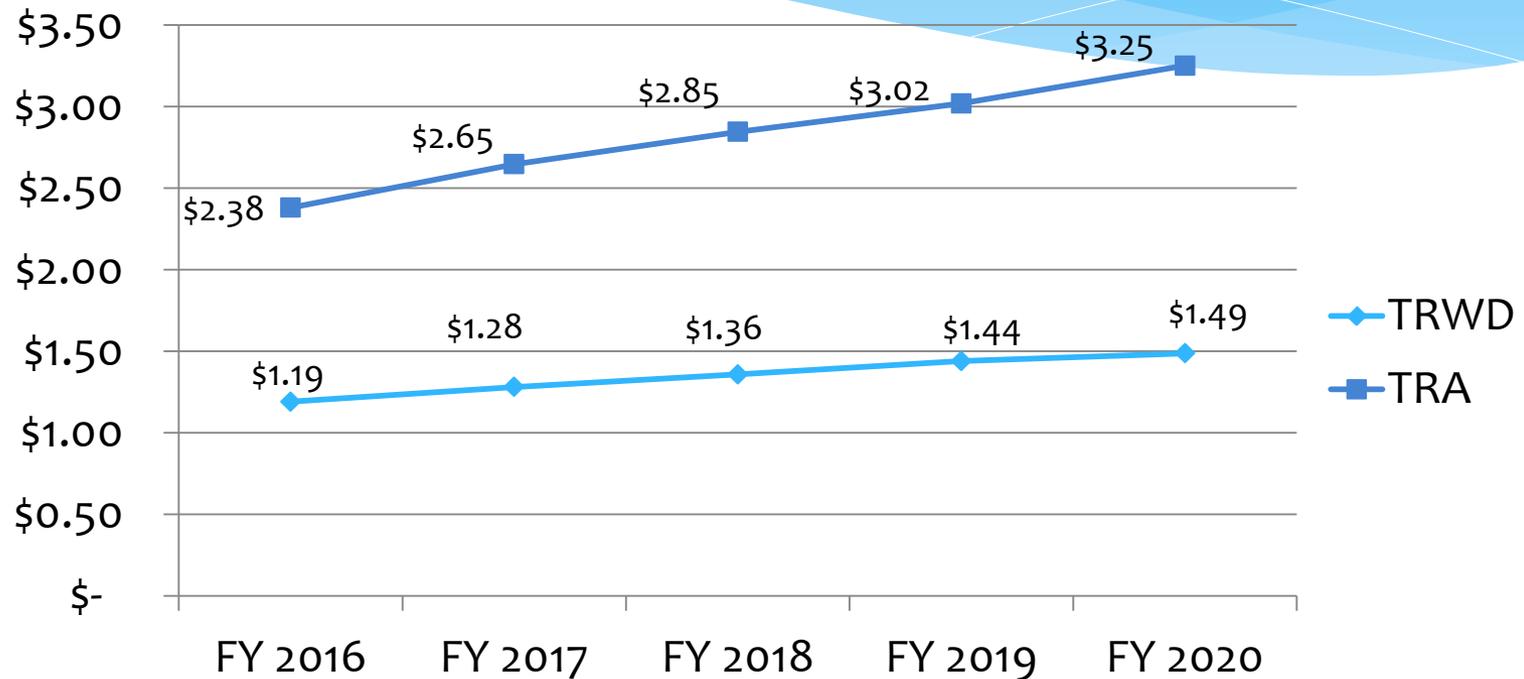
Source: City of Arlington Water Utilities Department

# TRA Rate Increases



Source: TRA FY2016 Budget Report

# TRWD/TRA Proposed Rate Increases

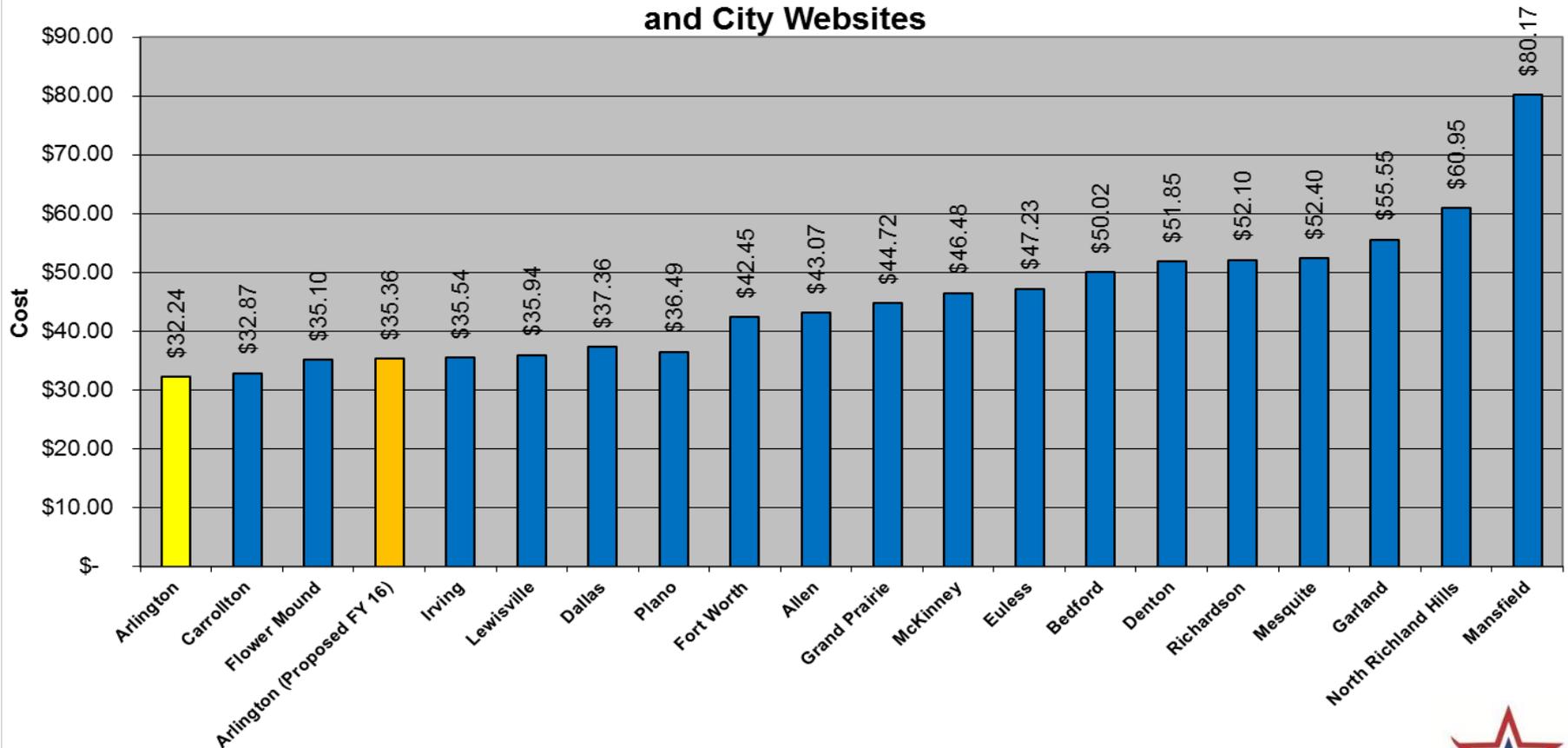


Source: TRWD/TRA FY2016 Budget Report

# Any Questions?

# Residential Water Rates for 10,000 Gallons

Source Data: Texas Town & City, May 2015  
and City Websites



Source: Texas Municipal League



# COA Water Utilities Overall Revenue Increase

