



# **Annual Water and Sewer Retail Rate Survey**

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**The Community Advisory Board to the  
Massachusetts Water Resources Authority**

**2017**



***The MWRA Advisory Board...***

was established by the state Legislature to represent the 60 communities in the MWRA service area. Through annual comments and recommendations on the Authority's proposed capital and current expense budgets and rates, the Advisory Board provides a ratepayer perspective on the MWRA's plans and policies to improve the region's water and sewer systems.

For more information call: **(617) 788-2050**, fax **(617) 788-2059**, write:

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or visit the Advisory Board's website at:  
<http://www.mwraadvisoryboard.com>

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Worcester

# **MWRA Advisory Board**

## **2017**

# **Annual Water and Sewer Retail Rate Survey**

*Joseph E. Favaloro*  
Executive Director



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## Introduction

This is the twenty-ninth “Annual Water and Sewer Retail Rate Survey” prepared by the Massachusetts Water Resources Authority (MWRA) Advisory Board, providing a comparative snapshot of water and sewer retail rates for each community in the MWRA service area. In addition, the survey also incorporates rate information from Massachusetts communities outside of the MWRA service area, as well as other cities nationwide. The survey was prepared by James Guiod, Lenna Ostrodka, and Matthew Romero of the Advisory Board staff.

The Rate Survey is typically the Advisory Board’s most requested document. We hope that municipal officials, water and sewer industry professionals, and concerned citizens continue to find the information presented in the survey useful and informative. As always, we welcome any questions or suggestions regarding this survey, which will allow us to improve the document for future years. Please do not hesitate to call our office at (617) 788-2050, or email us at [mwra.ab@mwraadvisoryboard.com](mailto:mwra.ab@mwraadvisoryboard.com) with your feedback. Copies of this document are available at our website in PDF format at <http://www.mwraadvisoryboard.com>.

## Average Water and Sewer Rates

Historically, the survey has focused upon the average annual household use based on the industry standard of 120 hundred cubic feet (HCF), or approximately 90,000 gallons (90 kgal) to track retail rate increases over time. For historical purposes this constant is maintained throughout the document; however, in recognition of the variability of actual household usage by community, the Advisory Board for several years has provided a comparative assessment of actual costs for water and sewer retail rate customers based upon local, state, and federal data (LSF). The LSF usage number is calculated by MWRA staff and is based primarily on residential consumption reported by each community in their annual Public Water Supply Annual Statistic Report filed with the Massachusetts Department of Environmental Protection, and the total population and average household size for each community based on data from the U.S. Census bureau. The full calculation and source data can be found in Appendix C. Prior to 2009, this information had only been presented in Appendix C of the survey, but now is found on each community’s page.

In July 2008, the Advisory Board staff convened a “focus group,” including members of the Advisory Board, MWRA staff, and Advisory Board staff, to discuss the survey’s method of reporting retail rate increases. After eliciting responses from both the American Water Works Association (AWWA) and its members, the group agreed to maintain a constant standard (120 HCF) for historical comparisons while creating additional references to the information contained in Appendix C. Now, in an effort to provide a more complete depiction of the various means by which retail water and sewer rates can be calculated, the information previously contained in Appendix C has been placed in each MWRA community’s profile page.

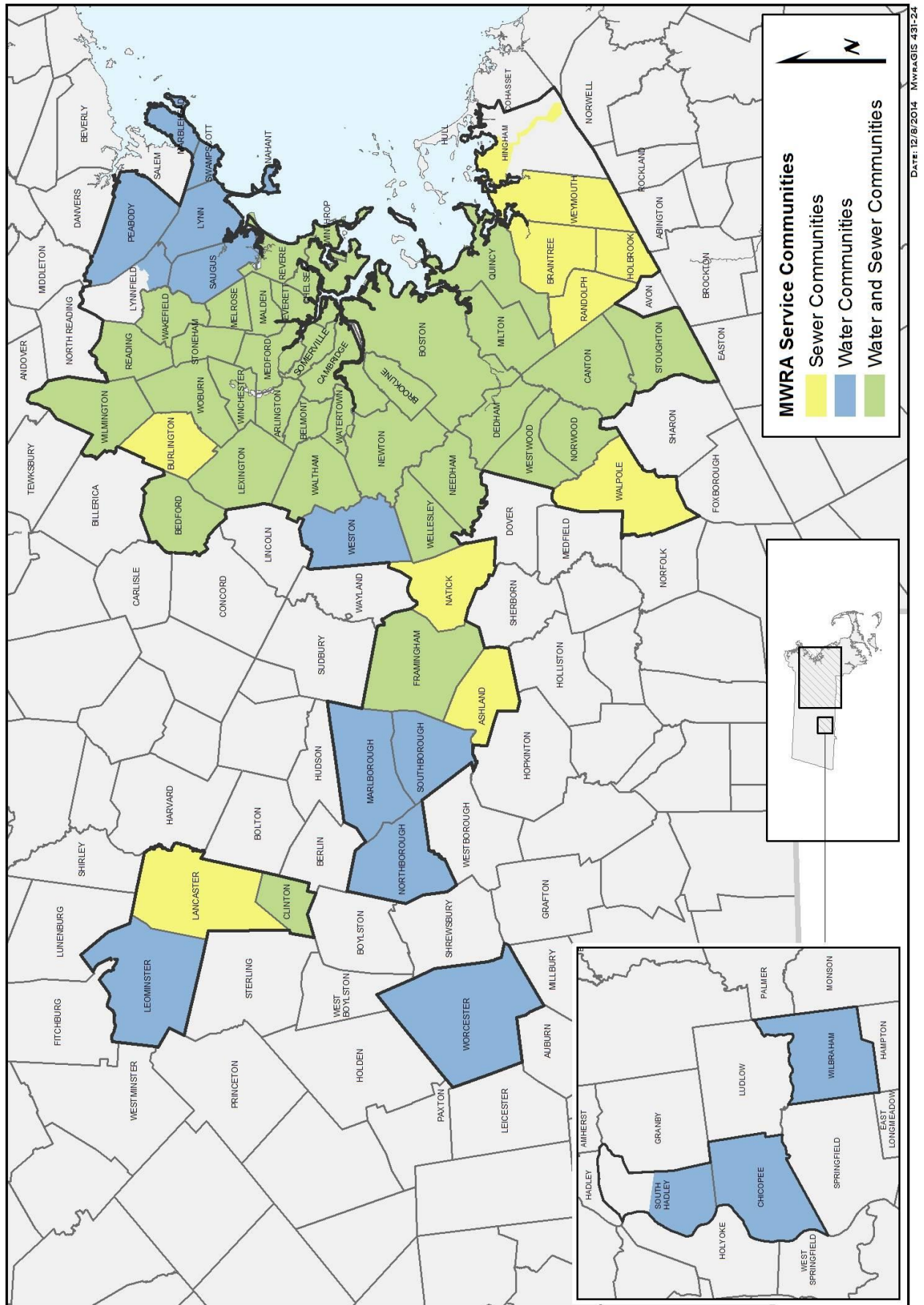
## The MWRA Advisory Board

The MWRA Advisory Board was created by the Massachusetts Legislature in 1984 to represent the interests of Massachusetts Water Resources Authority service area communities. The Advisory Board includes one representative from each of the 60 communities that receive water and/or sewer services from the MWRA and one from the Metropolitan Area Planning Council. In addition, six members are appointed by the Governor to include a person with skills and expertise in matters relating to environmental protection, one representative each from the Connecticut River Basin, the Quabbin/Ware Watershed areas and the Wachusett Watershed area, plus two persons qualified by membership or affiliation in organizations concerned with the recreational or commercial uses of the Boston Harbor.

The Massachusetts Legislature has delegated specific responsibilities to the Advisory Board who, in turn, monitor the MWRA’s programs from a ratepayer perspective:

- Serving as a watchdog over the MWRA to ensure proper management and budgetary control;
- Making recommendations on annual expense budgets, capital improvement programs, business planning, and user charges;
- Holding hearings on matters relating to the MWRA and making subsequent recommendations to the Governor and the Legislature; and,
- Appointing three individuals to the eleven member MWRA Board of Directors.

# MWRA COMMUNITY 2017 WATER AND SEWER CHARGES

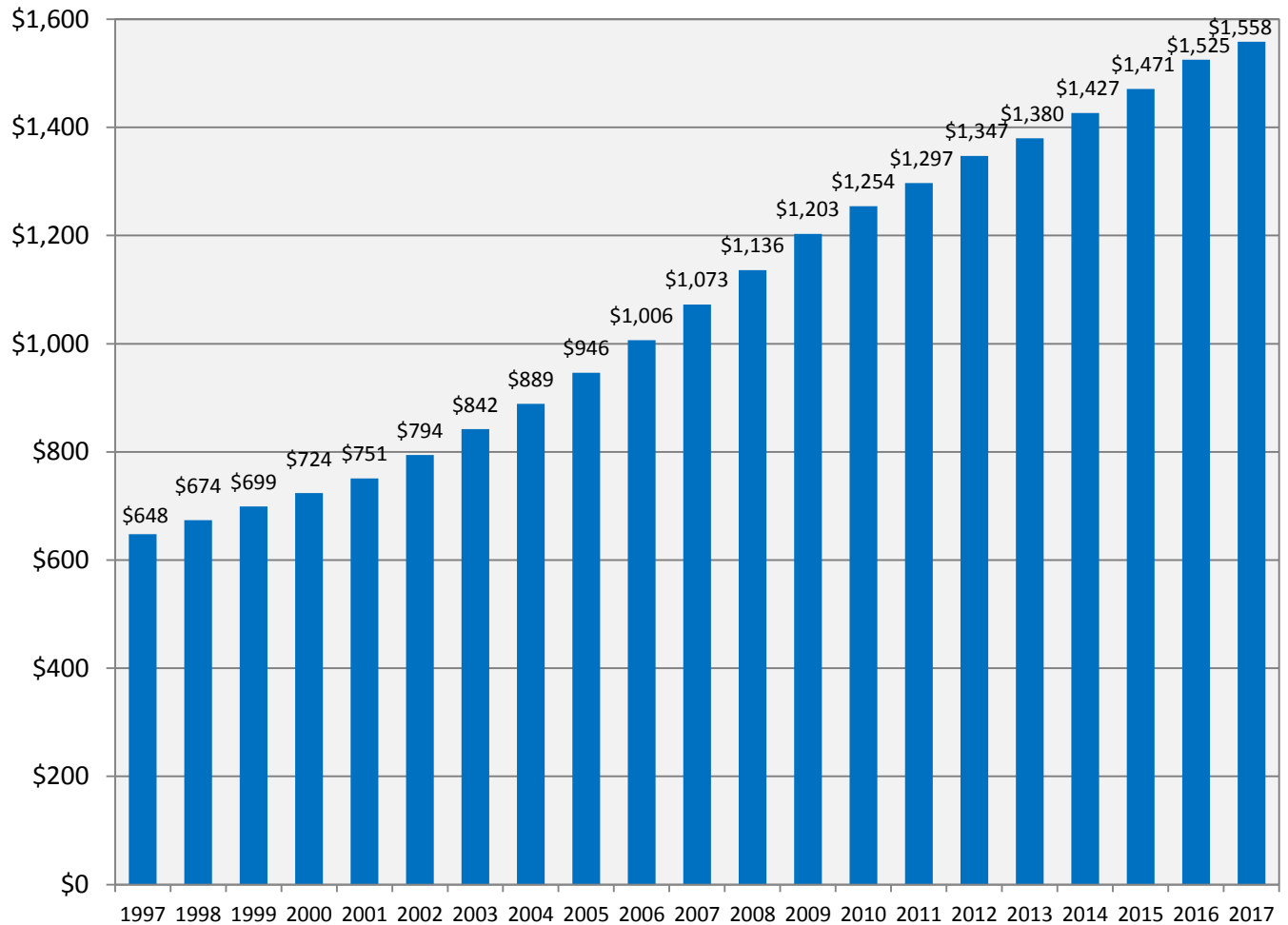


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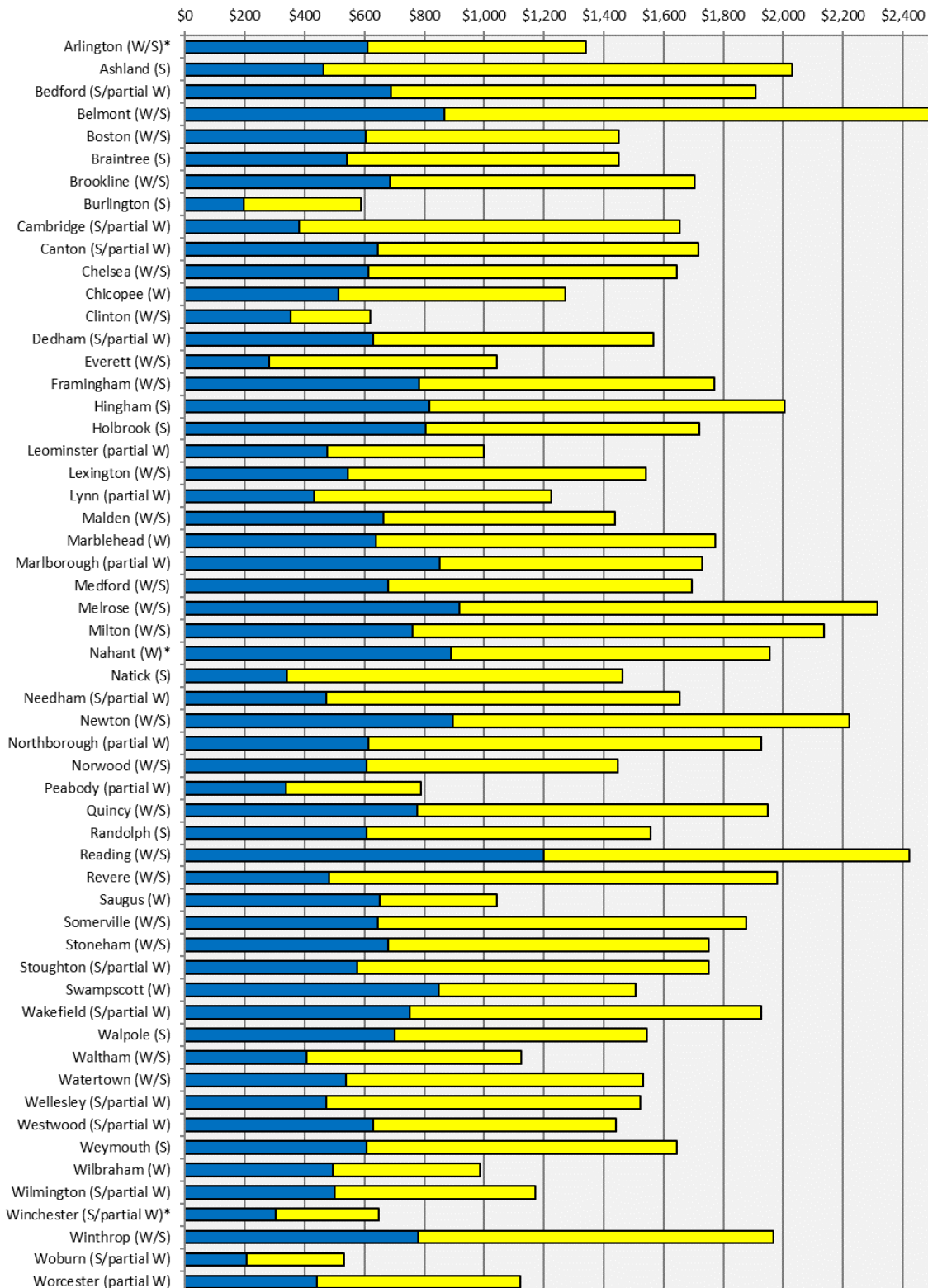
# Combined Annual Water & Sewer Charges in MWRA Communities

## 1996 – 2017

(Consumption at 120 HCF ≈ 90 kgal)



# 2017 Combined Retail Water & Sewer Community Charge Comparisons (Consumption at 120 HCF ≈ 90 kgal)



(\*) Indicates community that utilizes the debt service exclusion as permitted under General Law 59 Section 21 C(n)

<b>MWRA SYSTEMWIDE SUMMARY DATA</b>		
<b>2017</b>		
	<b>2016</b>	<b>2017</b>
<b>Avg. combined water and sewer cost</b>	\$1,524.89	\$1,558.47
<b>Percent change from prior year</b>	3.7%	2.2%
<b><u>WATER BILLING FREQUENCY</u></b>		
<b>Semi-Annual</b>	8	8
<b>Tri-Annual</b>	2	2
<b>Quarterly</b>	42	42
<b>Bi-Monthly</b>	2	2
<b>Monthly</b>	6	6
<b><u>WATER RATE STRUCTURE</u></b>		
<b>Ascending Block with Base/Minimum Charge</b>	34	34
<b>Ascending Block only</b>	12	12
<b>Flat Rate with Base/Minimum Charge</b>	7	7
<b>Flat Rate only</b>	6	6
<b>Fixed Fee</b>	1	1
<b><u>SENIOR CITIZEN/LOW-INCOME DISCOUNTS</u></b>		
<b>Senior Discount</b>	17	17
<b>Low-Income Discount</b>	7	7
<b>Both</b>	7	7
<b>Neither</b>	29	29
<b><u>DEBT SERVICE EXCLUSION</u></b>	3	3
<b><u>CHANGES IN COMBINED WATER AND SEWER CHARGES</u></b>		
<b>Decrease</b>	2	3
<b>No change</b>	16	16
<b>0% to 10% increase</b>	37	38
<b>10% to 20% increase</b>	5	3
<b>20% to 30% increase</b>	0	0
<b>30% to 40% increase</b>	0	0
<b>40% to 50% increase</b>	0	0
<b>Greater than 50% increase</b>	0	0

ANNUAL WATER AND SEWER CHARGES IN COMMUNITIES RECEIVING SERVICES FROM THE MWRA 2017		
	Water	Sewer
Arlington (W/S)*	\$611.20	\$730.04
Ashland (S)	-	1566.80
Bedford (S/partial W)	687.00	1221.00
Belmont (W/S)	866.00	1622.20
Boston (W/S)	604.01	844.67
Braintree (S)	-	908.80
Brookline (W/S)	683.80	1019.60
Burlington (S)	-	391.50
Cambridge (S/partial W)	380.00	1274.80
Canton (S/partial W)	643.40	1073.00
Chelsea (W/S)	613.20	1032.00
Chicopee (W)	514.00	-
Clinton (W/S)	354.00	265.50
Dedham (S/partial W)	629.28	937.28
Everett (W/S)	279.60	762.00
Framingham (W/S)	782.52	987.00
Hingham (S)	-	1188.00
Holbrook (S)	-	915.60
Leominster (partial W)	476.36	-
Lexington (W/S)	544.40	996.80
Lynn (partial W)	432.12	-
Lynnfield (W)	377.40	-
Malden (W/S)	662.40	774.72
Marblehead (W)	639.00	-
Marlborough (partial W)	852.00	-
Medford (W/S)	680.16	1014.72
Melrose (W/S)	918.40	1396.52
Milton (W/S)	761.04	1375.44
Nahant (W)*	890.40	-
Natick (S)	-	1122.40
Needham (S/partial W)	471.60	1182.24
Newton (W/S)	894.80	1327.00
Northborough (partial W)	614.48	-
Norwood (W/S)	607.68	838.80
Peabody (partial W)	337.20	-
Quincy (W/S)	776.40	1171.80
Randolph (S)	-	950.40
Reading (W/S)	1200.00	1220.40
Revere (W/S)	481.20	1498.80
Saugus (W)	651.14	-
Somerville (W/S)	645.03	1232.16
South Hadley (W)	530.40	-
Southborough (W)	437.08	-
Stoneham (W/S)	678.00	1074.00
Stoughton (S/partial W)	576.80	1174.80
Swampscott (W)	848.00	-
Wakefield (S/partial W)	750.60	1177.20
Walpole (S)	-	841.06
Waltham (W/S)	407.28	715.32
Watertown (W/S)	537.60	993.60
Wellesley (S/partial W)	471.96	1051.20
Weston (W)	267.20	-
Westwood (S/partial W)	629.28	813.00
Weymouth (S)	-	1036.92
Wilbraham (W)	494.40	-
Wilmington (S/partial W)	500.40	672.00
Winchester (S/partial W)*	302.60	345.60
Winthrop (W/S)	780.00	1188.00
Woburn (S/partial W)	205.00	328.00
Worcester (partial W)	440.40	-
<b>AVERAGE</b>	<b>\$596.44</b>	<b>\$1005.74</b>
<b>Percent change</b>	<b>19%</b>	<b>2.19%</b>
Water and Sewer Charges are based on an annual water consumption of 120 HCF ≈ 90 kgal.		
(*) Indicates communities that utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).		



## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA 2017

Charges include MWRA, community, and alternatively supplied services.

Rates based on average annual household use of **120 hundred cubic feet (HCF)**, or approximately **90,000 gallons**.

	Water	Sewer	Combined	Change
Arlington (W/S)*	\$611.20	\$730.04	\$1,341.24	0.0%
Ashland (S)	\$462.00	\$1,566.80	\$2,028.80	4.1%
Bedford (S/partial W)	\$687.00	\$1,221.00	\$1,908.00	1.7%
Belmont (W/S)	\$866.00	\$1,622.20	\$2,488.20	2.1%
Boston (W/S)	\$604.01	\$844.67	\$1,448.68	2.5%
Braintree (S)	\$541.40	\$908.80	\$1,450.20	8.3%
Brookline (W/S)	\$683.80	\$1,019.60	\$1,703.40	0.0%
Burlington (S)	\$196.50	\$391.50	\$588.00	0.0%
Cambridge (S/partial W)	\$380.00	\$1,274.80	\$1,654.80	5.8%
Canton (S/partial W)	\$643.40	\$1,073.00	\$1,716.40	5.7%
Chelsea (W/S)	\$613.20	\$1,032.00	\$1,645.20	5.8%
Chicopee (W)	\$514.00	\$758.32	\$1,272.32	3.7%
Clinton (W/S)	\$354.00	\$265.50	\$619.50	3.0%
Dedham (S/partial W)	\$629.28	\$937.28	\$1,566.56	0.1%
Everett (W/S)	\$279.60	\$762.00	\$1,041.60	2.0%
Framingham (W/S)	\$782.52	\$987.00	\$1,769.52	2.0%
Hingham (S)	\$816.68	\$1,188.00	\$2,004.68	3.1%
Holbrook (S)	\$804.00	\$915.60	\$1,719.60	3.8%
Leominster (partial W)	\$476.36	\$521.72	\$998.08	3.5%
Lexington (W/S)	\$544.40	\$996.80	\$1,541.20	1.4%
Lynn (partial W)	\$432.12	\$793.44	\$1,225.56	2.0%
Malden (W/S)	\$662.40	\$774.72	\$1,437.12	0.5%
Marblehead (W)	\$639.00	\$1,134.00	\$1,773.00	0.7%
Marlborough (partial W)	\$852.00	\$878.40	\$1,730.40	0.0%
Medford (W/S)	\$680.16	\$1,014.72	\$1,694.88	-4.4%
Melrose (W/S)	\$918.40	\$1,396.52	\$2,314.92	0.9%
Milton (W/S)	\$761.04	\$1,375.44	\$2,136.48	0.0%
Nahant (W)*	\$890.40	\$1,065.60	\$1,956.00	2.9%
Natick (S)	\$340.00	\$1,122.40	\$1,462.40	2.1%
Needham (S/partial W)	\$471.60	\$1,182.24	\$1,653.84	1.5%
Newton (W/S)	\$894.80	\$1,327.00	\$2,221.80	3.7%
Northborough (partial W)	\$614.48	\$1,312.64	\$1,927.12	14.6%
Norwood (W/S)	\$607.68	\$838.80	\$1,446.48	0.0%
Peabody (partial W)	\$337.20	\$451.80	\$789.00	10.2%
Quincy (W/S)	\$776.40	\$1,171.80	\$1,948.20	2.3%
Randolph (S)	\$607.80	\$950.40	\$1,558.20	0.0%
Reading (W/S)	\$1,200.00	\$1,220.40	\$2,420.40	3.3%
Revere (W/S)	\$481.20	\$1,498.80	\$1,980.00	2.1%
Saugus (W)	\$651.14	\$390.20	\$1,041.34	2.5%
Somerville (W/S)	\$645.03	\$1,232.16	\$1,877.19	2.9%
Stoneham (W/S)	\$678.00	\$1,074.00	\$1,752.00	-1.4%
Stoughton (S/partial W)	\$576.80	\$1,174.80	\$1,751.60	2.7%
Swampscott (W)	\$848.00	\$659.00	\$1,507.00	0.0%
Wakefield (S/partial W)	\$750.60	\$1,177.20	\$1,927.80	6.9%
Walpole (S)	\$702.36	\$841.06	\$1,543.42	2.8%
Waltham (W/S)	\$407.28	\$715.32	\$1,122.60	-5.0%
Watertown (W/S)	\$537.60	\$993.60	\$1,531.20	0.0%
Wellesley (S/partial W)	\$471.96	\$1,051.20	\$1,523.16	0.0%
Westwood (S/partial W)	\$629.28	\$813.00	\$1,442.28	0.1%
Weymouth (S)	\$607.80	\$1,036.92	\$1,644.72	0.1%
Wilbraham (W)	\$494.40	\$492.00	\$986.40	0.0%
Wilmington (S/partial W)	\$500.40	\$672.00	\$1,172.40	6.3%
Winchester (S/partial W)*	\$302.60	\$345.60	\$648.20	2.1%
Winthrop (W/S)	\$780.00	\$1,188.00	\$1,968.00	0.0%
Woburn (S/partial W)	\$205.00	\$328.00	\$533.00	0.0%
Worcester (partial W)	\$440.40	\$679.68	\$1,120.08	4.9%
<b>AVERAGE</b>	\$605.08	\$953.38	\$1,558.47	2.20%

The following communities do not provide municipal sewer services and, therefore, are not listed: Lynnfield Water District, South Hadley Fire District #1, Southborough and Weston.

(\*) Indicates communities that utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).

# Arlington (W/S)

## Residential Water Rates:

Last adjusted: January 2014  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge per bill \$ 5.35  
 First 15 HCF/bill \$ 4.75/HCF  
 16 – 30 HCF \$ 5.08 "  
 >30 HCF \$ 6.16 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: January 2014  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge per bill \$ 5.36  
 First 15 HCF/bill \$ 5.71/HCF  
 16 – 30 HCF \$ 6.10 "  
 >30 HCF \$ 7.40 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$611.20	0.00%
Sewer	\$730.04	0.00%
<b>Combined</b>	<b>\$1,341.24</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(62.8 HCF – See Appendix C  
for Data & Calc.)

Water	\$320.62
Sewer	\$381.12
<b>Combined</b>	<b>\$701.74</b>

Arlington utilizes the debt service exclusion as permitted under General Law 59 Section 21C(n)

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$5-10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5-10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

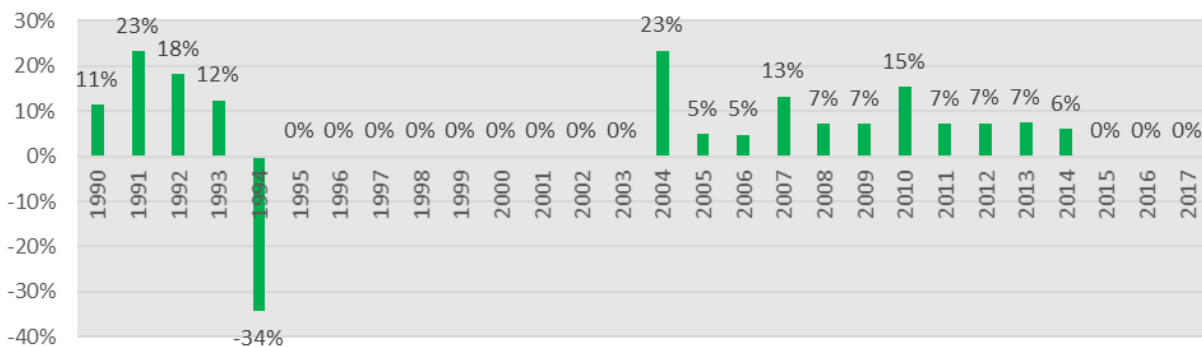


# Arlington (W/S)

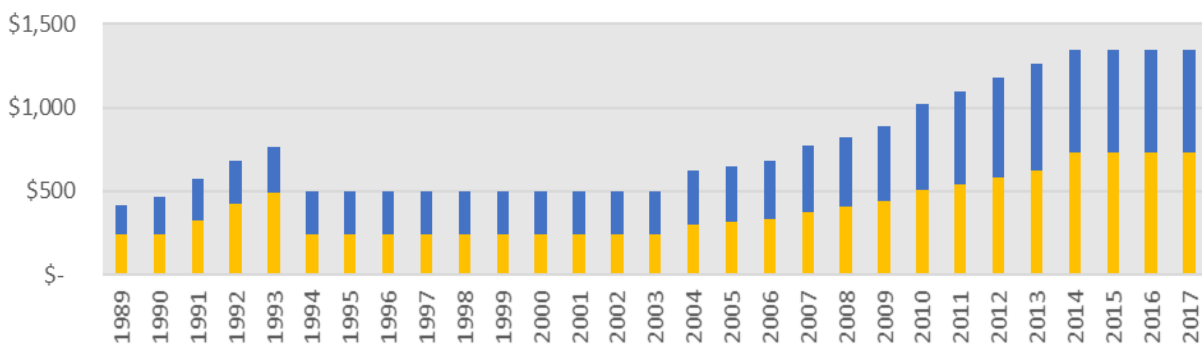
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$4,976,564	\$5,218,727	4.90%
<b>Sewer</b>	\$7,993,120	\$8,338,483	4.30%
<b>Combined</b>	\$12,969,684	\$13,557,210	4.50%



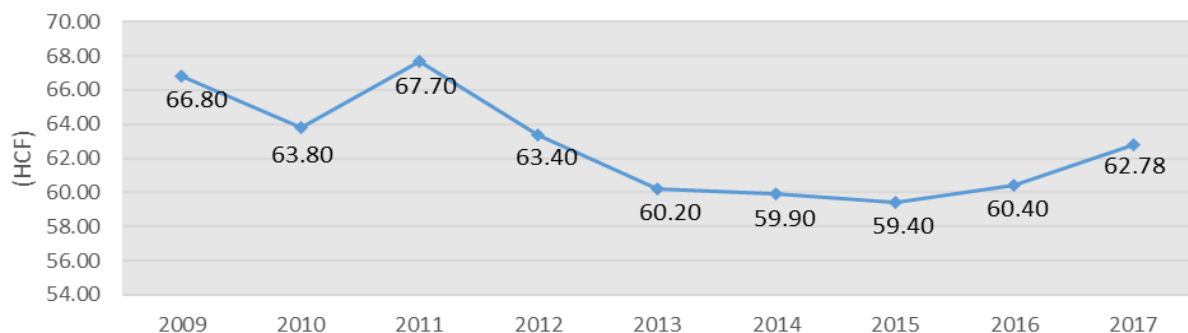
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Ashland (S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge per bill \$ 16.00  
 0 – 10 HCF \$ 3.03/HCF  
 >10 - 40 HCF \$ 3.46 "  
 >40 - 90 HCF \$ 5.14 "  
 >90 HCF \$ 6.37 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge per bill \$ 16.00  
 0 – 10 HCF \$ 11.85/HCF  
 >10 - 40 HCF \$ 12.86 "  
 >40 - 90 HCF \$ 14.31 "  
 >90 HCF \$ 17.78 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$462.00	2.03%
Sewer	\$1,566.80	4.76%
<b>Combined</b>	<b>\$2,028.80</b>	<b>4.13%</b>

## Annual Cost Based on Local, State & Federal Data

(69.7 HCF – See Appendix C  
for Data & Calc.)

Water	\$287.62
Sewer	\$918.66
<b>Combined</b>	<b>\$1,206.27</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

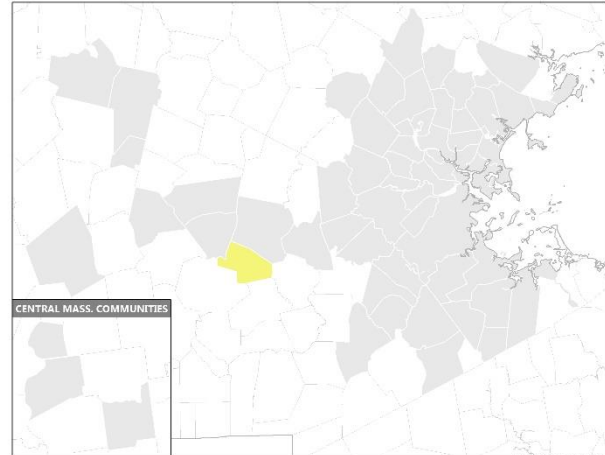
Same as residential

## Additional 2017 Data by Community

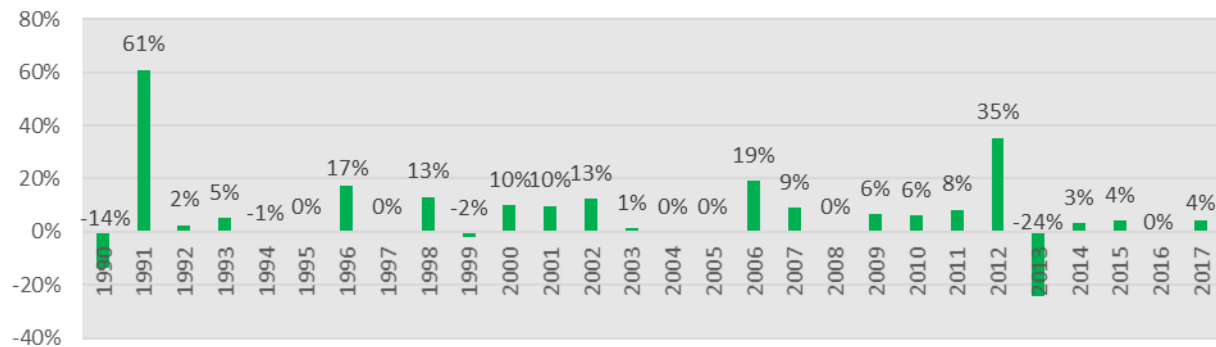
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Both
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	0-25%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$5-10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5-10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Ashland (S)

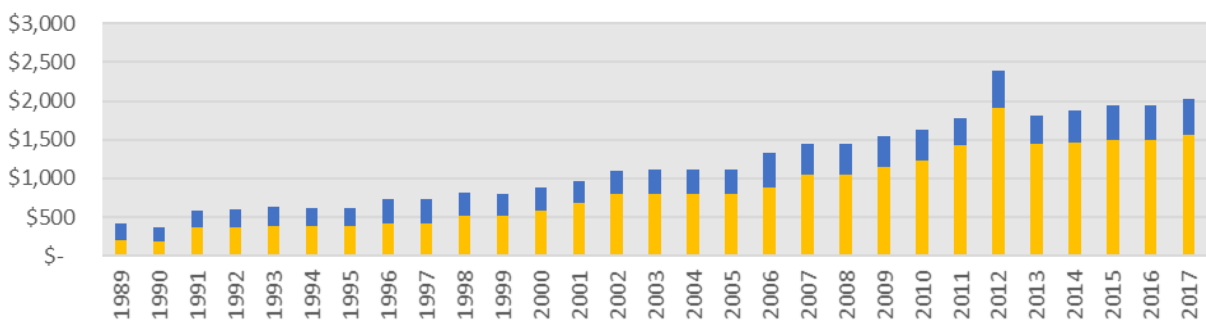
FY 2018 MWRA Assessments			
	FY17	FY18	% Change
Water	N/A	N/A	N/A
Sewer	\$2,485,174	\$2,592,423	4.30%
Combined	\$2,485,174	\$2,592,423	4.30%



### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Bedford (S/partial W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: General

Base charge per bill \$17.50  
 0 – 20 HCF \$ 1.50/HCF  
 >20 HCF \$ 7.40 "

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: General

Base charge per bill \$22.50  
 0 – 20 HCF \$ 3.60/HCF  
 >20 HCF \$ 12.90 "

Based on 100% of water usage.

Billing Frequency: Semi-Annually

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$687.00	2.38%
Sewer	\$1,221.00	1.33%
<b>Combined</b>	<b>\$1,908.00</b>	<b>1.71%</b>

## Annual Cost Based on Local, State & Federal Data

(75.7 HCF – See Appendix C  
for Data & Calc.)

Water	\$359.92
Sewer	\$650.82
<b>Combined</b>	<b>\$1,010.74</b>

## Commercial Water Rates:

Base charge per bill \$35.00/year  
 0 – 3.33 HCF \$ 1.50/HCF  
 >3.33 HCF \$ 7.40/HCF

## Commercial Sewer Rates:

Base charge per bill \$45.00/year  
 0 – 3.33 HCF \$ 3.60/HCF  
 >3.33 HCF \$12.90/HCF

## Additional 2017 Data by Community

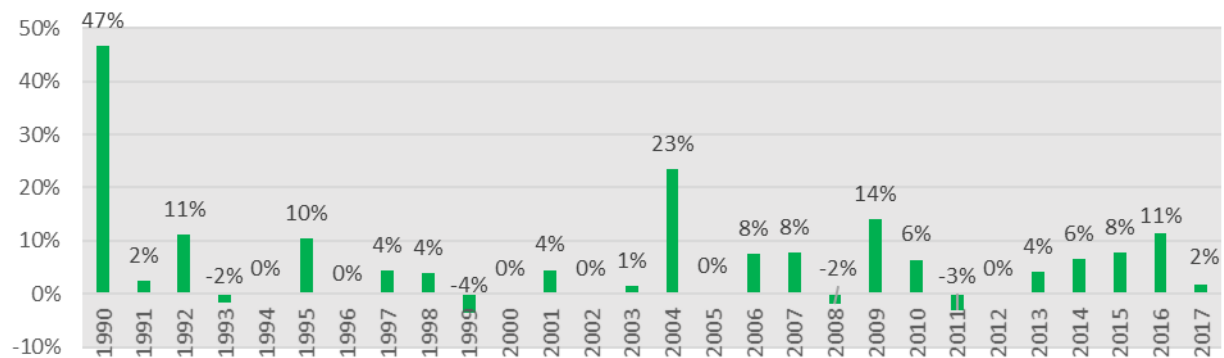
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	1-3 miles
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$1-5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Bedford (S/partial W)

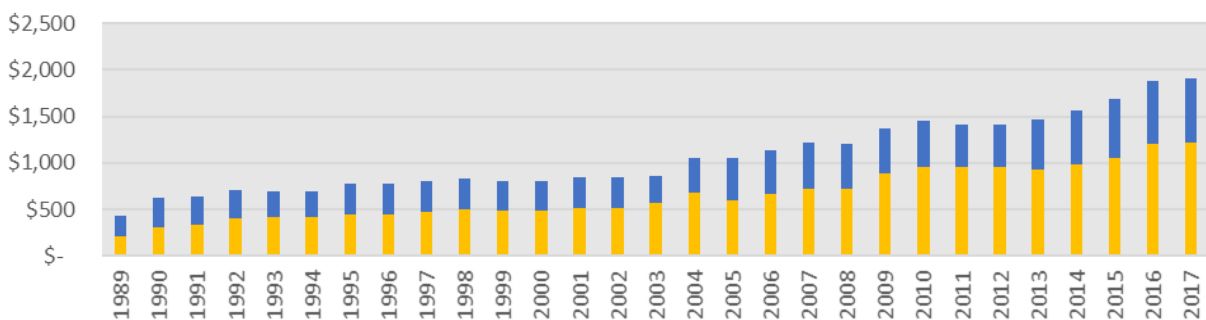
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$3,368,331	\$3,546,882	5.30%
<b>Combined</b>	\$3,368,331	\$3,546,882	5.30%



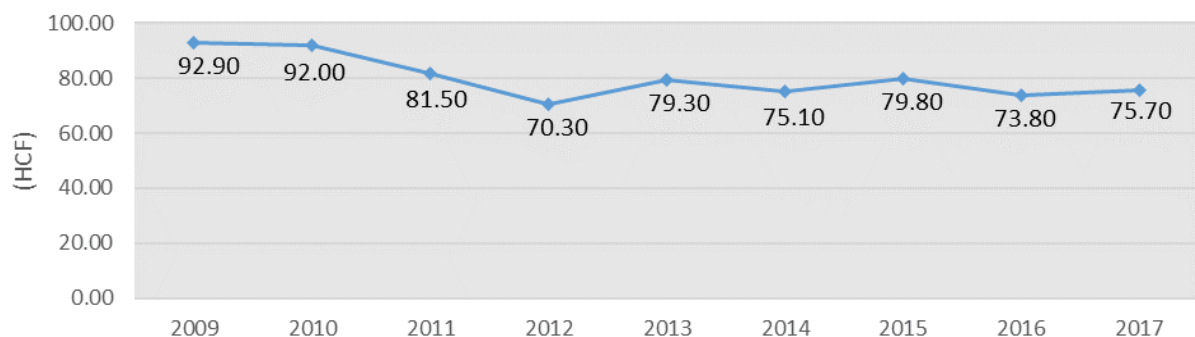
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Belmont (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge per bill \$20.60  
 0 – 30 HCF \$ 6.53/HCF  
 >30 HCF \$ 7.49 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge per bill \$18.25  
 All units \$ 12.91/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$866.00	2.67%
Sewer	\$1,622.20	1.82%
<b>Combined</b>	<b>\$2,488.20</b>	<b>2.11%</b>

### Annual Cost Based on Local, State & Federal Data

(94.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$701.44
Sewer	\$1,296.87
<b>Combined</b>	<b>\$1,998.31</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

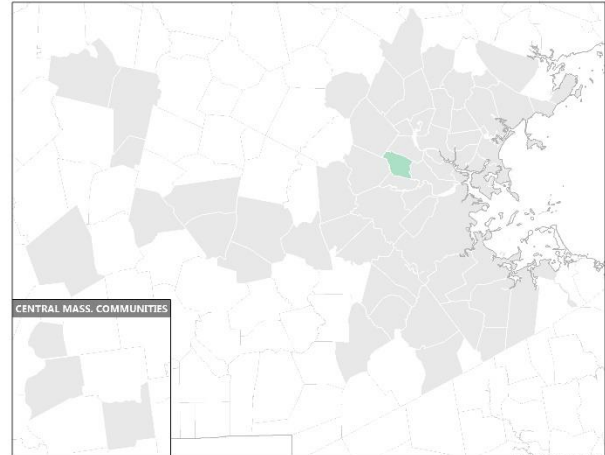
Same as residential

### Additional 2017 Data by Community

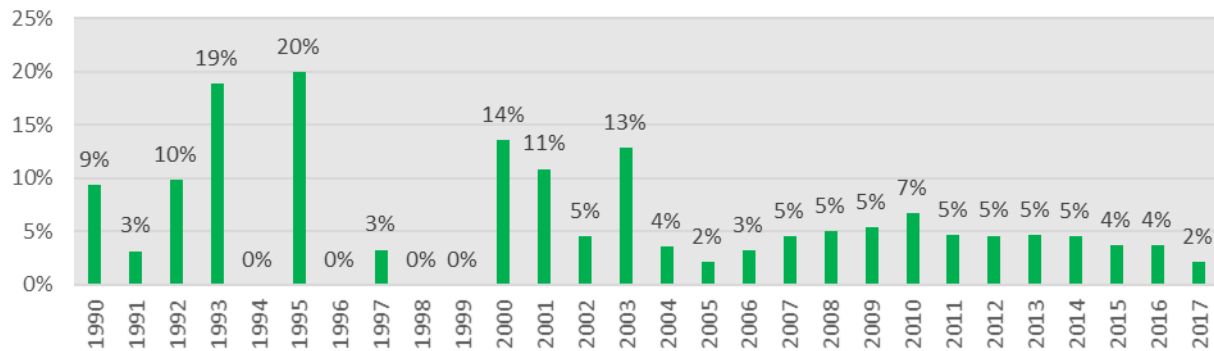
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Both	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$5-10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Belmont (W/S)

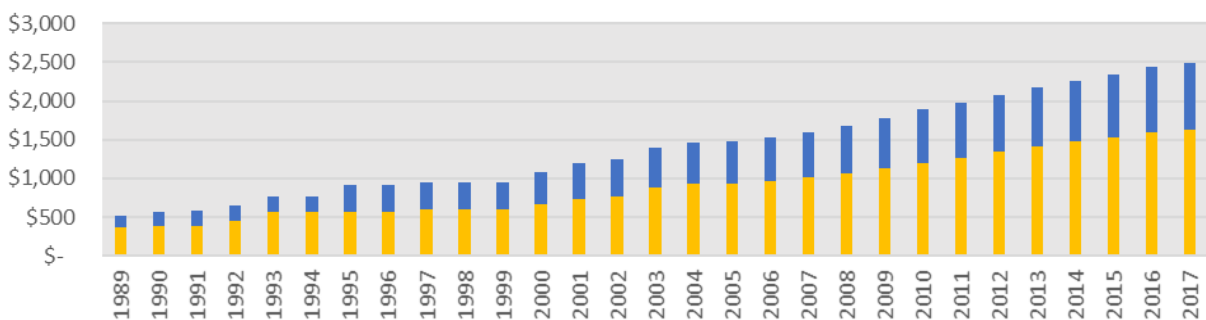
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$2,828,456	\$2,906,748	2.80%
<b>Sewer</b>	\$4,825,479	\$4,923,065	2.00%
<b>Combined</b>	\$7,653,935	\$7,829,813	2.30%



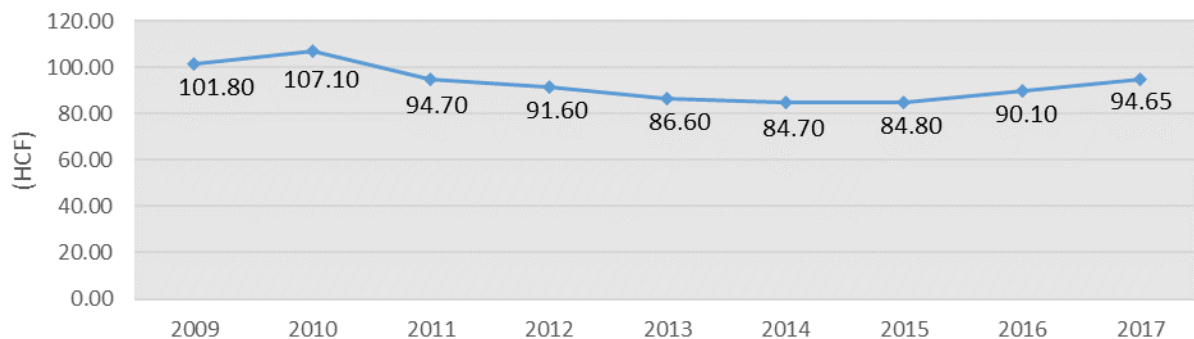
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Boston – Boston Water and Sewer Commission (W/S)

**Residential Water Rates:**

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

First 19 CF/Day	\$4.936/HCF
Next 20 CF	\$5.167 "
Next 50 CF	\$5.381 "
Next 260 CF	\$5.271 "
Next 950 CF	\$5.969 "
Over 1,299 CF	\$9.409 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

First 19 CF/Day	\$6.953/HCF
Next 20 CF	\$7.157 "
Next 50 CF	\$7.302 "
Next 260 CF	\$7.703 "
Next 950 CF	\$8.129 "
Over 1,299 CF	\$8.409 "

Based on 100% of water usage.

Billing Frequency: Monthly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$604.01	0.74%
Sewer	\$844.67	3.75%
<b>Combined</b>	<b>\$1,448.68</b>	<b>2.47%</b>

### Annual Cost Based on Local, State & Federal Data

(46 HCF – See Appendix C  
for Data & Calc.)

Water	\$230.51
Sewer	\$324.71
<b>Combined</b>	<b>\$555.22</b>

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

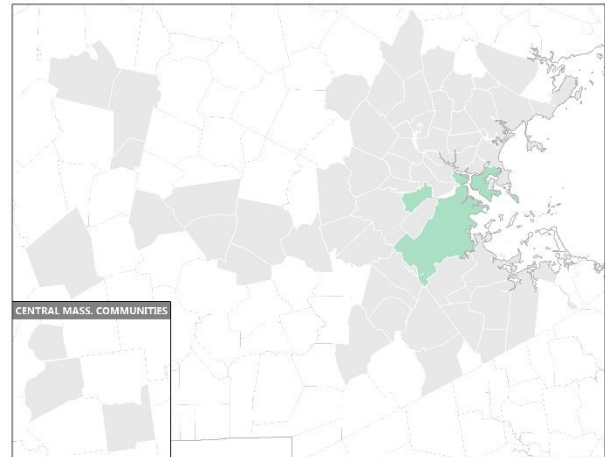
### Additional 2017 Data by Community

Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	Over 6 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	3-6 miles
Water Capital Needs over Next Five Years	Over \$50 million	Sewer Capital Needs over Next Five Years	Over \$50 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

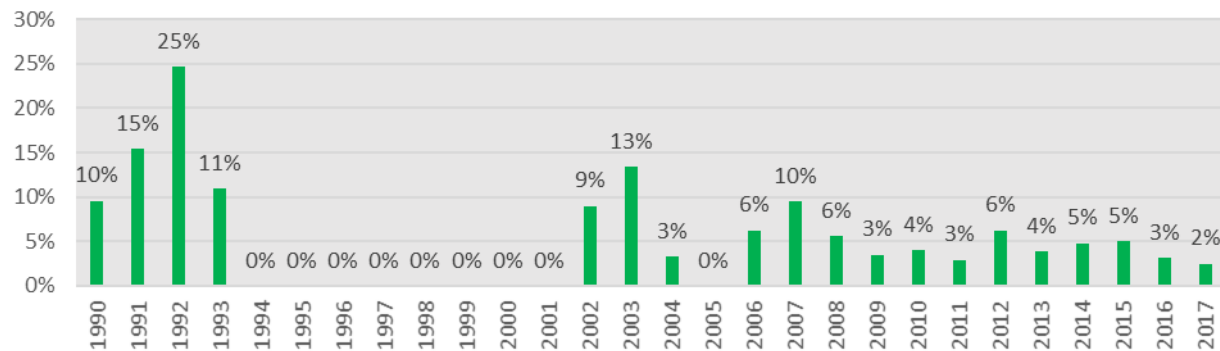


# Boston – Boston Water and Sewer Commission (W/S)

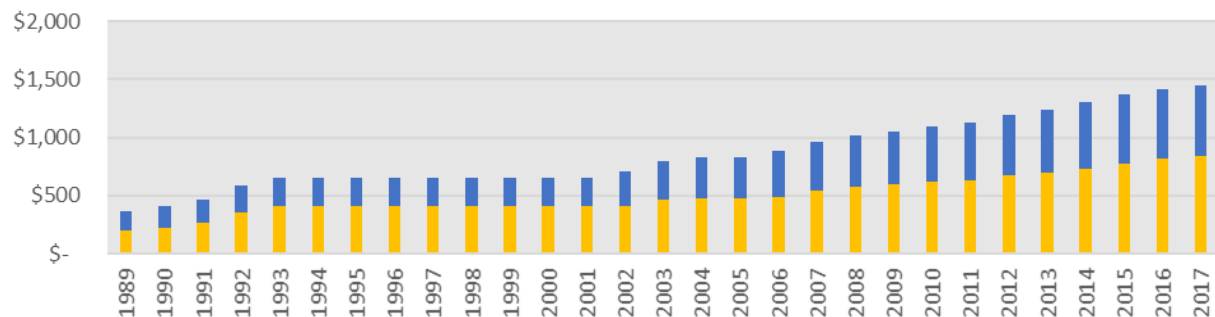
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$82,771,709	\$85,905,357	3.80%
<b>Sewer</b>	\$132,271,845	\$135,974,820	2.80%
<b>Combined</b>	\$215,043,554	\$221,880,177	3.20%



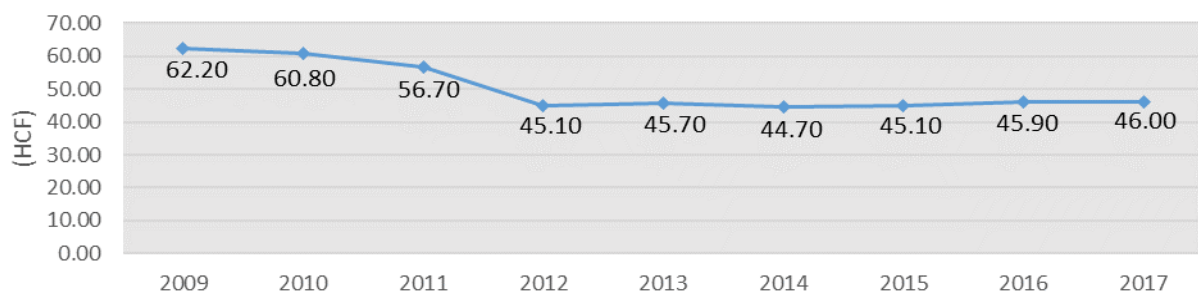
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Braintree (S)

## Residential Water Rates:

Last adjusted: June 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge per bill \$ 17.00  
 0 – 5 HCF \$ 2.77/HCF  
 >5 - 35 HCF \$ 4.18 "  
 >35 - 200 HCF \$ 7.72 "  
 >200 HCF \$ 10.99 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: June 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge per bill \$ 17.00  
 0 – 5 HCF \$ 5.74/HCF  
 >5 - 35 HCF \$ 7.26 "  
 >35 - 200 HCF \$ 12.74 "  
 >200 HCF \$ 13.99 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$541.40	1.69%
Sewer	\$908.80	12.61%
<b>Combined</b>	<b>\$1,450.20</b>	<b>8.27%</b>

## Annual Cost Based on Local, State & Federal Data

(63.5 HCF – See Appendix C  
for Data & Calc.)

Water	\$305.65
Sewer	\$499.34
<b>Combined</b>	<b>\$804.98</b>

Braintree has a \$5.00 discount for all customers, residential and commercial, if bill is paid within 30 days.

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

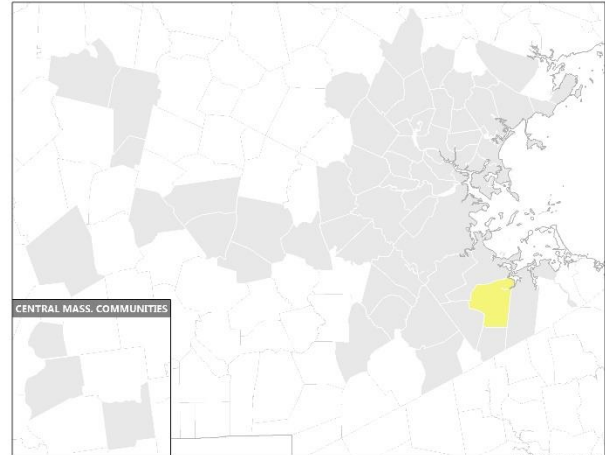
Same as residential

## Additional 2017 Data by Community

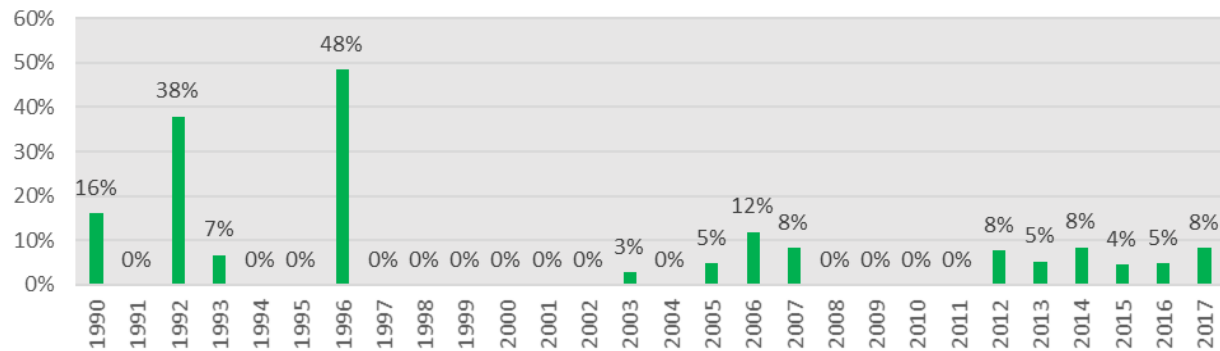
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	N/A	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$10-20 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy	

# Braintree (S)

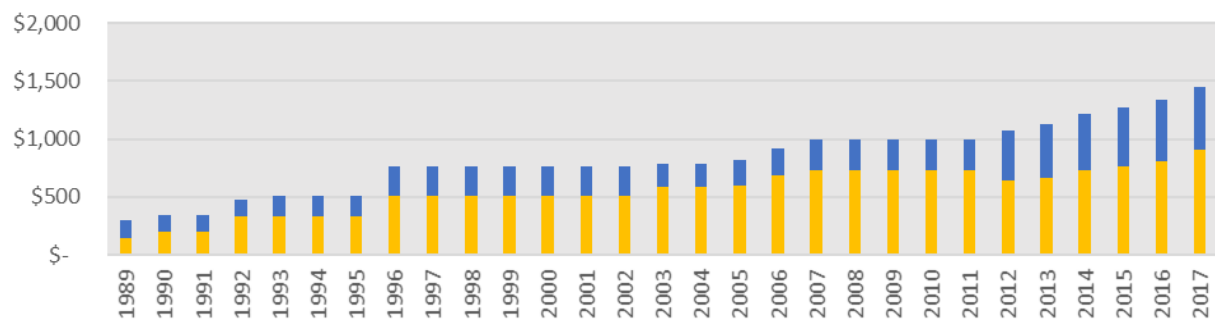
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$9,100,270	\$9,599,185	5.50%
<b>Combined</b>	\$9,100,270	\$9,599,185	5.50%



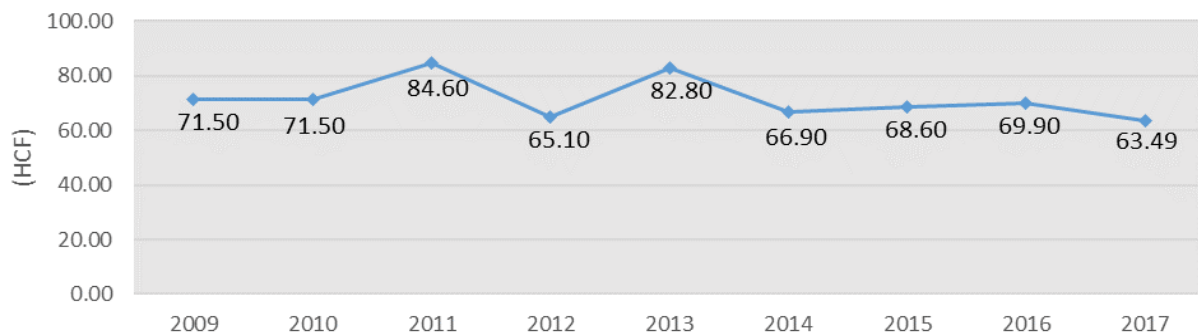
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Brookline (W/S)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge per bill \$30.00  
 0 – 7 HCF \$ 1.90/HCF  
 >7 HCF \$ 5.55 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge per bill \$30.00  
 0 – 7 HCF \$ 4.20/HCF  
 >7 HCF \$ 8.50 "

Based on 100% of water usage.  
 Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$683.80	0.00%
Sewer	\$1,019.60	0.00%
<b>Combined</b>	<b>\$1,703.40</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(74.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$430.72
Sewer	\$632.00
<b>Combined</b>	<b>\$1,062.72</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

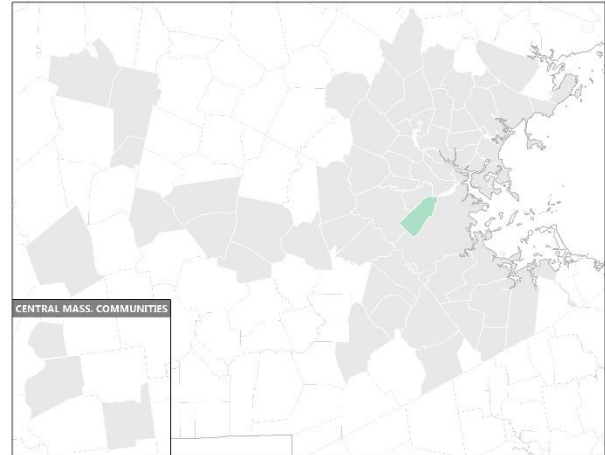
Same as residential

### Additional 2017 Data by Community

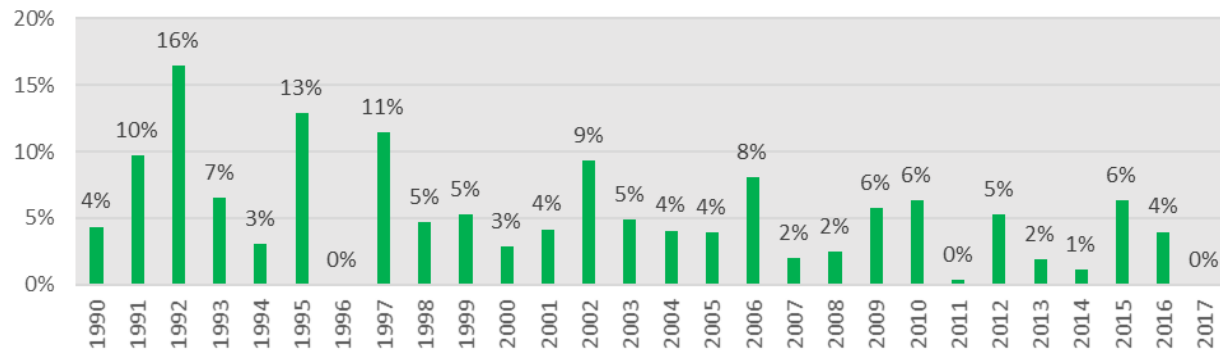
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	3-6 miles
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$10-20 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand-1 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Brookline (W/S)

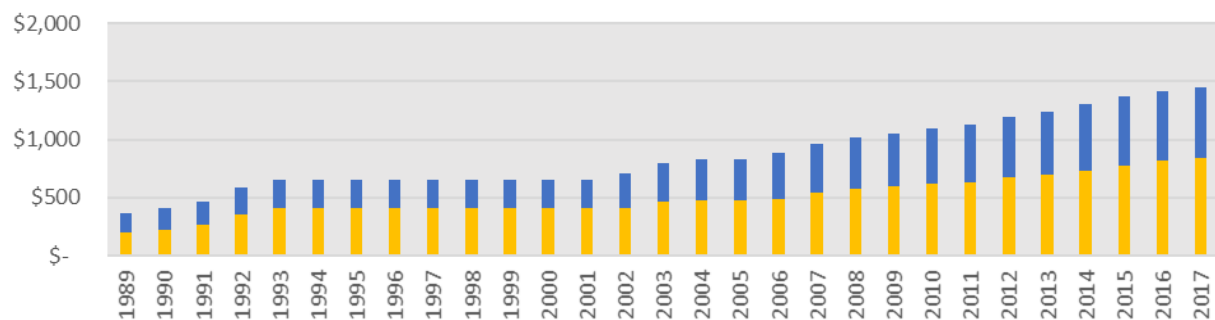
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$7,046,691	\$6,806,844	-3.40%
<b>Sewer</b>	\$12,894,419	\$12,978,537	0.70%
<b>Combined</b>	\$19,941,110	\$19,785,381	-0.80%



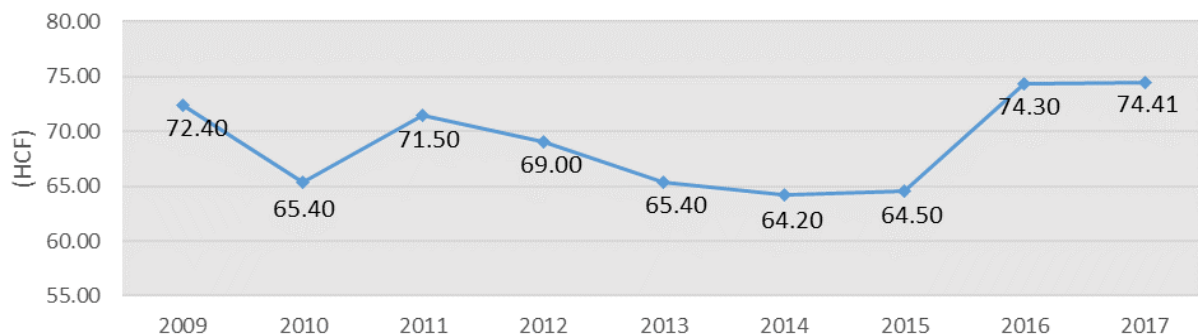
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Burlington (S)

## Residential Water Rates:

Last adjusted: December 2012  
 Next adjustment scheduled: Unknown  
 Fund: General

First 20 kgal \$37.00  
 >20 – 30 kgal \$ 2.00/kgal  
 >30 – 50 kgal \$ 2.75 "  
 >50 – 70 kgal \$ 3.50 "  
 >70 – 90 kgal \$ 4.50 "  
 >90 kgal \$ 4.75 "

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: December 2012  
 Next adjustment scheduled: Unknown  
 Fund: General

First 20 kgal \$42.00  
 >20 – 30 kgal \$ 6.00/kgal  
 >30 – 50 kgal \$ 6.25 "  
 >50 – 70 kgal \$ 7.00 "  
 >70 – 90 kgal \$ 8.00 "  
 >90 kgal \$ 9.50 "

Based on 100% of water usage.

Billing Frequency: Semi-Annually

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$196.50	0.00%
Sewer	\$391.50	0.00%
<b>Combined</b>	<b>\$588.00</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(67.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$94.00
Sewer	\$145.20
<b>Combined</b>	<b>\$239.20</b>

## Commercial Water Rates:

First 10 kgal \$18.50/quarter  
 >10 – 15 kgal \$ 3.00/ "  
 >15 – 35 kgal \$ 4.00/ "  
 > 35 kgal \$ 4.75/ "

## Commercial Sewer Rates:

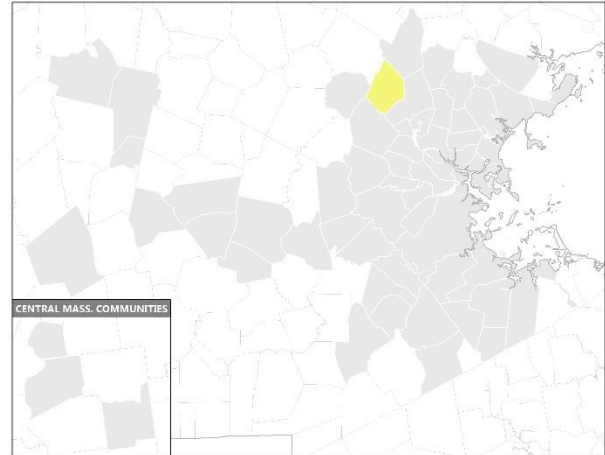
First 10 kgal \$34.00/quarter  
 >10 – 15 kgal \$ 7.00/ "  
 >15 – 35 kgal \$ 8.00/ "  
 > 35 kgal \$ 9.50/ "

### Additional 2017 Data by Community

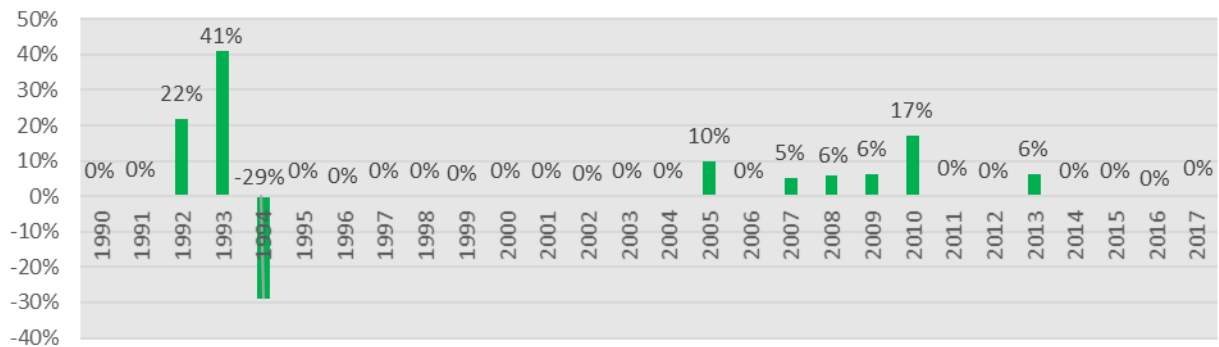
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	N/A	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand-1 million	Anticipated Sewer Capital Spending over Next Five Years	\$100 thousand-1 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy	

# Burlington (S)

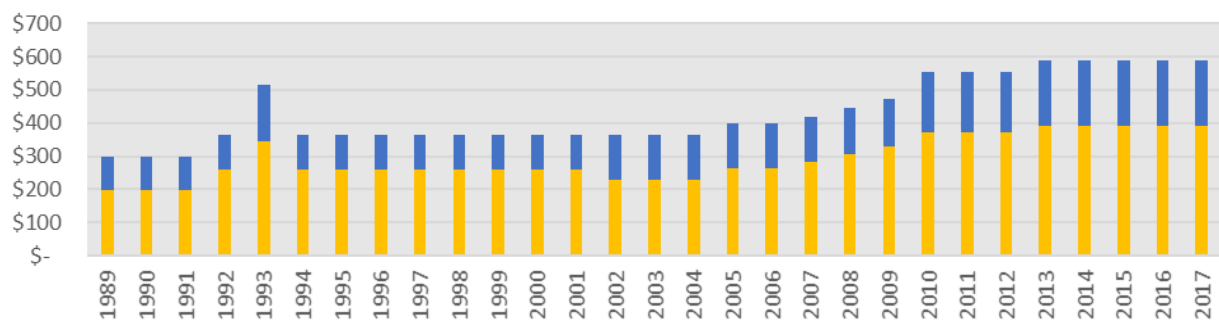
FY 2018 MWRA Assessments			
	FY17	FY18	% Change
Water	N/A	N/A	N/A
Sewer	\$5,078,461	\$5,286,375	4.10%
Combined	\$5,078,461	\$5,286,375	4.10%



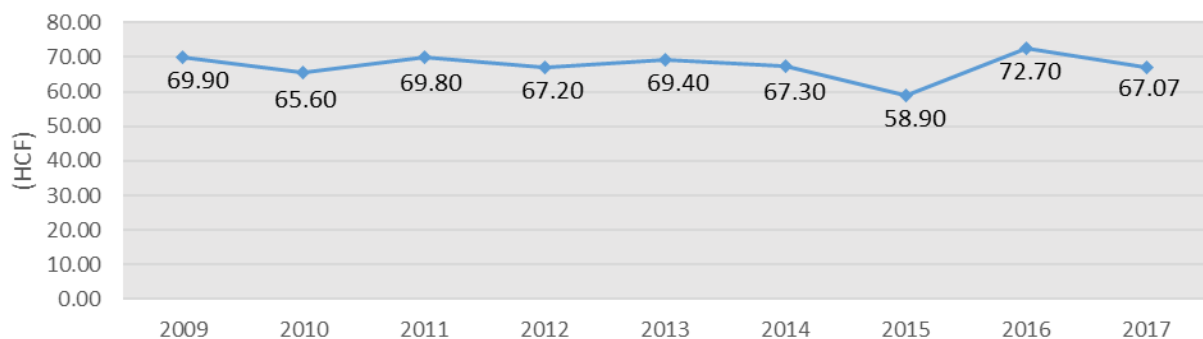
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Cambridge (S/partial W)

## Residential Water Rates:

Last adjusted: April 2011  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 40 HCF/year	\$3.02/HCF
>40 – 400 HCF/year	\$3.24 "
>400 – 2,000 HCF/year	\$3.44 "
>2,000 – 10,000 HCF/year	\$3.65 "
>10,000 HCF/year	\$3.96 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 40 HCF/year	\$ 10.23/HCF
>40 – 400 HCF/year	\$10.82 "
>400 – 2,000 HCF/year	\$11.62 "
>2,000 – 10,000 HCF/year	\$12.51 "
>10,000 HCF/year	\$13.30 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$380.00	0.00%
Sewer	\$1,274.80	7.67%
<b>Combined</b>	<b>\$1,654.80</b>	<b>5.81%</b>

### Annual Cost Based on Local, State & Federal Data

(44.8 HCF – See Appendix C  
for Data & Calc.)

Water	\$136.35
Sewer	\$461.14
<b>Combined</b>	<b>\$597.49</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

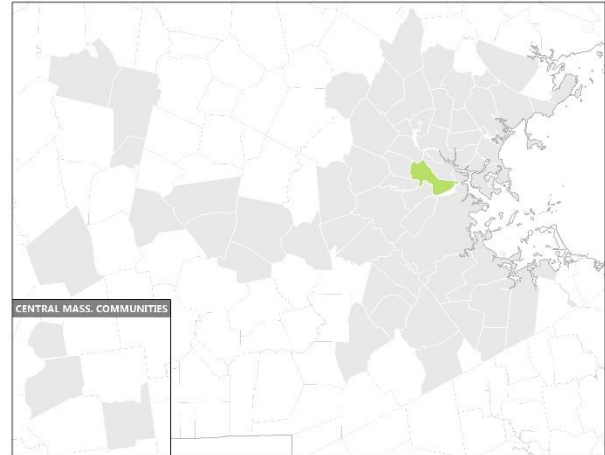
### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Both	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	No Response
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

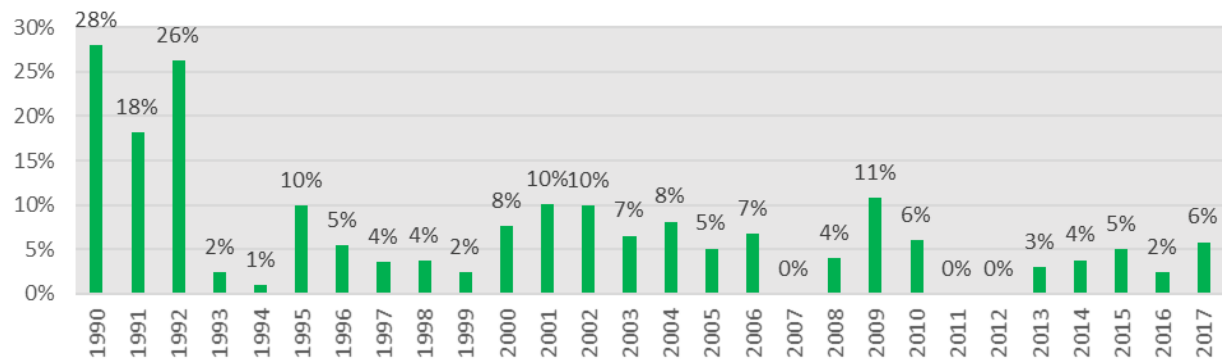


# Cambridge (S/partial W)

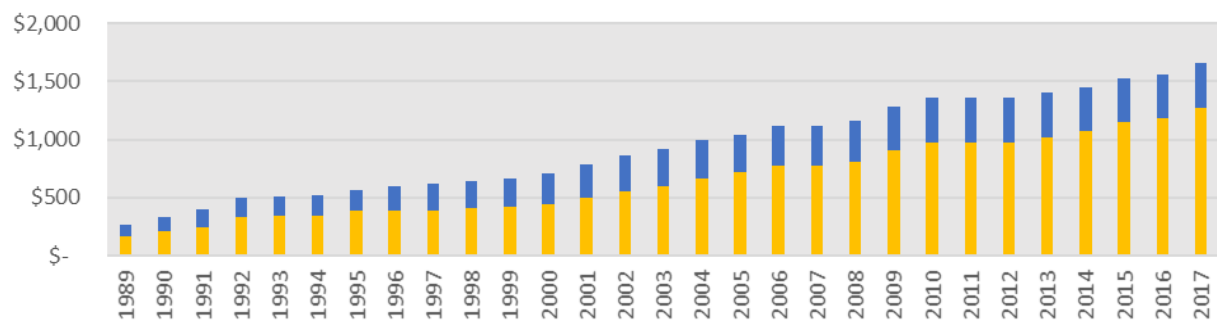
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$0	\$0	0.00%
<b>Sewer</b>	\$23,745,695	\$24,713,139	4.10%
<b>Combined</b>	\$23,745,695	\$24,713,139	4.10%



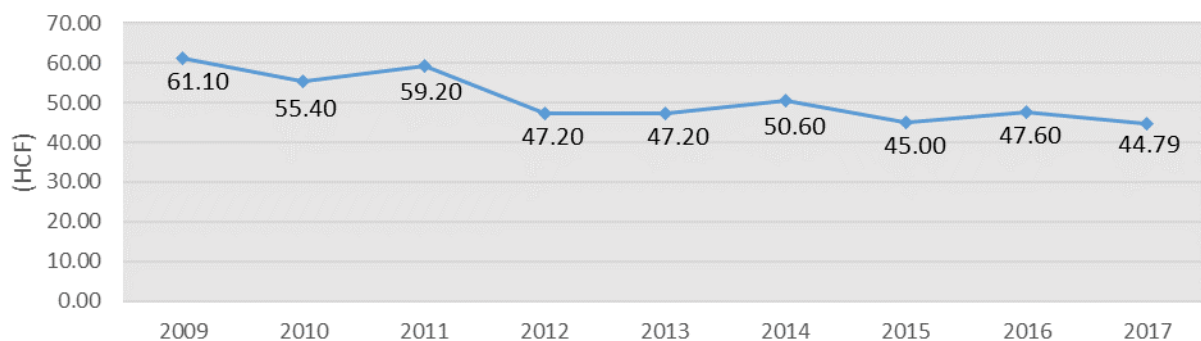
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Canton (S/partial W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base Charge \$12.50  
 1 – 15 HCF \$ 3.54/HCF  
 >15 – 40 HCF \$ 6.35 "  
 >40 – 100 HCF \$10.51 "  
 >100 HCF \$13.33 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base Charge \$5.00  
 1 – 15 HCF \$ 8.21/HCF  
 >15 – 40 HCF \$ 9.34 "  
 >40 – 100 HCF \$12.43 "  
 >100 HCF \$16.17 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$643.40	5.48%
Sewer	\$1,073.00	5.86%
<b>Combined</b>	<b>\$1,716.40</b>	<b>5.72%</b>

### Annual Cost Based on Local, State & Federal Data

(83.8 HCF – See Appendix C  
for Data & Calc.)

Water	\$414.80
Sewer	\$736.76
<b>Combined</b>	<b>\$1,151.56</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

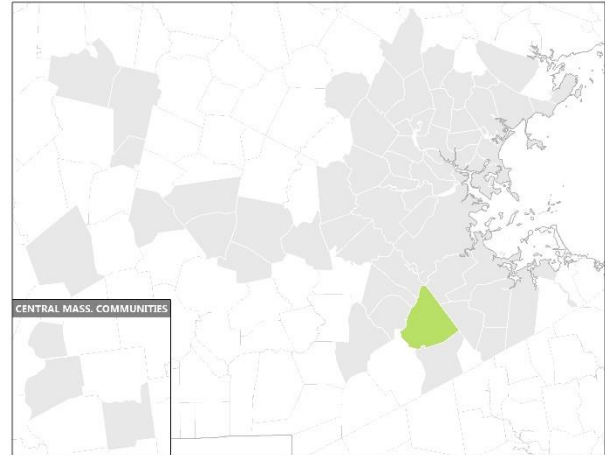
Same as residential

### Additional 2017 Data by Community

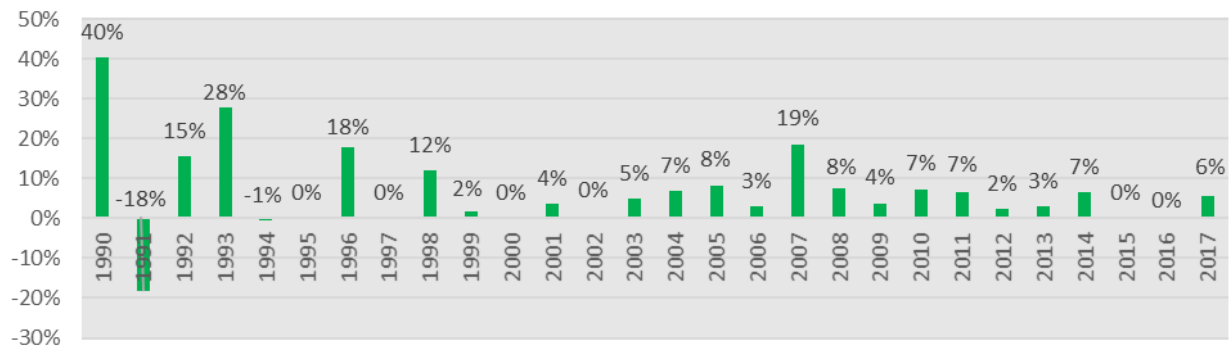
Does this Community Use Second Meters?		Yes		Does this Community Offer Senior and/or Low Income Discounts?		No
Water System				Sewer System		
MWRA Charges as % of Total Community Water Expenses	25-50%			MWRA Charges as % of Total Community Sewer Expenses	Over 75%	
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1			Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1	
Water Capital Needs over Next Five Years	\$0-10 million			Sewer Capital Needs over Next Five Years	\$0-10 million	
Anticipated Water Capital Spending over Next Five Years	\$1-5 million			Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million	
Stormwater						
Current Funding Source of Stormwater-Related Costs:			Tax Levy (DPW Budget)			

# Canton (S/partial W)

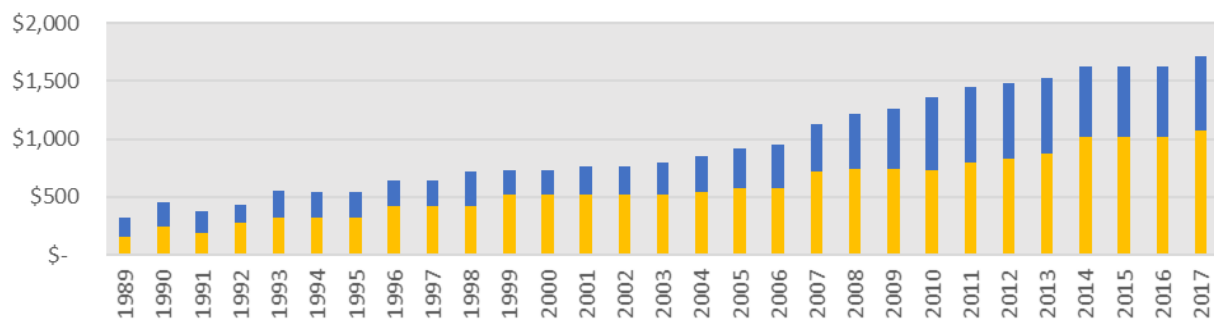
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$1,673,754	\$2,538,303	51.70%
<b>Sewer</b>	\$4,137,162	\$4,210,854	1.80%
<b>Combined</b>	\$5,810,916	\$6,749,157	16.10%



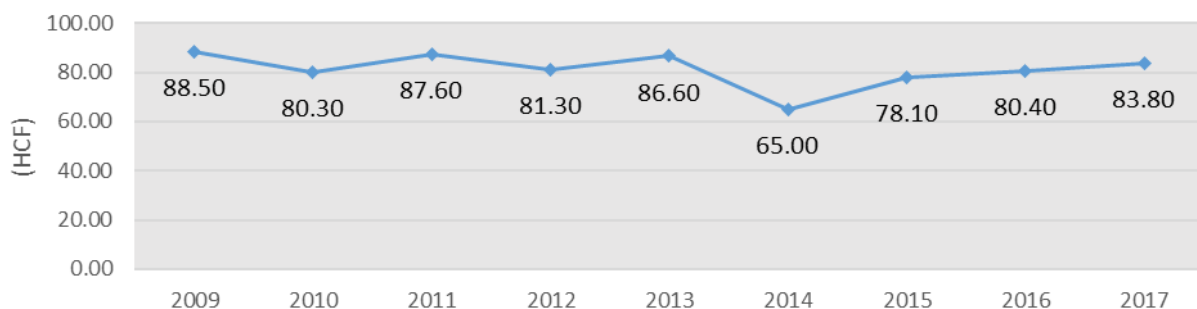
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Chelsea (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 10 HCF \$5.11/HCF  
 >10 – 25 HCF \$6.22 "  
 >50 HCF \$7.44 "

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 10 HCF \$ 8.60/HCF  
 >10 – 25 HCF \$ 9.38 "  
 >50 HCF \$10.77 "

Based on 100% of water usage.

Billing Frequency: Monthly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$613.20	8.96%
Sewer	\$1,032.00	3.99%
<b>Combined</b>	<b>\$1,645.20</b>	<b>5.79%</b>

### Annual Cost Based on Local, State & Federal Data

(68.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$349.52
Sewer	\$588.24
<b>Combined</b>	<b>\$937.76</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

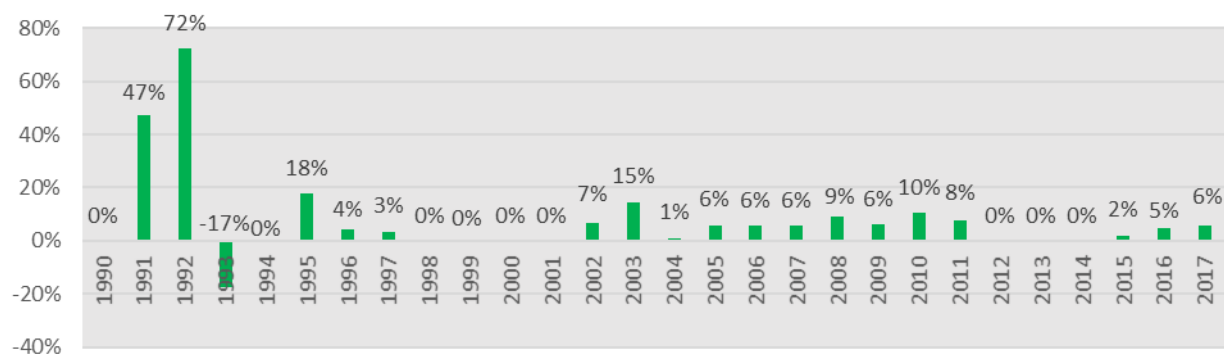
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	Over \$50 million	Sewer Capital Needs over Next Five Years	Over \$50 Million
Anticipated Water Capital Spending over Next Five Years	\$5-10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5-10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Chelsea (W/S)

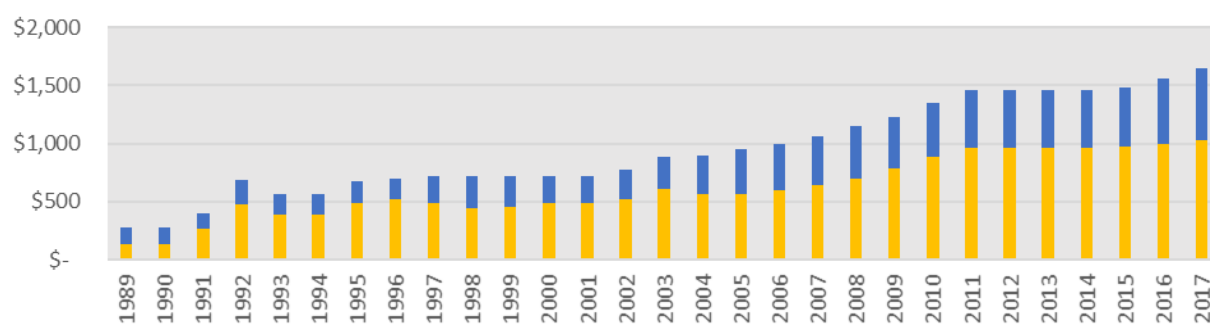
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$4,215,080	\$4,277,382	1.50%
<b>Sewer</b>	\$7,663,315	\$7,717,861	0.70%
<b>Combined</b>	\$11,878,395	\$11,995,243	1.00%



### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Chicopee (W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge \$10.00  
 0 – 10 HCF \$ 3.95/HCF  
 >10 HCF \$ 4.45 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge \$10.00  
 0 – 10 HCF \$ 6.32/HCF  
 >10 HCF \$ 7.12 "

Based on 100% of water usage, with a summer discount of 30% during the months of June, July, and August.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$514.00	5.33%
Sewer	\$758.32	2.55%
<b>Combined</b>	<b>\$1,272.32</b>	<b>3.66%</b>

## Annual Cost Based on Local, State & Federal Data

(68.7 HCF – See Appendix C  
for Data & Calc.)

Water	\$286.16
Sewer	\$421.12
<b>Combined</b>	<b>\$707.28</b>

## Commercial Water Rates:

Same as residential with \$2.00 water meter rental charge (5/8" meter)

## Commercial Sewer Rates:

Same as residential

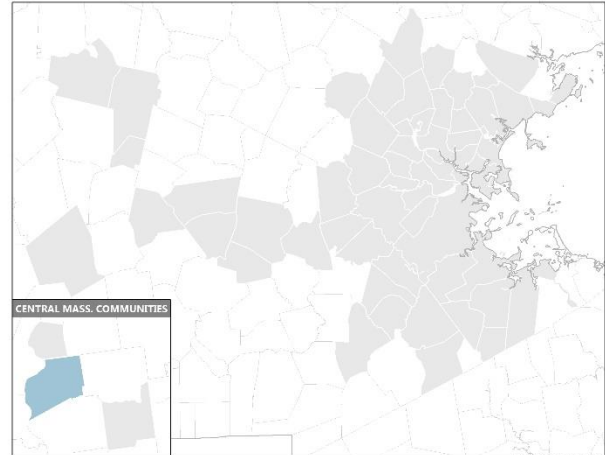
## Additional 2017 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	0-25%
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	3-6 miles
Water Capital Needs over Next Five Years	\$20 – 50 million	Sewer Capital Needs over Next Five Years	\$20 – 50 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	

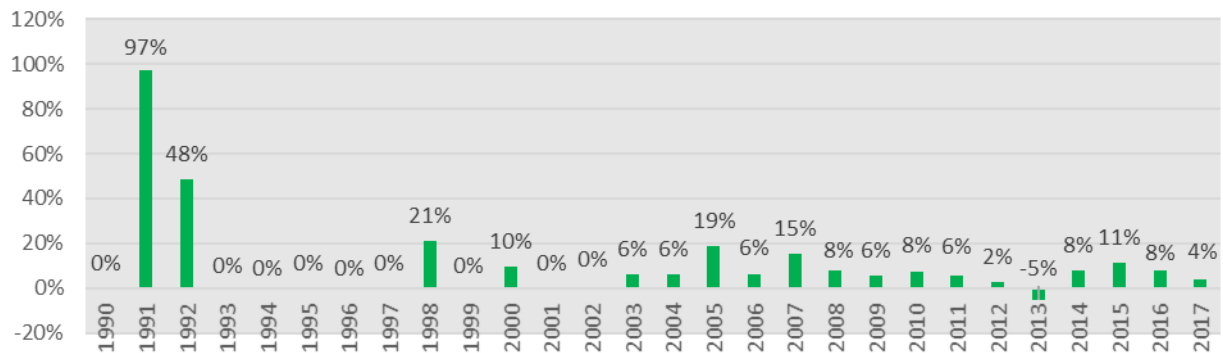
Chicopee is 1 of 3 MWRA communities that has established a special assessment to fund stormwater-related costs. The residential stormwater fee is \$25 per quarter; \$100 per year. For more information, see [Appendix G](#).

# Chicopee (W)

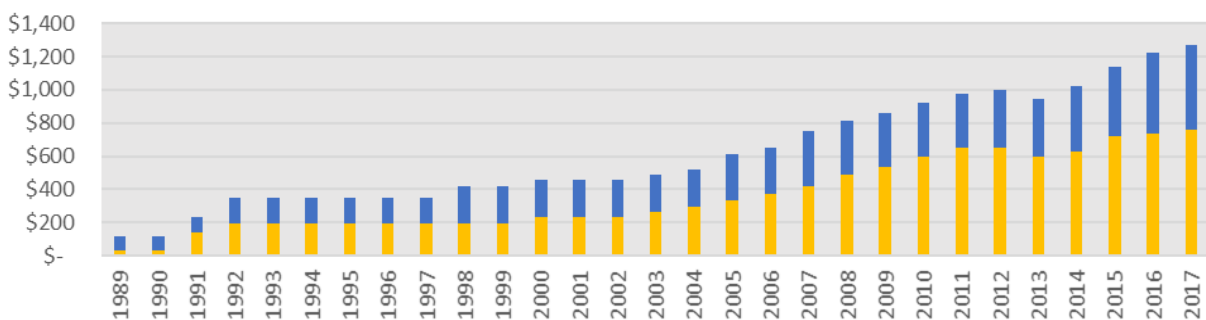
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$3,424,820	\$3,400,313	-0.70%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$3,424,820	\$3,400,313	-0.70%



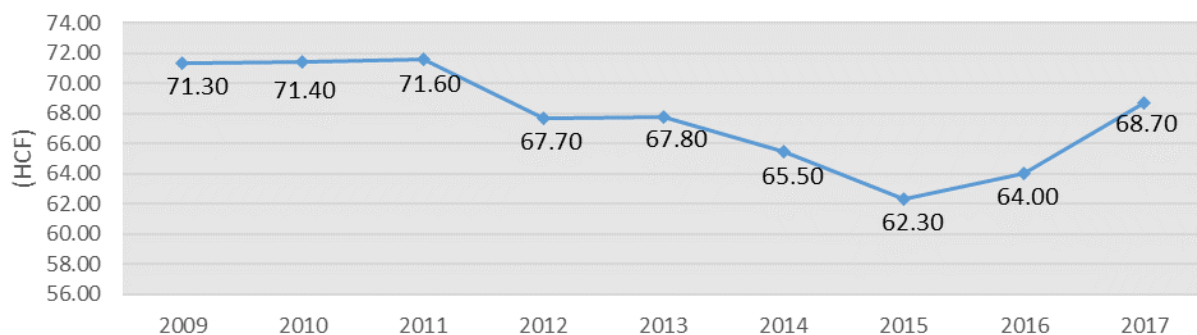
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Clinton (W/S)

## Residential Water Rates:

Last adjusted:	April 2017
Next adjustment scheduled:	Unknown
Fund:	Enterprise
Minimum charge	\$58.30
0 – 10 HCF	\$ 5.83/HCF
>10 – 30 HCF	\$ 1.34 "
>30 – 50 HCF	\$ 2.99 "
>50 – 200 HCF	\$ 3.21 "
Billing Frequency:	Quarterly

## Residential Sewer Rates:

Last adjusted:	April 2017
Next adjustment scheduled:	Unknown
Fund:	Enterprise
Minimum charge	\$43.70
Sewer bill is calculated as 75% of water bill.	
Billing Frequency:	Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$354.00	3.03%
Sewer	\$265.50	3.03%
<b>Combined</b>	<b>\$619.50</b>	<b>3.03%</b>

## Annual Cost Based on Local, State & Federal Data

(72.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$207.28
Sewer	\$155.46
<b>Combined</b>	<b>\$362.73</b>

- ♦ Clinton bills according to actual usage bi-annually, and uses the minimum bill listed for the interim bills.
- ♦ Chapter 307 of the Acts of 1987 § 8 limits Clinton's MWRA assessment to \$500,000 per year.

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

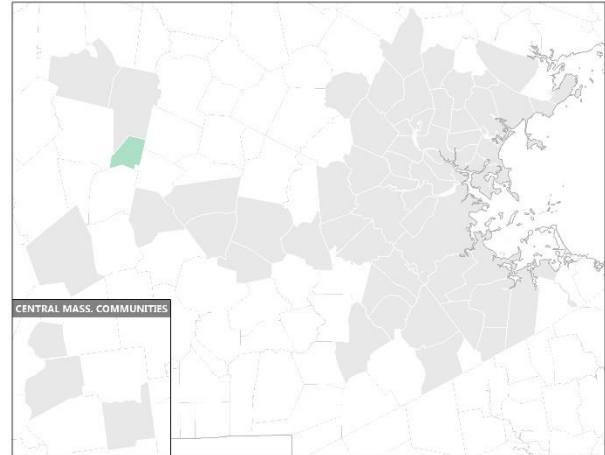
## Additional 2017 Data by Community

Does this Community Use Second Meters?	Yes, grandfathered accounts	Does this Community Offer Senior and/or Low Income Discounts?	No Response
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	0-25%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

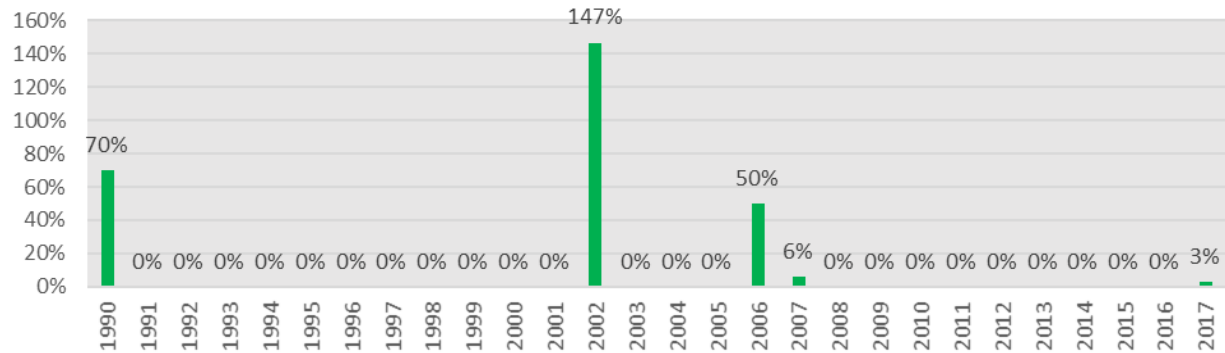


# Clinton (W/S)

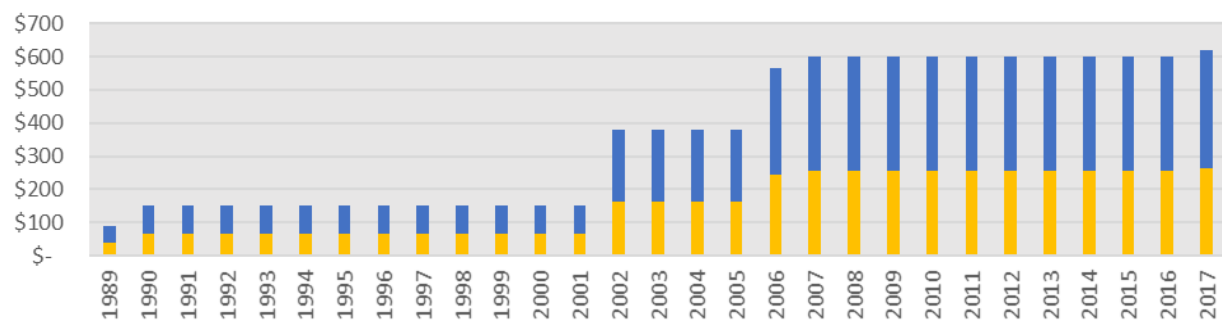
FY 2018 MWRA Assessments			
	FY17	FY18	% Change
Water	\$0	\$0	0.00%
Sewer	\$500,000	\$500,000	0.00%
Combined	\$500,000	\$500,000	0.00%



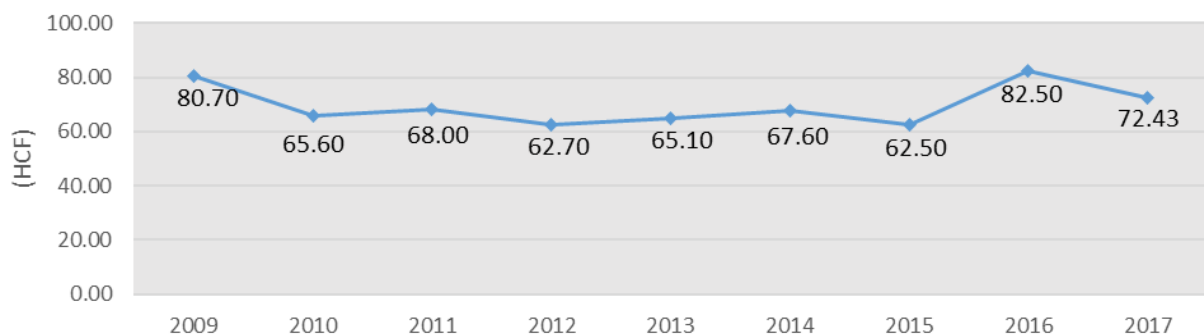
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Dedham (S/ partial W)

## Residential Water Rates:

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

Minimum charge per bill includes first 3 HCF (5/8" meter) \$12.57  
 >3 – 42 HCF \$ 4.43/HCF  
 >42 – 75 HCF \$ 7.19 "  
 >75 HCF \$ 9.31 "

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: June 2008  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge per bill includes first 3 HCF (5/8" meter) \$32.32  
 >5 HCF \$ 8.08/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$629.28	0.17%
Sewer	\$937.28	0.00%
<b>Combined</b>	<b>\$1,566.56</b>	<b>0.07%</b>

## Annual Cost Based on Local, State & Federal Data

(79.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$448.54
Sewer	\$769.22
<b>Combined</b>	<b>\$1,217.75</b>

## Commercial Water Rates:

Minimum charge (with 9HCF): \$55.95  
 All other units \$ 4.43/HCF

## Commercial Sewer Rates:

Minimum charge (with 9HCF): \$45.20  
 All other units \$11.30/HCF

## Additional 2017 Data by Community

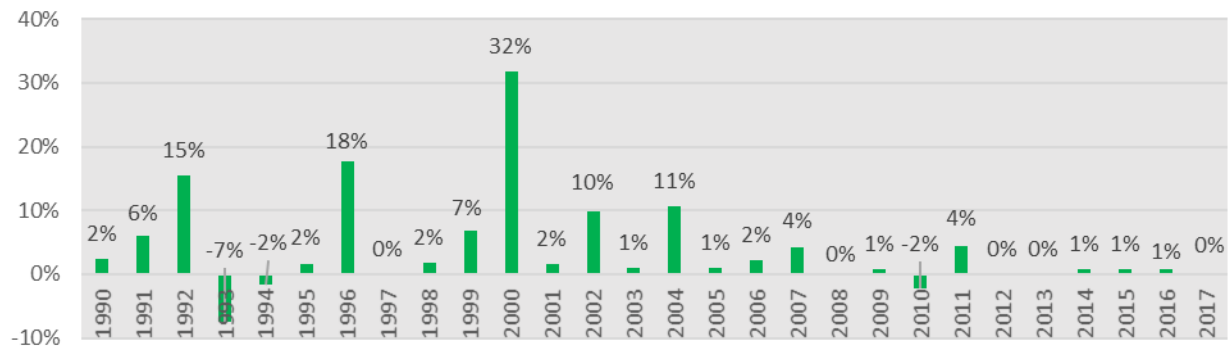
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Low Income Discounts?	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	0-25%
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	3-6 miles
Water Capital Needs over Next Five Years	\$20-50 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Dedham (S/ partial W)

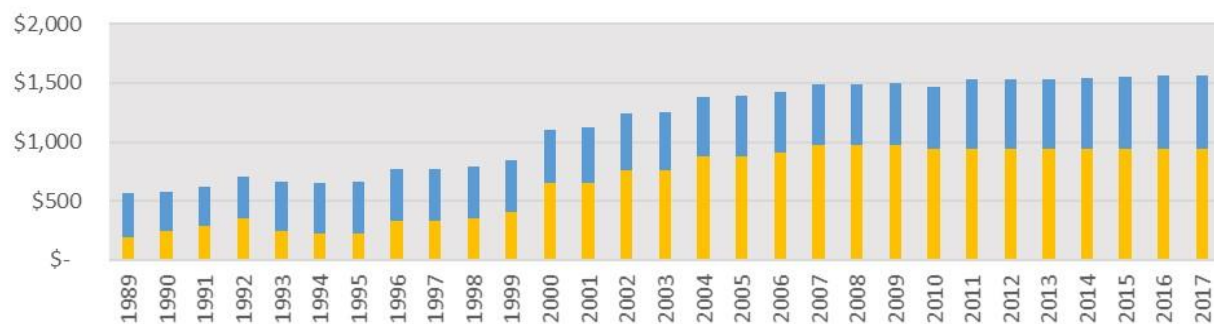
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$196,381	\$295,794	50.60%
<b>Sewer</b>	\$5,311,572	\$5,482,446	3.20%
<b>Combined</b>	\$5,507,953	\$5,778,240	4.90%



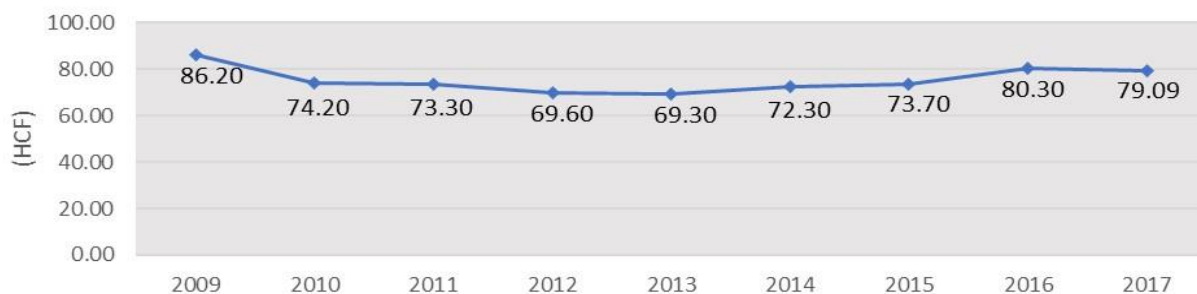
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Everett (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 30 HCF	\$2.33/HCF
>30 – 60 HCF	\$2.96 "
>60 – 90 HCF	\$3.56 "
>90 – 240 HCF	\$4.06 "
>240 HCF	\$4.88 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 30 HCF	\$6.35/HCF
>30 – 60 HCF	\$ 8.32 "
>60 – 90 HCF	\$ 9.56 "
>90 – 240 HCF	\$ 10.72 "
>240 HCF	\$ 11.93 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$279.60	2.19%
Sewer	\$762.00	1.93%
<b>Combined</b>	<b>\$1,041.60</b>	<b>2.00%</b>

## Annual Cost Based on Local, State & Federal Data

(64.3 HCF – See Appendix C  
for Data & Calc.)

Water	\$150.05
Sewer	\$408.94
<b>Combined</b>	<b>\$558.99</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

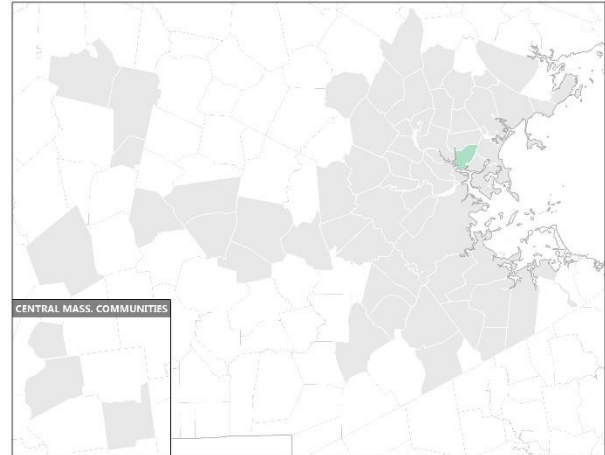
Same as residential

## Additional 2017 Data by Community

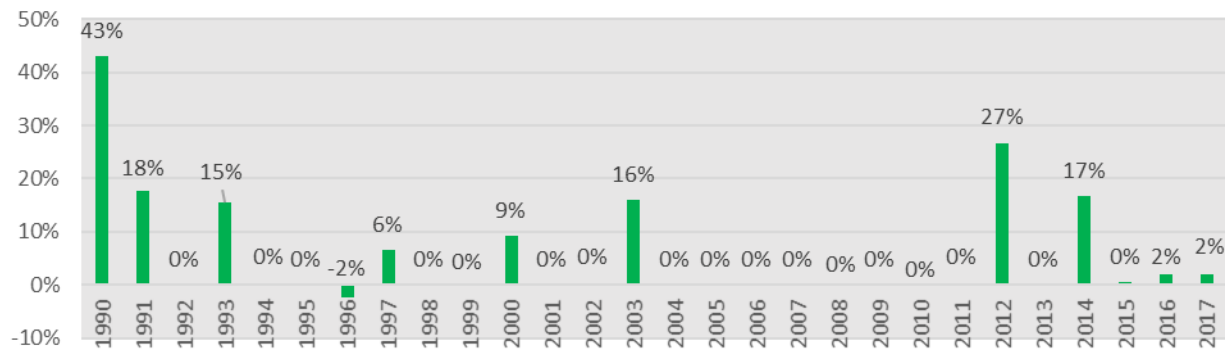
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	Over 75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	No response	Miles of sewer pipeline replaced/rehabilitated in FY17	No response
Water Capital Needs over Next Five Years	\$10-20 million	Sewer Capital Needs over Next Five Years	\$10-20 million
Anticipated Water Capital Spending over Next Five Years	\$1-5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Operating Budget / Tax Levy	

# Everett (W/S)

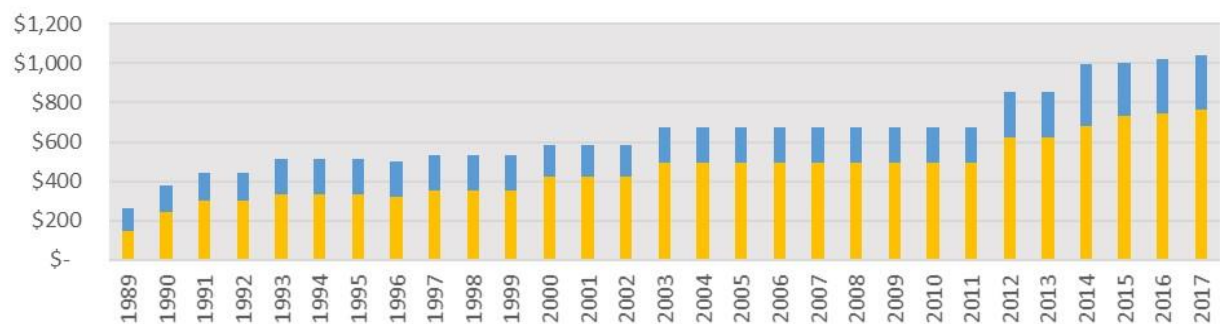
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$4,948,191	\$5,182,465	4.70%
<b>Sewer</b>	\$8,124,101	\$8,378,885	3.10%
<b>Combined</b>	\$13,072,292	\$13,561,350	3.70%



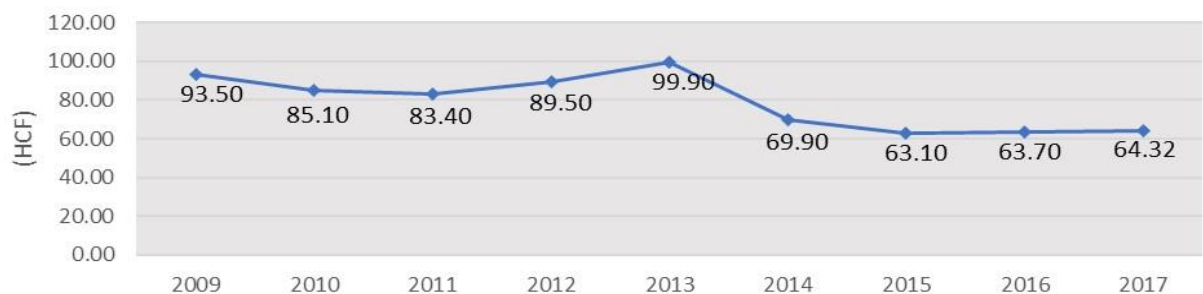
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Framingham (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 12 HCF	\$ 6.01/HCF
>12 – 27 HCF	\$ 6.68 "
>27 – 51 HCF	\$ 7.77 "
>51 – 750 HCF	\$ 9.16 "
>750 HCF	\$11.10 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 12 HCF	\$ 7.80/HCF
>12 – 27 HCF	\$ 8.05 "
>27 – 51 HCF	\$ 10.80 "
>51 – 750 HCF	\$ 15.45 "
>750 HCF	\$ 22.44 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$782.52	2.00%
Sewer	\$987.00	2.00%
<b>Combined</b>	<b>\$1,769.52</b>	<b>2.00%</b>

## Annual Cost Based on Local, State & Federal Data

(64.3 HCF – See Appendix C  
for Data & Calc.)

Water	\$398.03
Sewer	\$506.42
<b>Combined</b>	<b>\$904.45</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

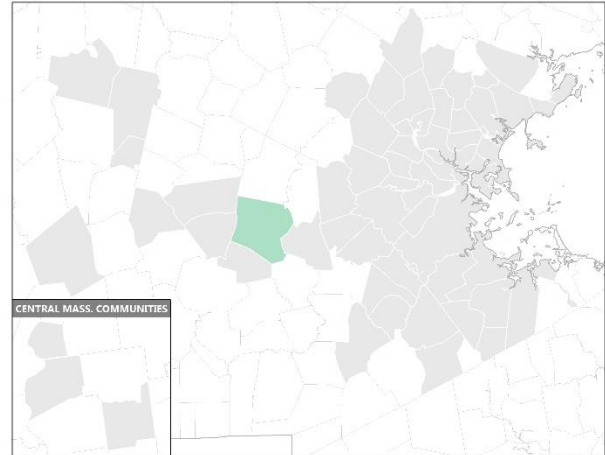
Same as residential

## Additional 2017 Data by Community

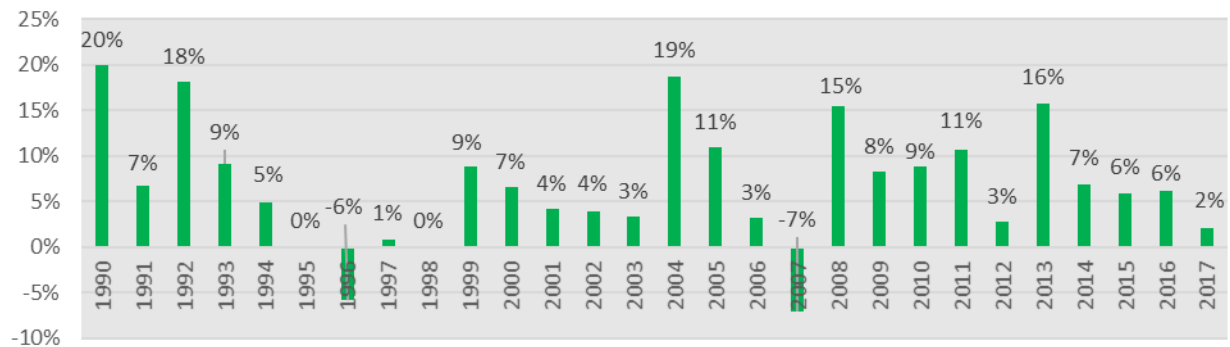
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	3-6 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	3-6 miles
Water Capital Needs over Next Five Years	Over \$50 million	Sewer Capital Needs over Next Five Years	Over \$50 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Framingham (W/S)

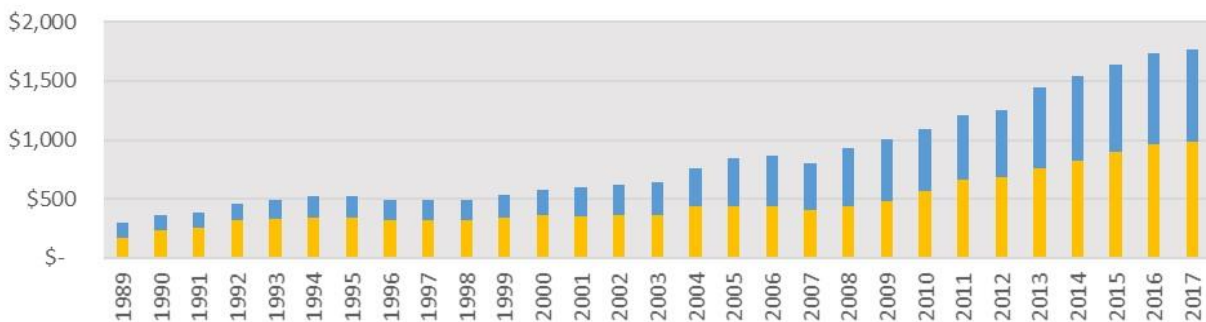
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$8,159,808	\$8,003,044	-1.90%
<b>Sewer</b>	\$12,824,962	\$13,063,056	1.90%
<b>Combined</b>	\$20,984,770	\$21,066,100	0.40%



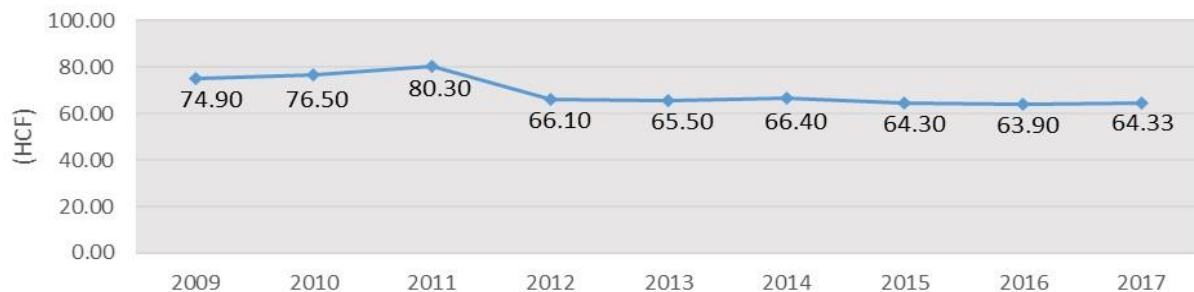
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Hingham (S)

## Residential Water Rates:

Last adjusted: November 2012  
 Next adjustment scheduled: Unknown  
 Fund: Private Company

Base charge (5/8" meter) \$46.83  
 0 – 12 HCF \$ 2.874/HCF  
 >12 HCF \$ 3.915 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: May 2017  
 Next adjustment scheduled: April 2018  
 Fund: Special Revenue

All units \$ 9.90/HCF

Based on 100% of water usage.

Billing Frequency: Semi-Annually

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$816.68	0.00%
Sewer	\$1,188.00	5.32%
<b>Combined</b>	<b>\$2,004.68</b>	<b>3.09%</b>

### Annual Cost Based on Local, State & Federal Data

(67.2 HCF – See Appendix C  
for Data & Calc.)

Water	\$517.78
Sewer	\$665.28
<b>Combined</b>	<b>\$1,183.06</b>

## Commercial Water Rates:

Base charge (5/8" meter): \$55.95  
 0-12 HCF \$ 2.107/HCF  
 >12 HCF \$ 2.638/HCF

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income Discounts?
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$100 thousand to \$1 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

♦ Hingham's water services are provided by the Aquarion Water Company.

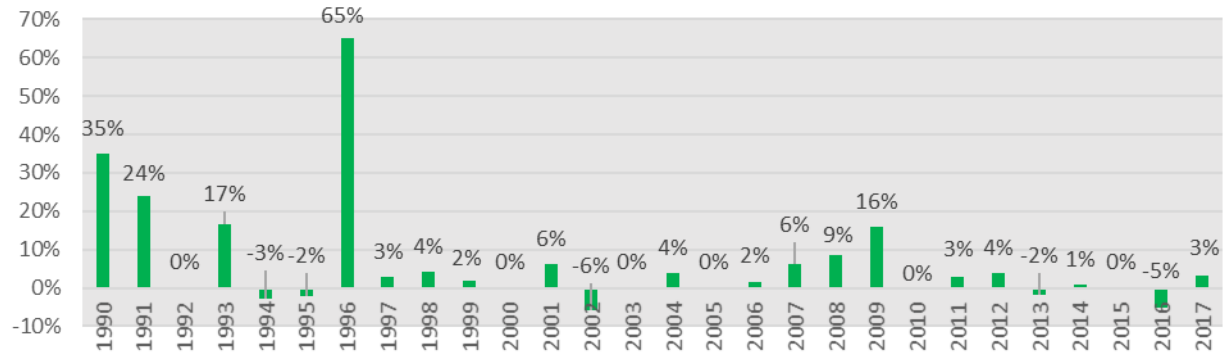


# Hingham (S)

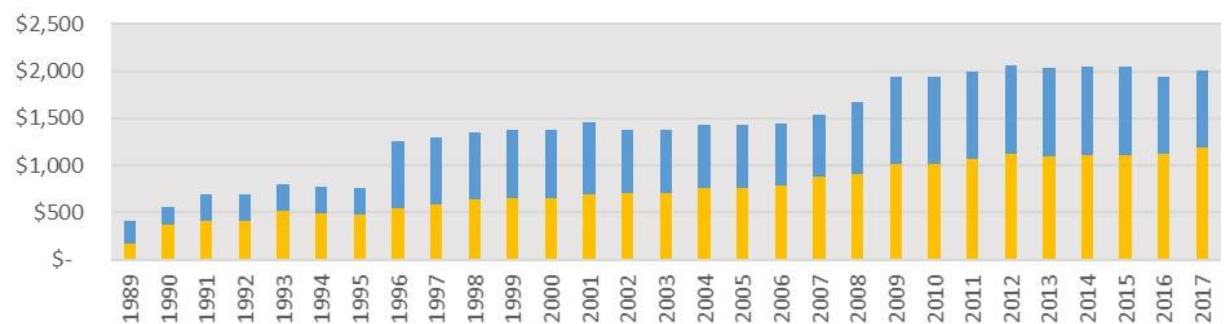
FY 2018 MWRA Assessments			
	FY17	FY18	% Change
Water	N/A	N/A	N/A
Sewer	\$1,798,028	\$1,846,255	2.70%
Combined	\$1,798,028	\$1,846,255	2.70%



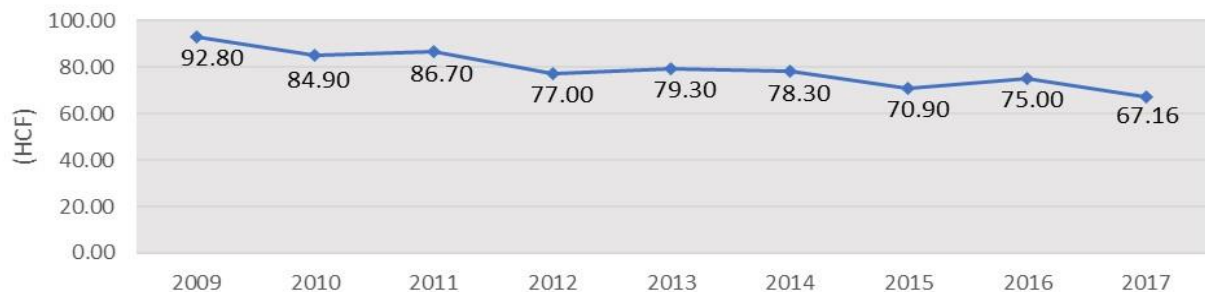
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Holbrook (S)

## Residential Water Rates:

Last adjusted: December 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge \$67.80  
 All units \$ 6.70/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: December 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge \$131.88  
 All units \$ 7.63/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly (2 estimated bills)

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$804.00	2.92%
Sewer	\$915.60	4.52%
<b>Combined</b>	<b>\$1,719.60</b>	<b>3.77%</b>

### Annual Cost Based on Local, State & Federal Data

(56.9 HCF – See Appendix C  
for Data & Calc.)

Water	\$380.56
Sewer	\$433.38
<b>Combined</b>	<b>\$813.94</b>

## Commercial Water Rates:

All units \$ 6.83/HCF

## Commercial Sewer Rates:

All units \$ 6.80/HCF

### Additional 2017 Data by Community

Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	N/A	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	1-3 miles
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1-5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	

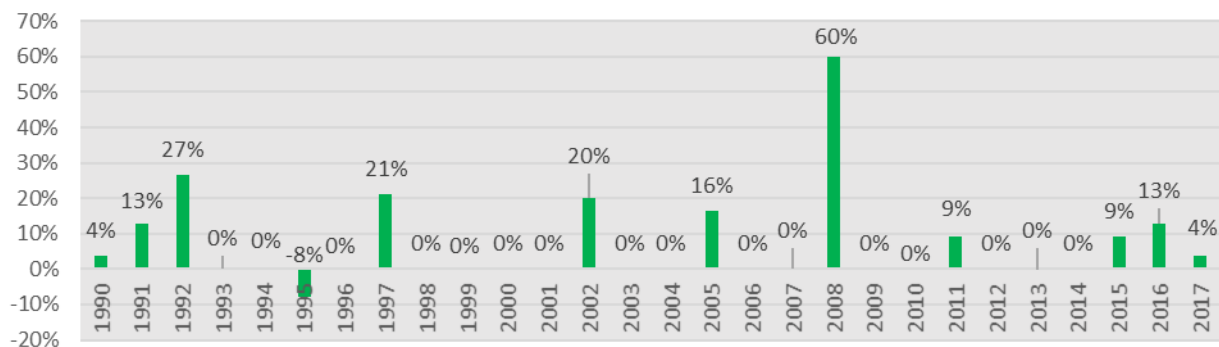
# Holbrook (S)

## FY 2018 MWRA Assessments

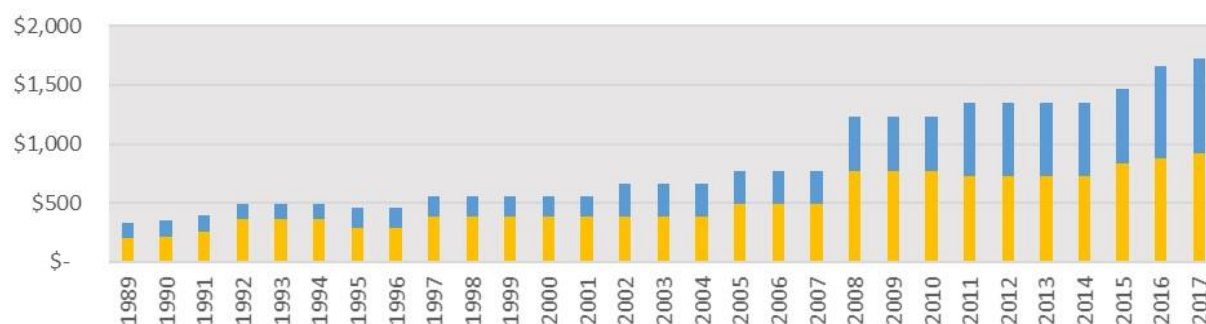
	FY17	FY18	% Change
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$1,759,996	\$1,804,666	2.50%
<b>Combined</b>	\$1,759,996	\$1,804,666	2.50%



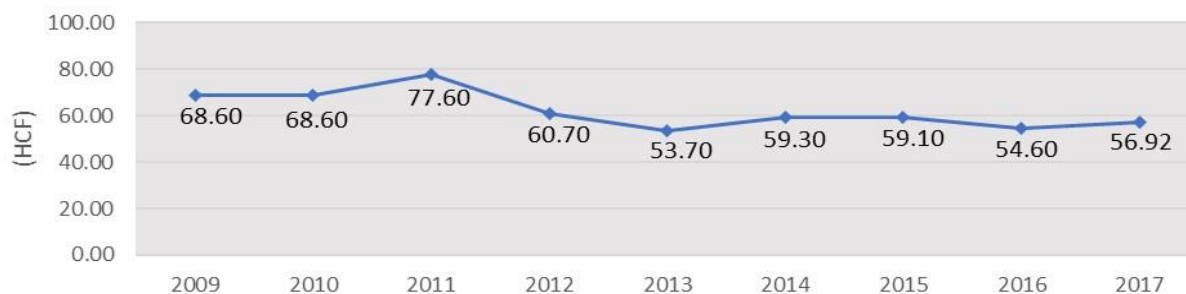
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Leominster (partial W)

## Residential Water Rates:

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue  
 First 3 HCF \$40.00  
 >3 HCF \$ 3.67/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue  
 First 3 HCF \$40.00  
 >3 HCF \$ 4.75/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$476.36	4.50%
Sewer	\$521.72	2.55%
<b>Combined</b>	<b>\$998.08</b>	<b>3.47%</b>

### Annual Cost Based on Local, State & Federal Data

(55.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$282.58
Sewer	\$305.77
<b>Combined</b>	<b>\$588.35</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	1-3 miles
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy	

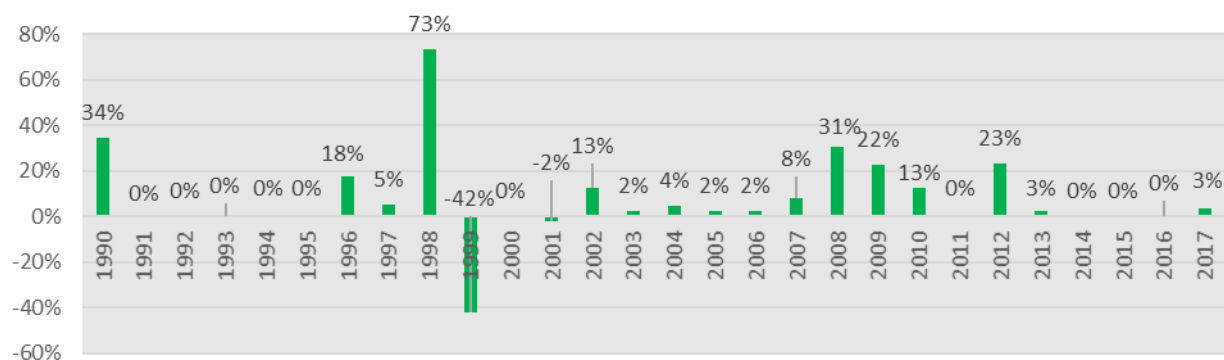
# Leominster (partial W)

## FY 2018 MWRA Assessments

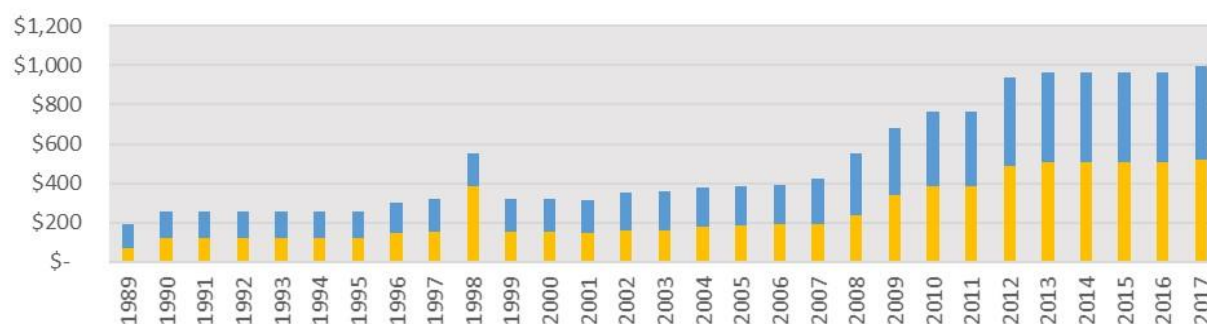
	FY17	FY18	% Change
<b>Water</b>	\$0	\$0	0.00%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$0	\$0	0.00%



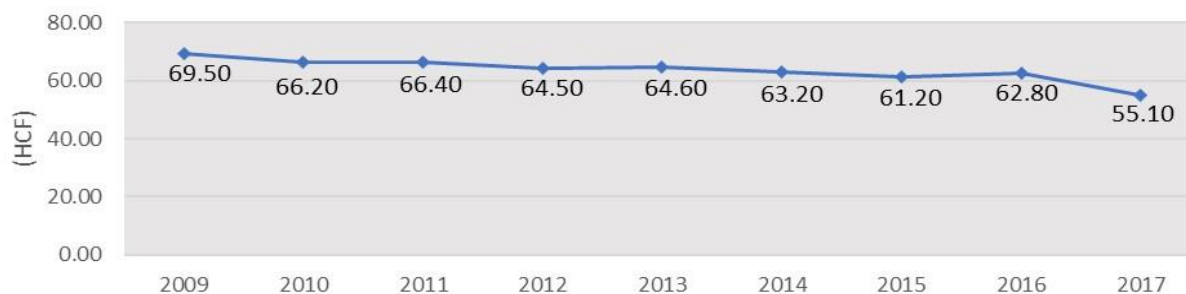
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Lexington (W/S)

<b>Residential Sewer Rates:</b>	
Last adjusted:	April 2017
Next adjustment scheduled:	April 2018
Fund:	Enterprise
0 – 40 HCF	\$3.89/HCF
>40 – 80 HCF	\$5.83 "
>80 HCF	\$7.69 "
Based on 100% of water usage.	
Billing Frequency:	Semi-Annually

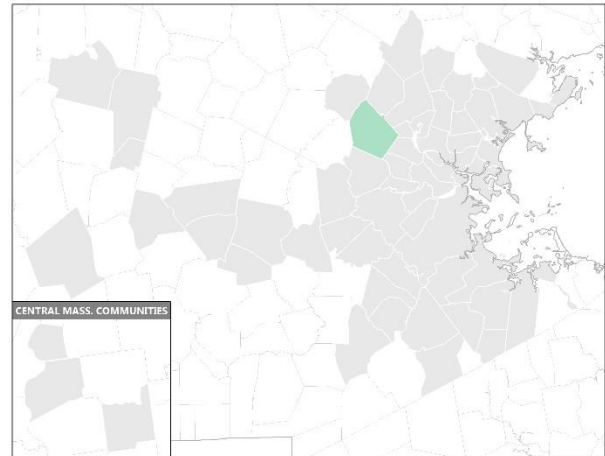
Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)			Annual Cost Based on Local, State & Federal Data (127.3 HCF – See Appendix C for Data & Calc.)	
Utility	Rate	Change from 2016		
Water	\$544.40	3.42%	Water	\$587.54
Sewer	\$996.80	0.28%	Sewer	\$1,079.68
<b>Combined</b>	<b>\$1,541.20</b>	<b>1.37%</b>	<b>Combined</b>	<b>\$1,667.22</b>

<b>Commercial Water Rates:</b>		<b>Commercial Sewer Rates:</b>	
Same as residential		Same as residential	
<b>Additional 2017 Data by Community</b>			
Does this Community Use Second Meters?		Does this Community Offer Senior and/or Low Income Discounts?	
Yes		Yes, Low Income Discounts?	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	Over 75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5 – 10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Operating Budget / Tax Levy	

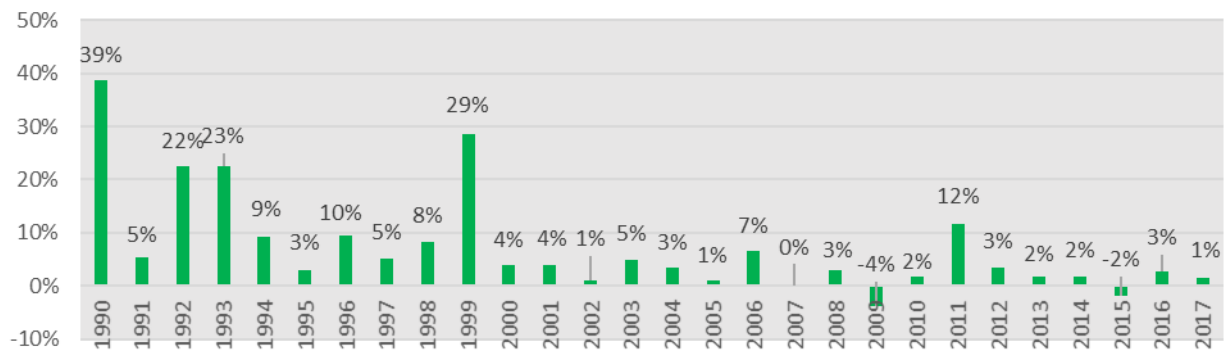
# Lexington (W/S)

## FY 2018 MWRA Assessments

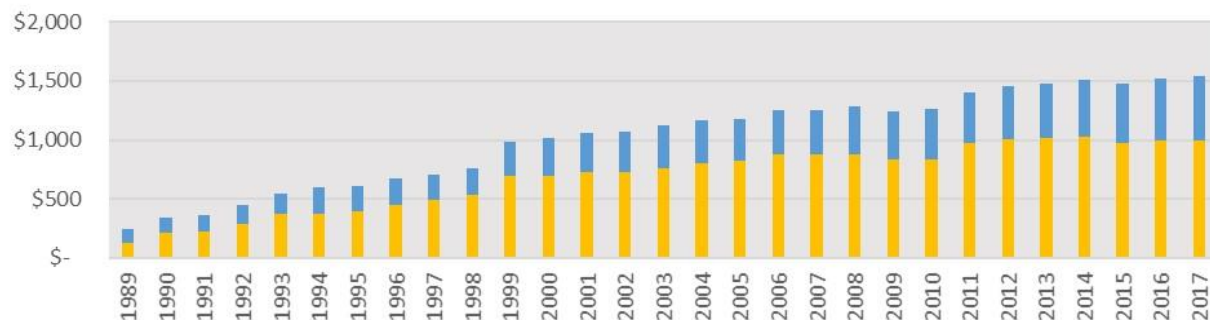
	FY17	FY18	% Change
<b>Water</b>	\$7,349,661	\$7,246,531	-1.40%
<b>Sewer</b>	\$7,265,870	\$7,402,979	1.90%
<b>Combined</b>	\$14,615,531	\$14,649,510	0.20%



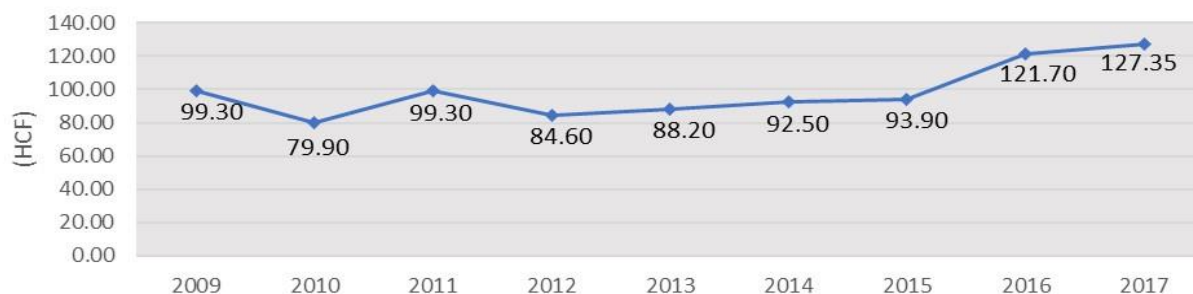
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Lynn (partial W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 27 HCF \$3.59/HCF  
 >27 – 73 HCF \$3.70 "  
 >73 – 2,812 HCF \$3.76 "  
 >2,812 HCF \$3.81 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 27 HCF \$6.59 "  
 >27 – 73 HCF \$6.81 "  
 >73 – 2,812 HCF \$6.92 "  
 >2,812 HCF \$6.97 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$432.12	1.98%
Sewer	\$793.44	2.01%
<b>Combined</b>	<b>\$1,225.56</b>	<b>2.00%</b>

## Annual Cost Based on Local, State & Federal Data

(71.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$255.61
Sewer	\$469.21
<b>Combined</b>	<b>\$724.82</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

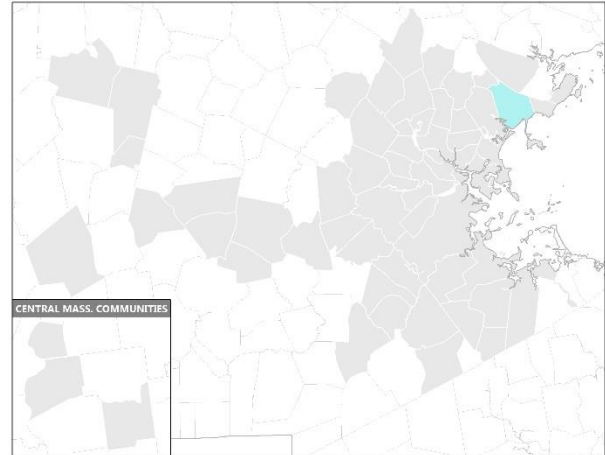
## Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Both	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$10-20 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand to \$1 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	



# Lynn (partial W)

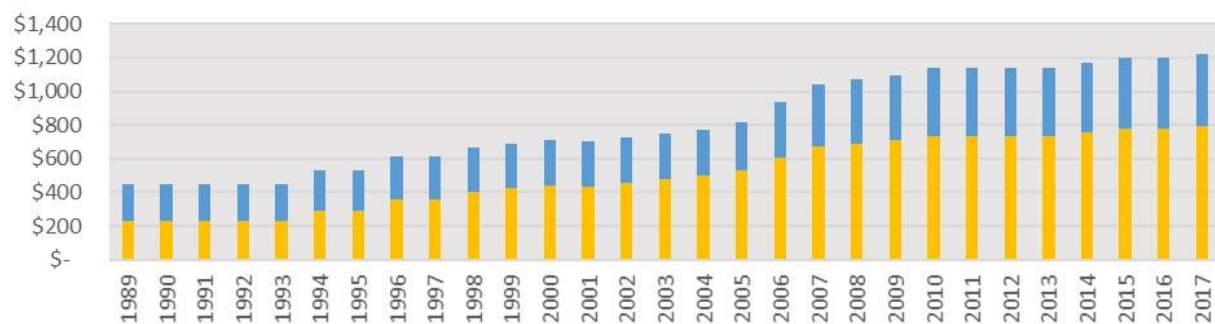
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$243,938	\$326,368	33.80%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$243,938	\$326,368	33.80%



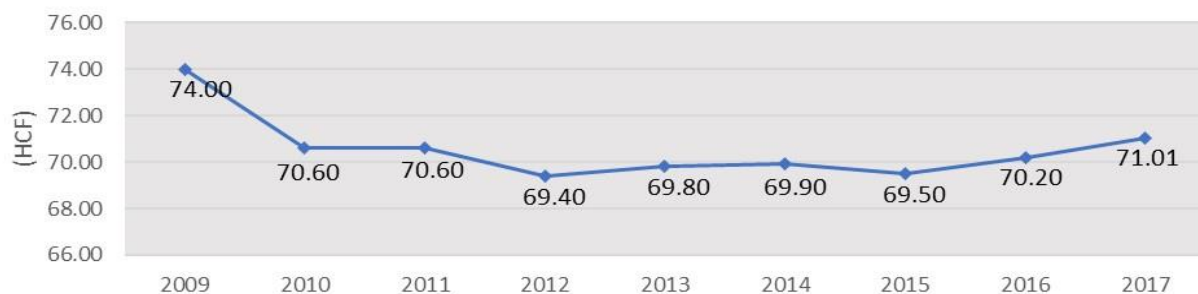
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Lynnfield – Lynnfield Water District (W)

## Residential Water Rates:

Last adjusted: April 2014  
 Next adjustment scheduled: Unknown  
 Fund: General

Base charge (includes 0 – 20 HCF): \$66.00/bill  
 >20 – 100 HCF \$ 2.86/HCF  
 >100 HCF \$ 3.10 "

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: Not applicable  
 Next adjustment scheduled: Not applicable  
 Fund: Not applicable

Community not sewerred.

Billing Frequency:

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$377.40	0.00%
Sewer	\$0.00	0.00%
<b>Combined</b>	<b>\$377.40</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(109.9 HCF – See Appendix C  
for Data & Calc.)

Water	\$434.60
Sewer	\$0.00
<b>Combined</b>	<b>\$434.60</b>

- ♦ Lynnfield has a 10% discount for water service for all customers if bill is paid within 20 days.
- ♦ A portion of the water district's budget is raised via the property tax.

## Commercial Water Rates:

Base charge (includes 10 HCF): \$66.00  
 >10-50 HCF \$ 2.86/HCF  
 >12 HCF \$ 3.10/HCF

## Commercial Sewer Rates:

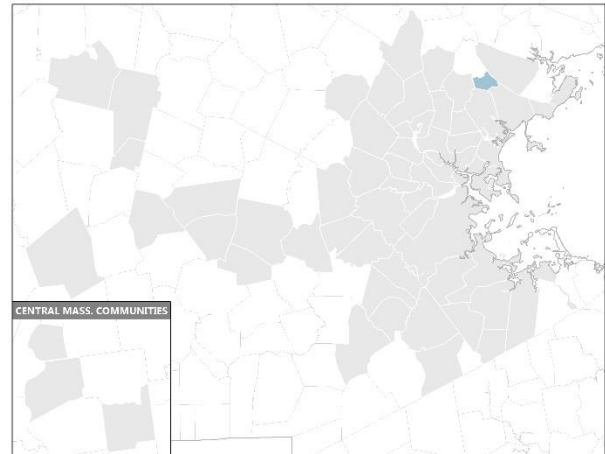
N/A

### Additional 2017 Data by Community

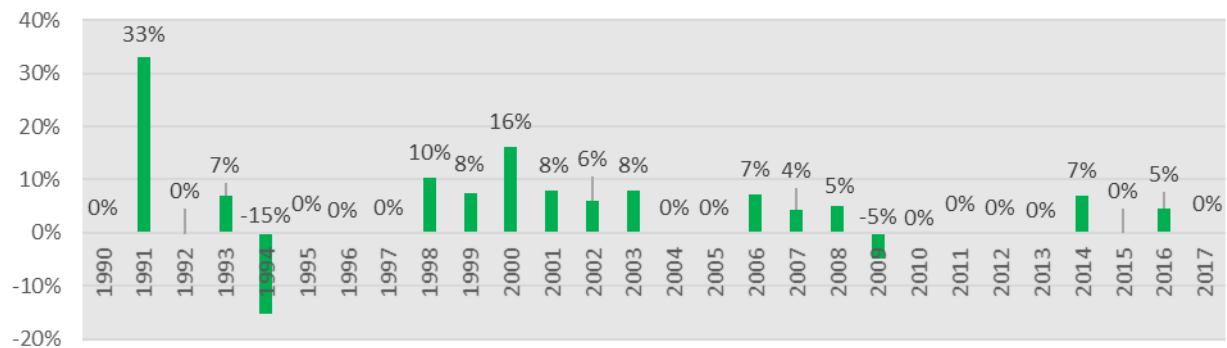
Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	N/A
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	N/A
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	N/A
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		N/A	

# Lynnfield – Lynnfield Water District (W)

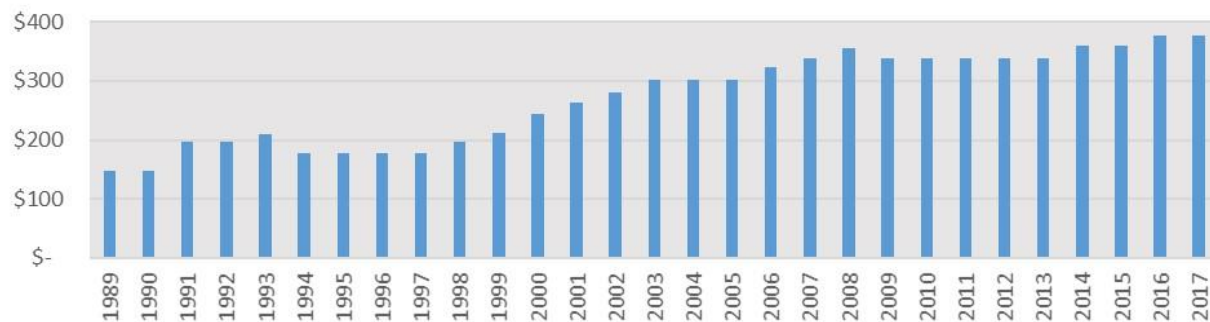
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$643,348	\$748,610	16.40%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$643,348	\$748,610	16.40%



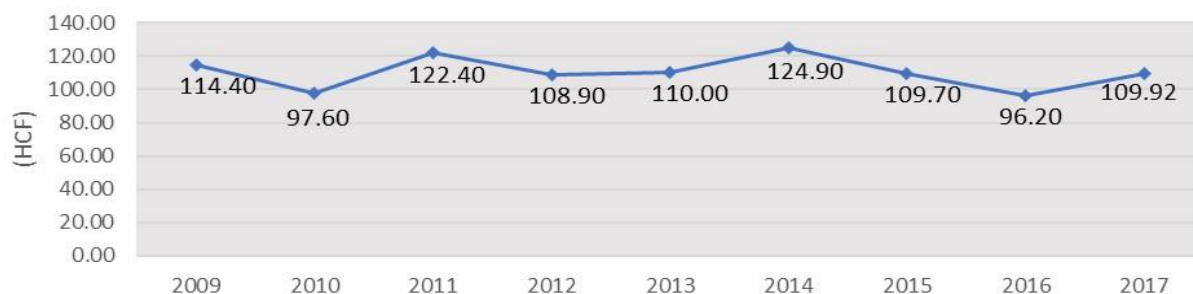
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Malden (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge (5/8" meter) includes 0 – 0.5 HCF: \$ 3.00/month  
 >0.5 – 8 HCF: \$ 4.43/HCF  
 >8 – 120 HCF \$ 9.88 "  
 >120 HCF \$13.36 "

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge (5/8" meter) includes 0 – 0.5 HCF: \$ 3.00/month  
 >0.5 – 8 HCF: \$ 5.43/HCF  
 >8 – 120 HCF \$ 10.56 "  
 >120 HCF \$12.14 "

Based on 100% of water usage.

Billing Frequency: Monthly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$662.40	1.10%
Sewer	\$774.72	0.00%
<b>Combined</b>	<b>\$1,437.12</b>	<b>0.50%</b>

### Annual Cost Based on Local, State & Federal Data

(68.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$303.01
Sewer	\$371.41
<b>Combined</b>	<b>\$674.42</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	No Response
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

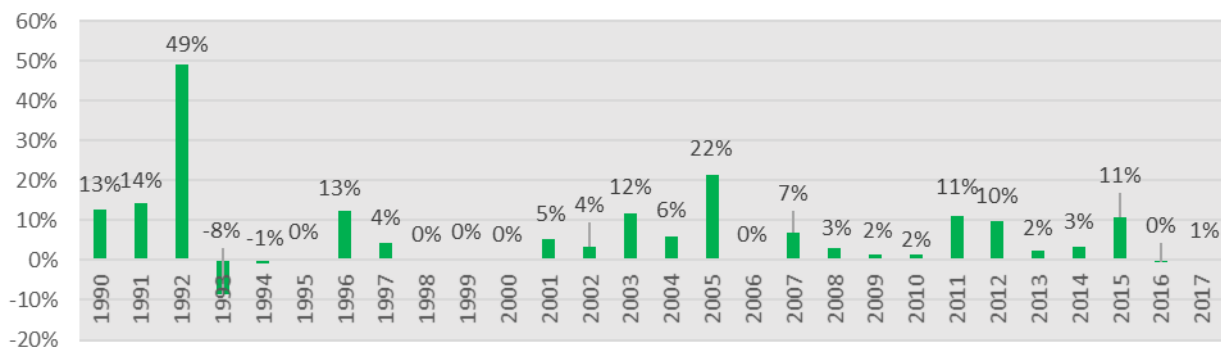
# Malden (W/S)

## FY 2018 MWRA Assessments

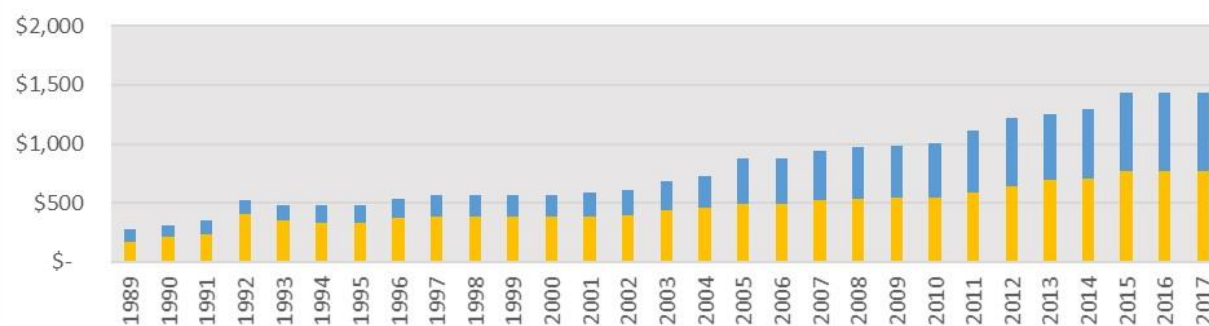
	FY17	FY18	% Change
<b>Water</b>	\$6,950,768	\$6,762,968	-2.70%
<b>Sewer</b>	\$12,941,073	\$13,307,655	2.80%
<b>Combined</b>	\$19,891,841	\$20,070,623	0.90%



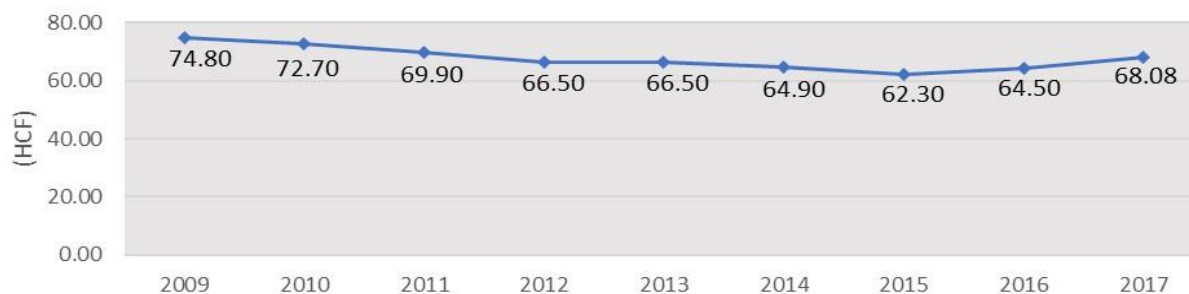
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Marblehead (W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Administrative Charge \$15.75/bill  
 0 – 30 HCF \$ 4.80/HCF  
 >30 HCF \$ 6.35 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Administrative Charge \$13.50/bill  
 0 – 30 HCF \$ 9.00/HCF  
 >30 HCF \$ 9.30 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$639.00	0.31%
Sewer	\$1,134.00	0.89%
<b>Combined</b>	<b>\$1,773.00</b>	<b>0.68%</b>

### Annual Cost Based on Local, State & Federal Data

(92.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$504.60
Sewer	\$882.00
<b>Combined</b>	<b>\$1,386.60</b>

- ♦ Marblehead is a member of the South Essex Sewerage District.
- ♦ Sewer deduct meters are utilized in Marblehead, reducing total sewerage bills on average by 20%.

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters?		Yes		Does this Community Offer Senior and/or Low Income Discounts?		No
Water System				Sewer System		
MWRA Charges as % of Total Community Water Expenses	50-75%			MWRA Charges as % of Total Community Sewer Expenses	50-75%	
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1			Miles of sewer pipeline replaced/rehabilitated in FY17	1-3 miles	
Water Capital Needs over Next Five Years	\$0 – 10 million			Sewer Capital Needs over Next Five Years	\$0 – 10 million	
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million			Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million	
Stormwater						
Current Funding Source of Stormwater-Related Costs:			Tax Levy (Drain Dept. Budget)			

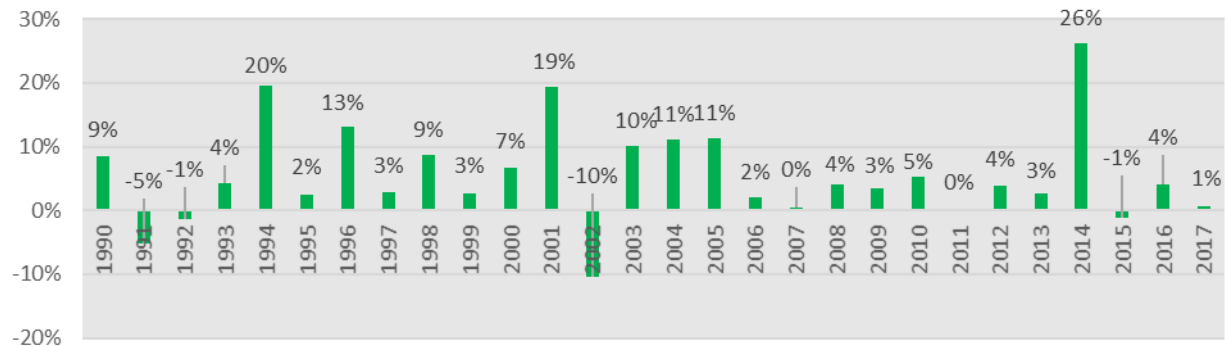


# Marblehead (W)

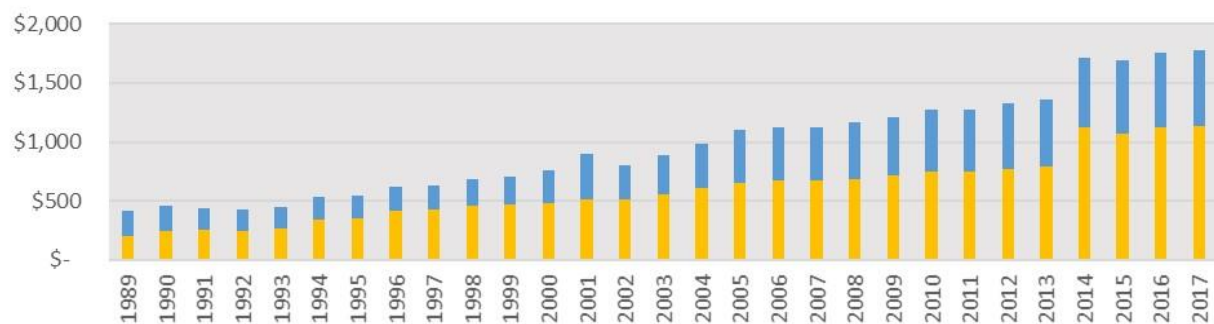
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$2,341,415	\$2,469,760	5.50%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$2,341,415	\$2,469,760	5.50%



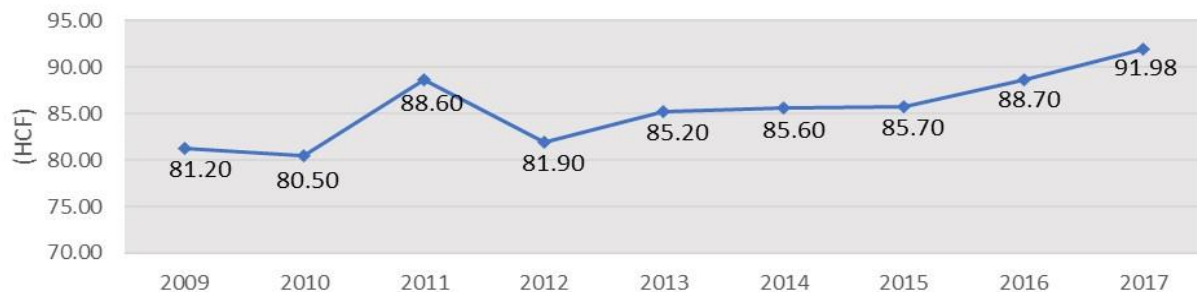
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Marlborough (partial W)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: General

In-City (All Units) \$7.10/HCF  
 Out-of-City (All Units) \$7.45 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: General

In-City (All Units) \$7.32/HCF  
 Out-of-City (All Units) \$7.68 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$852.00	0.00%
Sewer	\$878.40	0.00%
<b>Combined</b>	<b>\$1,730.40</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(59.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$420.32
Sewer	\$433.34
<b>Combined</b>	<b>\$853.66</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

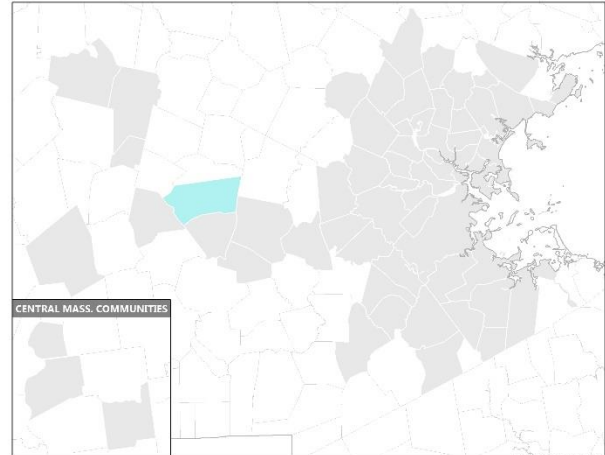
### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	No Response
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

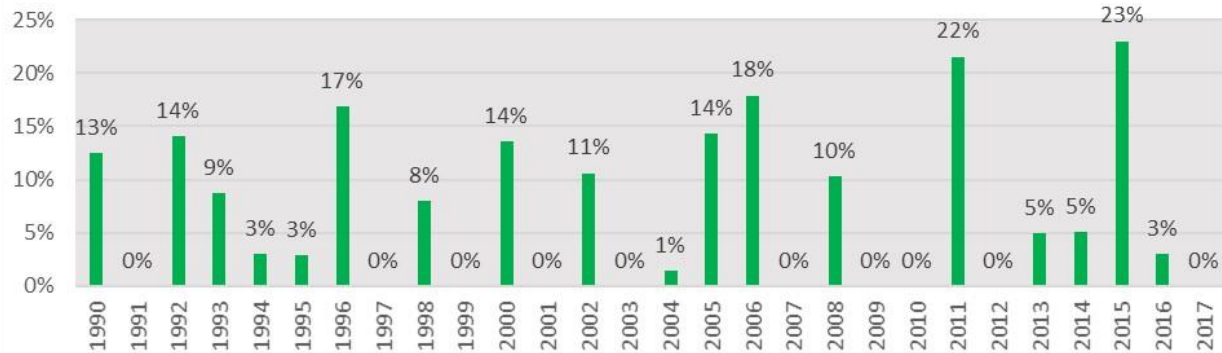


# Marlborough (partial W)

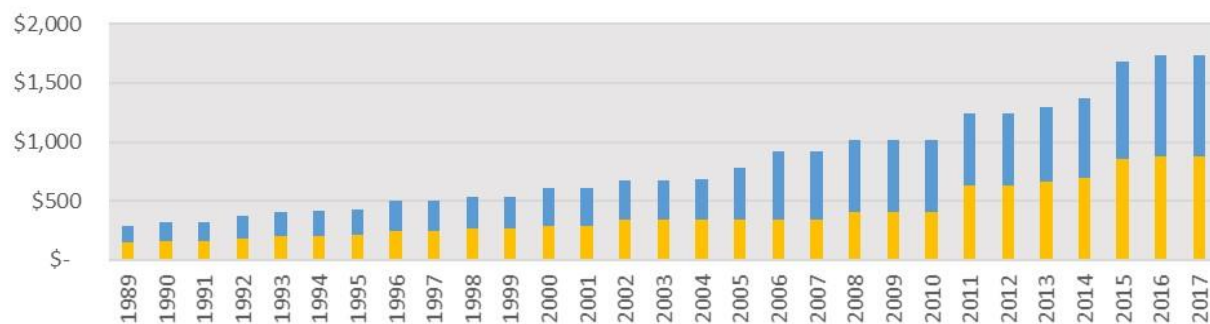
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$3,887,876	\$4,902,062	26.10%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$3,887,876	\$4,902,062	26.10%



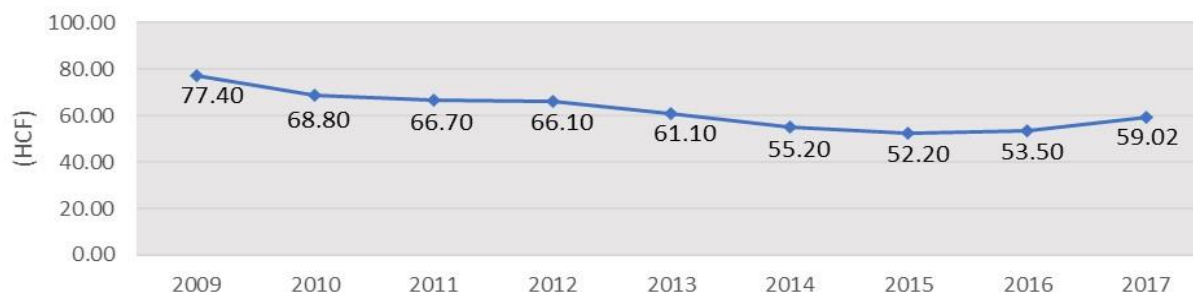
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Medford (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 8 HCF \$ 5.37/HCF  
 >8-16 HCF \$ 5.74 "  
 >16 HCF \$ 6.12 "

Billing Frequency: Bi-Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 8 HCF \$ 8.01/HCF  
 >8-16 HCF \$ 8.57 "  
 >16 HCF \$ 9.12 "

Based on 100% of water usage.

Billing Frequency: Bi-Monthly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$680.16	-11.52%
Sewer	\$1,014.72	1.03%
<b>Combined</b>	<b>\$1,694.88</b>	<b>-4.41%</b>

## Annual Cost Based on Local, State & Federal Data

(62.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$340.42
Sewer	\$507.89
<b>Combined</b>	<b>\$848.30</b>

## Commercial Water Rates:

All units \$ 5.74/HCF

## Commercial Sewer Rates:

All units \$ 8.57/HCF

## Additional 2017 Data by Community

Does this Community Use  
Second Meters? Yes

Does this Community Offer  
Senior and/or Low Income  
Discounts? Yes, Senior

### Water System

### Sewer System

MWRA Charges as % of Total  
Community Water Expenses 50-75%

MWRA Charges as % of Total  
Community Sewer Expenses Over 75%

Miles of water pipeline  
replaced/rehabilitated in FY17 Less than 1

Miles of sewer pipeline  
replaced/rehabilitated in FY17 Less than 1

Water Capital Needs over Next  
Five Years \$0 – 10 million

Sewer Capital Needs over Next  
Five Years \$0 – 10 million

Anticipated Water Capital  
Spending over Next Five Years \$1 – 5 million

Anticipated Sewer Capital  
Spending over Next Five Years \$1 – 5 million

## Stormwater

Current Funding Source of  
Stormwater-Related Costs:

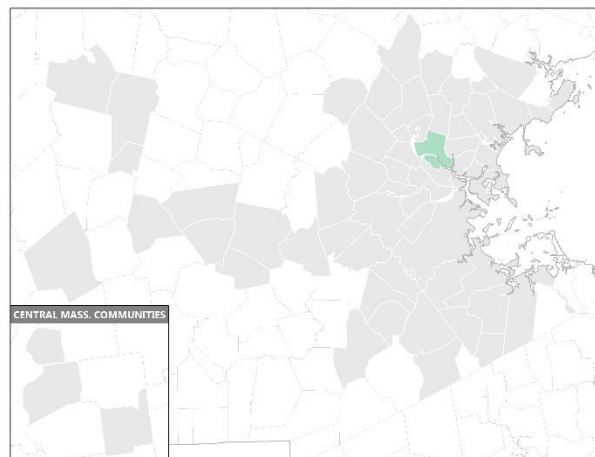
Operating Budget / Tax Levy

- Stormwater is funded through Medford's annual operating budget and, less frequently, via special assessment. The operating budget is typically the largest source of funding.
- Tax exempt properties and residential units with 5 units or more are billed at the commercial and industrial flat rate of \$5.74/HCF for water and \$8.57/HCF for sewer.
- 2<sup>nd</sup> meter (irrigation) rate is \$6.31/HCF for all residential units with city irrigation meter.

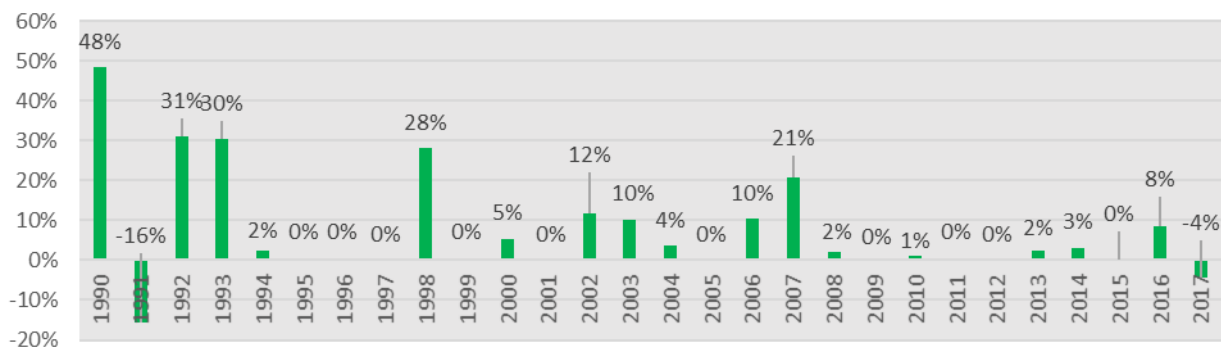
# Medford (W/S)

## FY 2018 MWRA Assessments

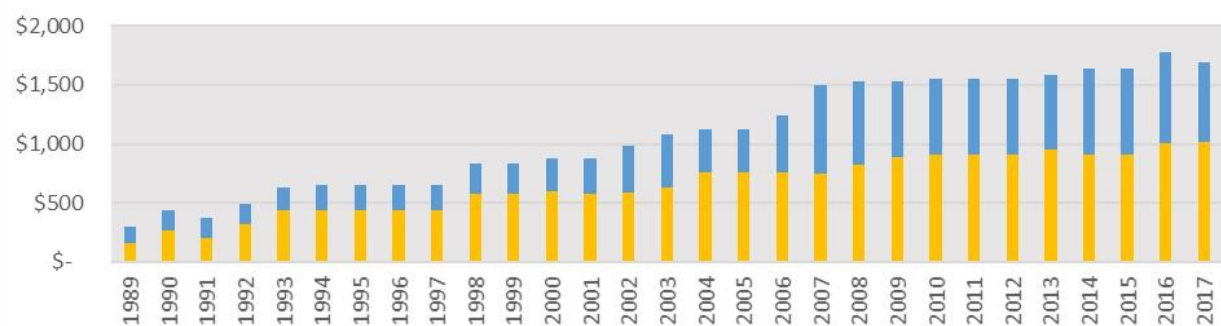
	FY17	FY18	% Change
<b>Water</b>	\$6,432,219	\$6,383,291	-0.80%
<b>Sewer</b>	\$11,878,789	\$12,118,702	2.00%
<b>Combined</b>	\$18,311,008	\$18,501,993	1.00%



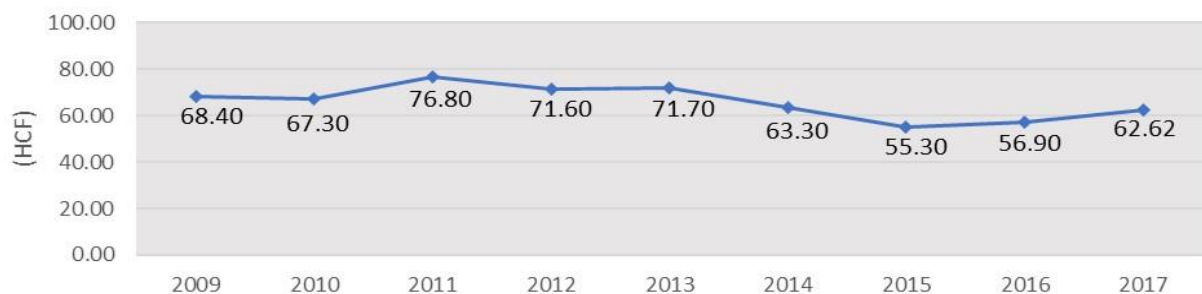
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Melrose (W/S)

## Residential Water Rates:

Last adjusted: October 2017  
 Next adjustment scheduled: October 2018  
 Fund: Enterprise

Base Fee (up to 1" meter) \$16.60  
 0 – 20 HCF \$ 6.34/HCF  
 >20 HCF \$ 8.62 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: October 2017  
 Next adjustment scheduled: October 2018  
 Fund: Enterprise

Base Fee (up to 1" meter) \$14.25  
 0 – 20 HCF \$ 11.62/HCF  
 >20 HCF \$ 14.64 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$918.40	0.00%
Sewer	\$1,396.52	1.42%
<b>Combined</b>	<b>\$2,314.92</b>	<b>0.85%</b>

### Annual Cost Based on Local, State & Federal Data

(53.5 HCF – See Appendix C  
for Data & Calc.)

Water	\$406.22
Sewer	\$679.83
<b>Combined</b>	<b>\$1,086.06</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Rate	

# Melrose (W/S)

## FY 2018 MWRA Assessments

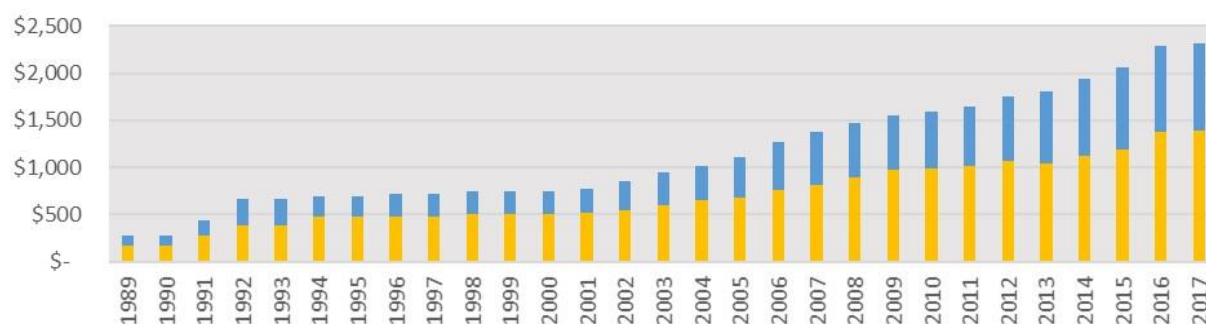
	FY17	FY18	% Change
<b>Water</b>	\$2,915,635	\$2,854,570	-2.10%
<b>Sewer</b>	\$6,251,952	\$6,387,893	2.20%
<b>Combined</b>	\$9,167,587	\$9,242,463	0.80%



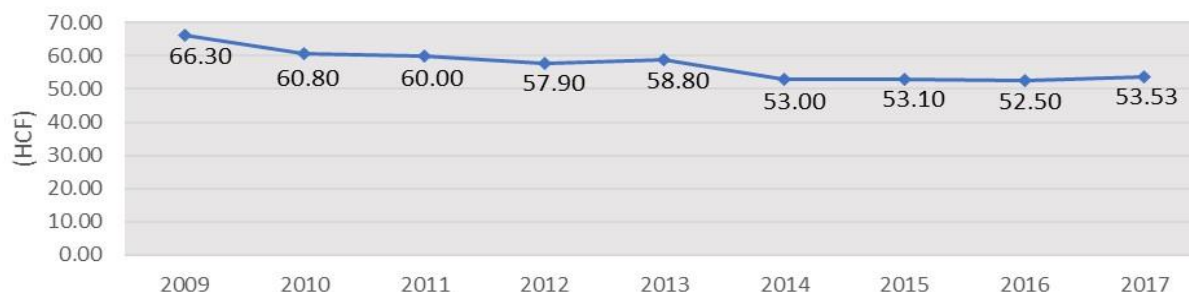
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Milton (W/S)

## Residential Water Rates:

Last adjusted: August 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge (includes 0 – 6 HCF) \$32.58/bill  
 >6 – 30 HCF \$ 6.57 /HCF  
 >30 – 60 HCF \$ 7.24 "  
 >60 HCF \$ 7.69 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: August 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge (includes 0 – 6 HCF) \$40.26/bill  
 >6 – 30 HCF \$12.65/HCF  
 >30 – 60 HCF \$13.94 "  
 >60 HCF \$14.88 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$761.04	0.00%
Sewer	\$1,375.44	0.00%
<b>Combined</b>	<b>\$2,136.48</b>	<b>0.00%</b>

## Annual Cost Based on Local, State & Federal Data

(85.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$692.71
Sewer	\$1,243.88
<b>Combined</b>	<b>\$1,936.59</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

## Additional 2017 Data by Community

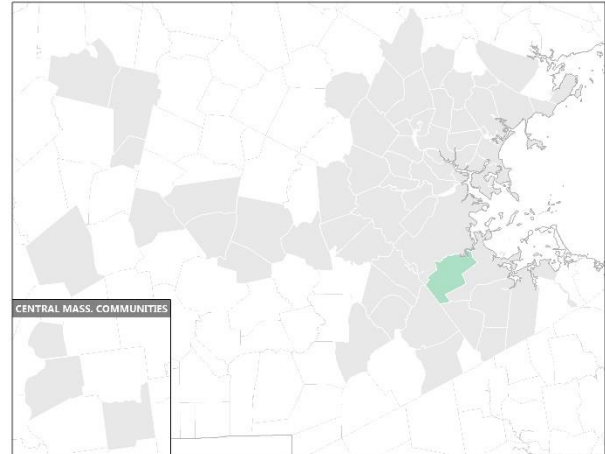
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY17	3 – 6
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – \$5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1– \$5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	



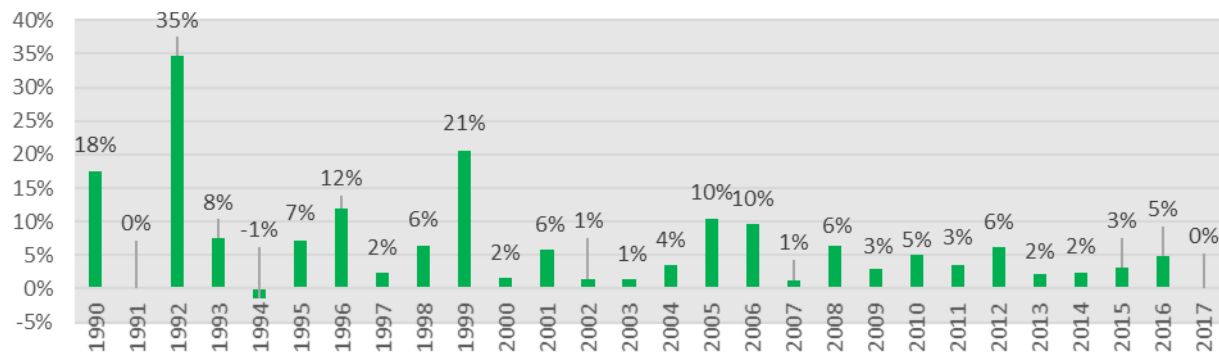
# Milton (W/S)

## FY 2018 MWRA Assessments

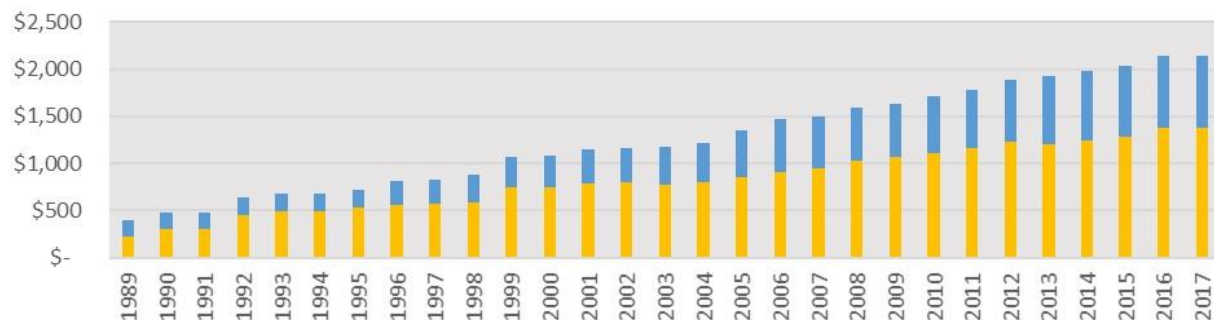
	FY17	FY18	% Change
<b>Water</b>	\$3,360,396	\$3,495,641	4.00%
<b>Sewer</b>	\$5,362,055	\$5,450,348	1.60%
<b>Combined</b>	\$8,722,451	\$8,945,989	2.60%



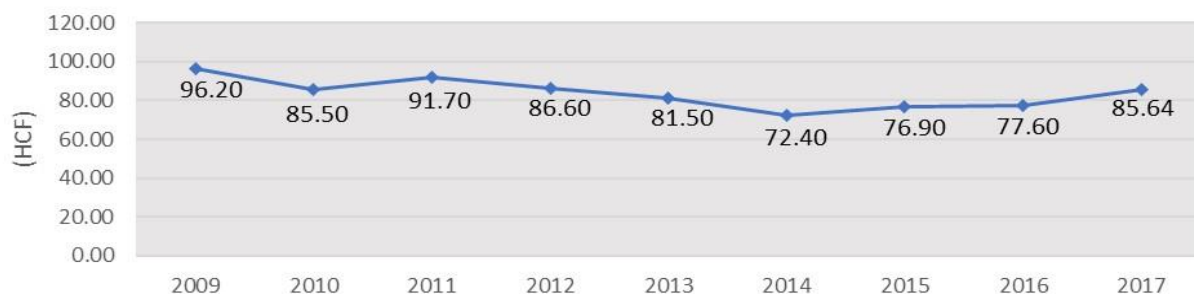
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Nahant (W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 6.95 /HCF

Billing Frequency: Tri-Annually

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 8.89 /HCF

Based on 100% of water usage.  
 Billing Frequency: Tri-Annually

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$890.40	6.76%
Sewer	\$1,065.60	-0.11%
<b>Combined</b>	<b>\$1,956.00</b>	<b>2.90%</b>

### Annual Cost Based on Local, State & Federal Data

(99.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$734.58
Sewer	\$879.12
<b>Combined</b>	<b>\$1,613.70</b>

- ♦ Nahant receives wholesale wastewater services from the Lynn Water and Sewer Commission.
- ♦ Nahant utilizes the debt service exclusion as permitted under General Law 59 Section 21C(n)

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Both	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand – \$1 million	Anticipated Sewer Capital Spending over Next Five Years	\$100 thousand – \$1 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	



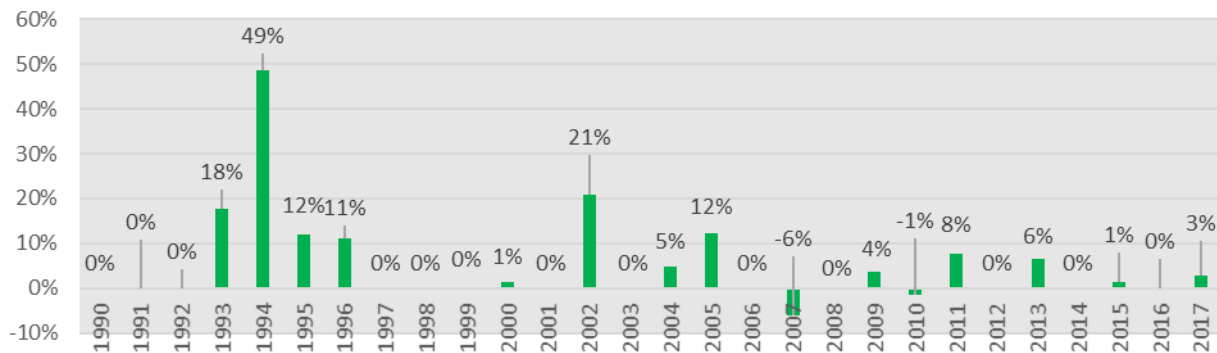
# Nahant (W)

## FY 2018 MWRA Assessments

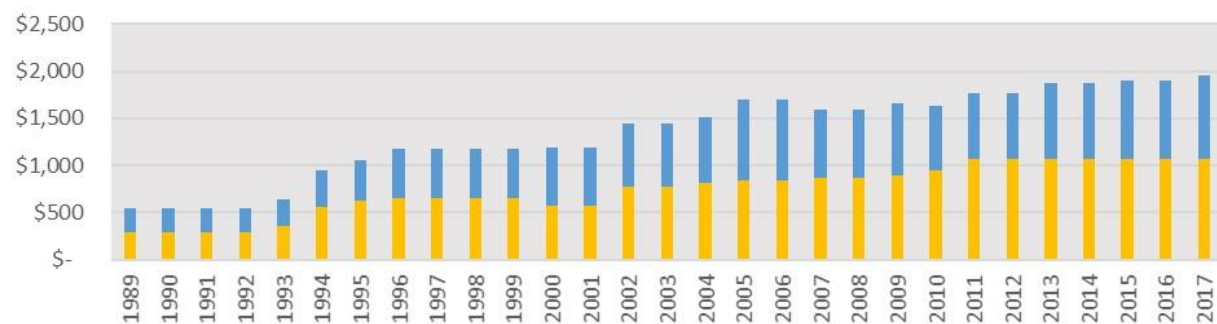
	FY17	FY18	% Change
<b>Water</b>	\$476,532	\$537,696	12.80%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$476,532	\$537,696	12.80%



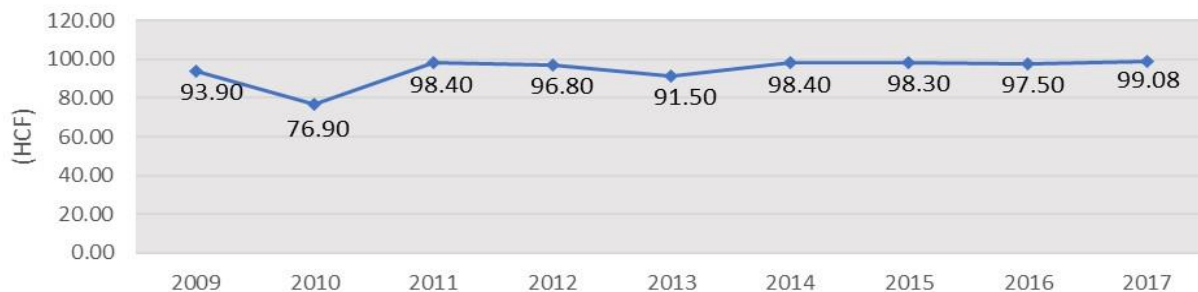
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Natick (S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 10 HCF \$1.77/HCF  
 >10 – 20 HCF \$2.71 "  
 >20 – 40 HCF \$4.02 "  
 >40 HCF \$10.10 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 10 HCF \$1.77/HCF  
 >10 – 20 HCF \$2.71 "  
 >20 – 40 HCF \$4.02 "  
 >40 HCF \$10.10 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$340.00	-2.41%
Sewer	\$1,122.40	3.54%
<b>Combined</b>	<b>\$1,462.40</b>	<b>2.09%</b>

### Annual Cost Based on Local, State & Federal Data

(72.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$159.69
Sewer	\$482.34
<b>Combined</b>	<b>\$642.03</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

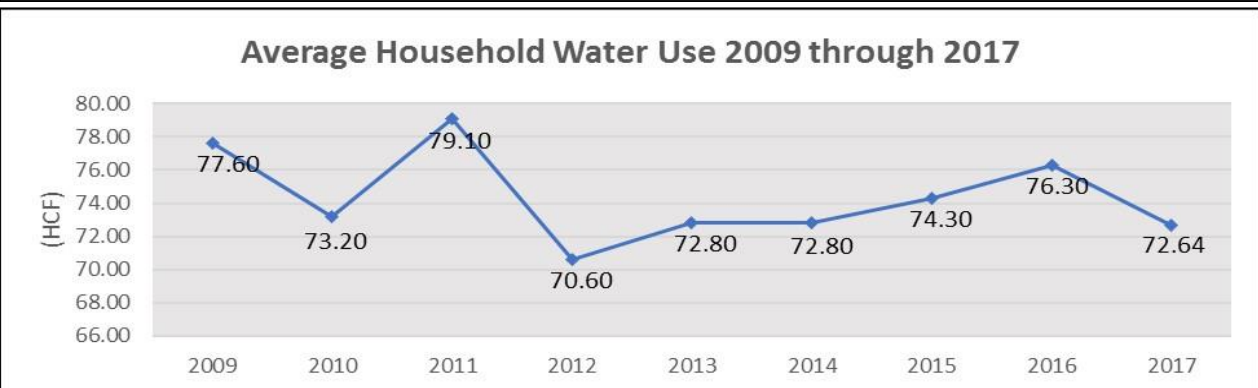
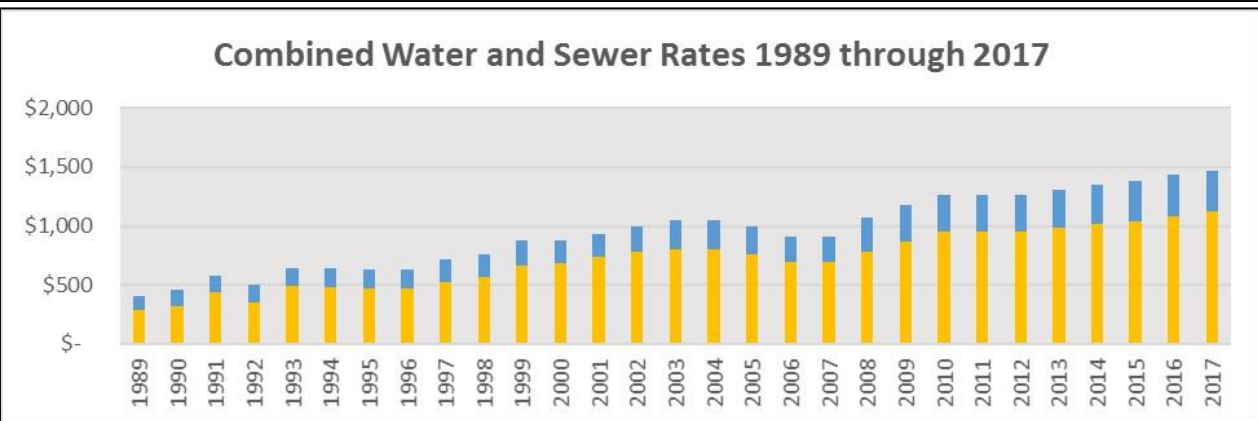
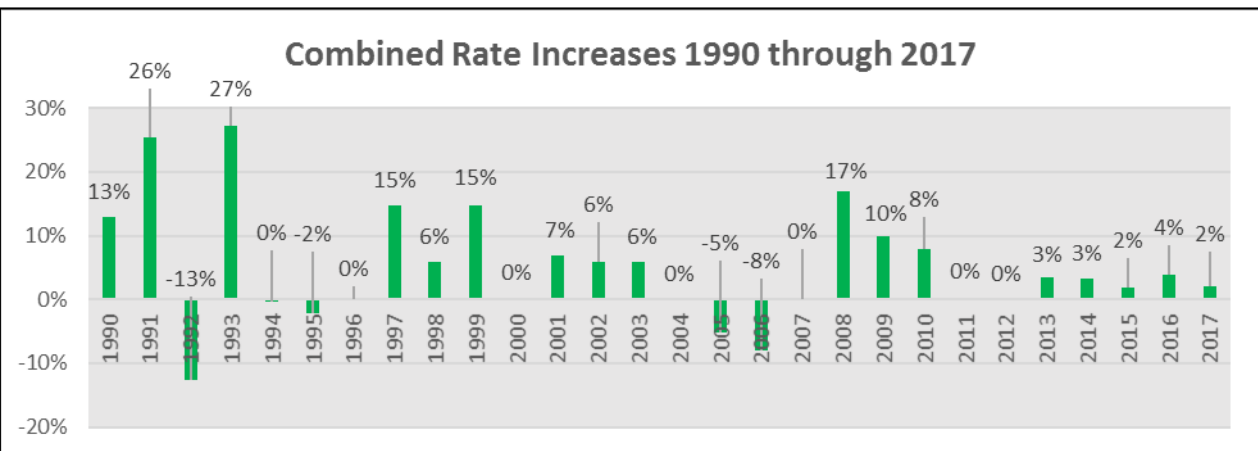
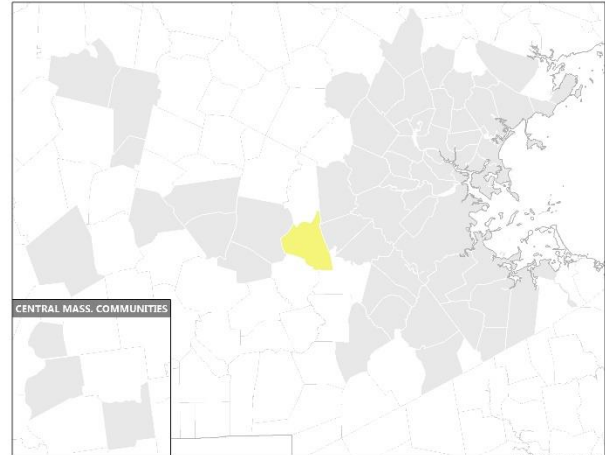
Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	No Response
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Natick (S)

<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$5,756,705	\$5,924,062	2.90%
<b>Combined</b>	\$5,756,705	\$5,924,062	2.90%



# Needham (S/partial W)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Basic Service Fee: \$15.00  
 0 – 6 HCF \$ 3.10/HCF  
 >6 – 27 HCF \$ 3.40 "  
 >27 – 42 HCF \$ 4.30 "  
 >42 HCF \$ 5.10 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Basic Service Fee: \$9.00  
 0 – 6 HCF \$ 8.60/HCF  
 >6 – 27 HCF \$ 9.45 "  
 >27 – 42 HCF \$ 10.20 "  
 >42 HCF \$ 11.15 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$471.60	0.00%
Sewer	\$1,182.24	2.04%
<b>Combined</b>	<b>\$1,653.84</b>	<b>1.45%</b>

## Annual Cost Based on Local, State & Federal Data

(88.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$354.72
Sewer	\$872.35
<b>Combined</b>	<b>\$1,227.07</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

## Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5-10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

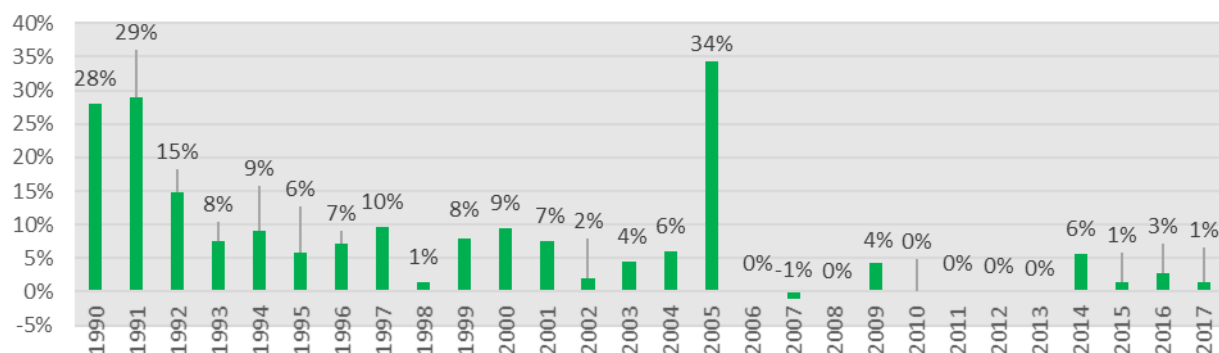
# Needham (S/partial W)

## FY 2018 MWRA Assessments

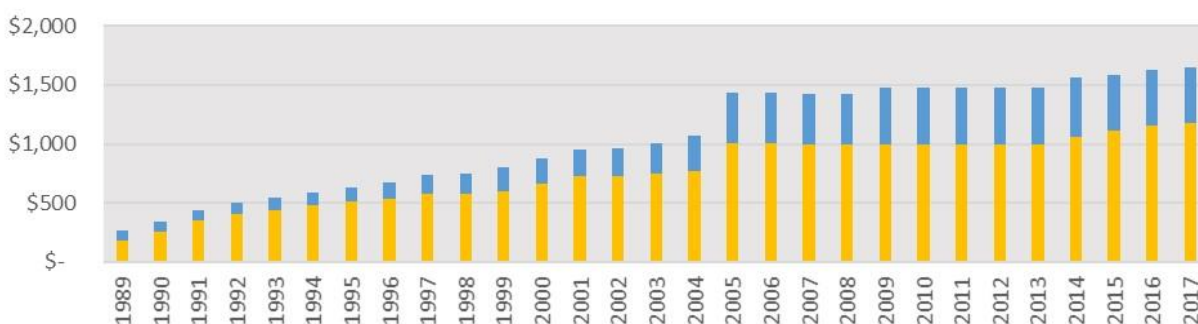
	FY17	FY18	% Change
<b>Water</b>	\$1,039,372	\$1,109,794	6.80%
<b>Sewer</b>	\$5,683,915	\$5,889,796	3.60%
<b>Combined</b>	\$6,723,287	\$6,999,590	4.10%



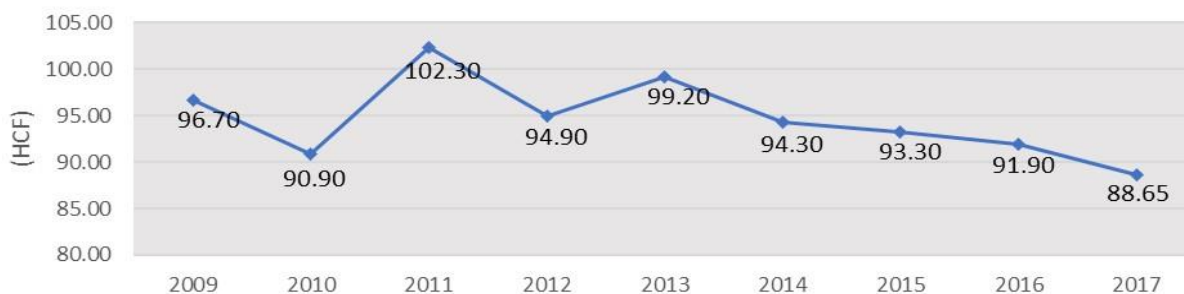
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Newton (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 10 HCF	\$6.60/HCF
>10 – 25 HCF	\$7.60 "
>25 – 60 HCF	\$8.74 "
>60 HCF	\$10.90 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 10 HCF	\$9.85/HCF
>10 – 25 HCF	\$11.45 "
>25 – 60 HCF	\$12.30 "
>60 HCF	\$14.15 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$894.80	2.61%
Sewer	\$1,327.00	4.49%
<b>Combined</b>	<b>\$2,221.80</b>	<b>3.73%</b>

## Annual Cost Based on Local, State & Federal Data

(61.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$425.12
Sewer	\$636.74
<b>Combined</b>	<b>\$1,061.86</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

## Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY17	Over 6
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	

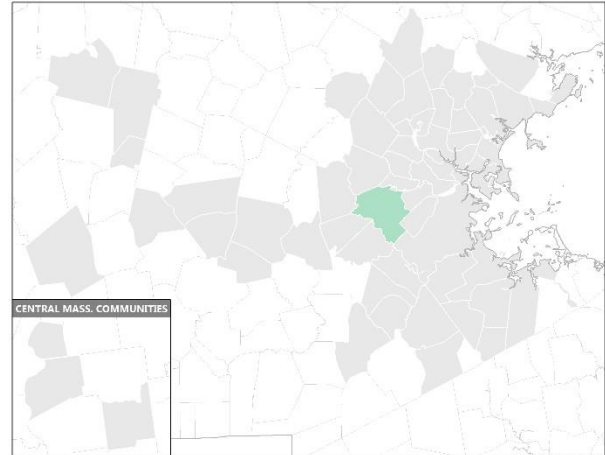
Newton is 1 of 3 MWRA communities that has established a special assessment to fund stormwater-related costs. The stormwater fee is \$18.75 per quarter; \$75 per year. For more information, see [Appendix G](#).



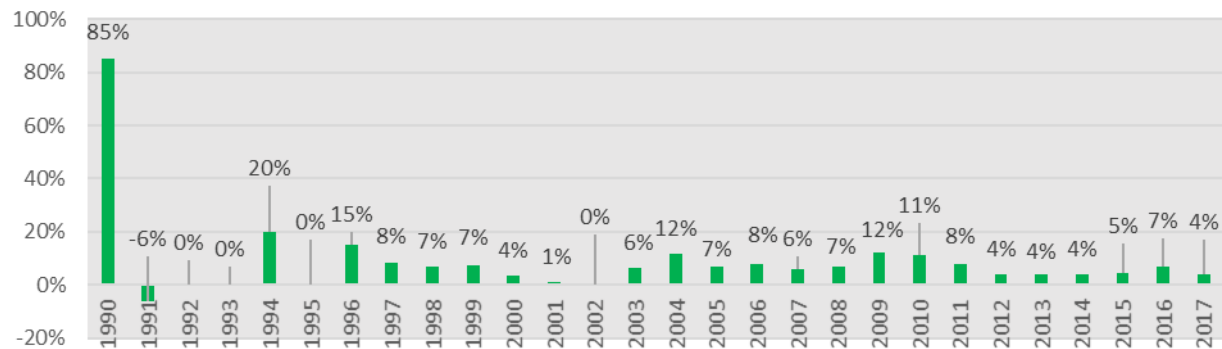
# Newton (W/S)

## FY 2018 MWRA Assessments

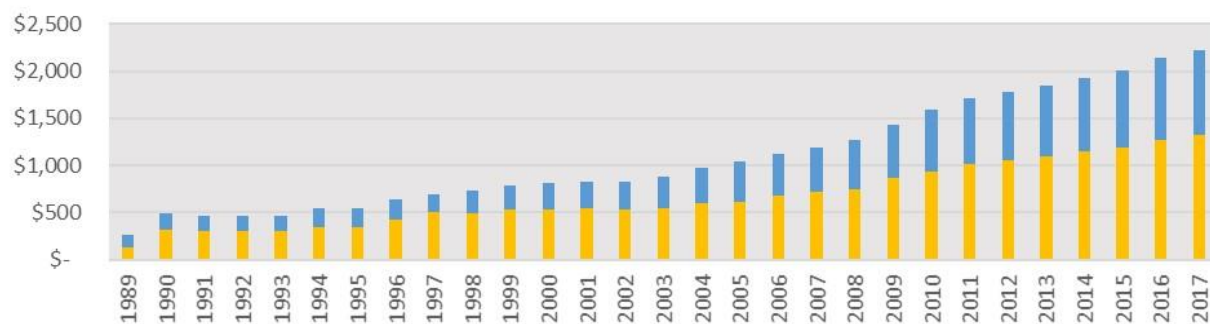
	FY17	FY18	% Change
<b>Water</b>	\$12,950,552	\$12,891,560	-0.50%
<b>Sewer</b>	\$20,518,241	\$21,760,724	6.10%
<b>Combined</b>	\$33,468,793	\$34,652,284	3.50%



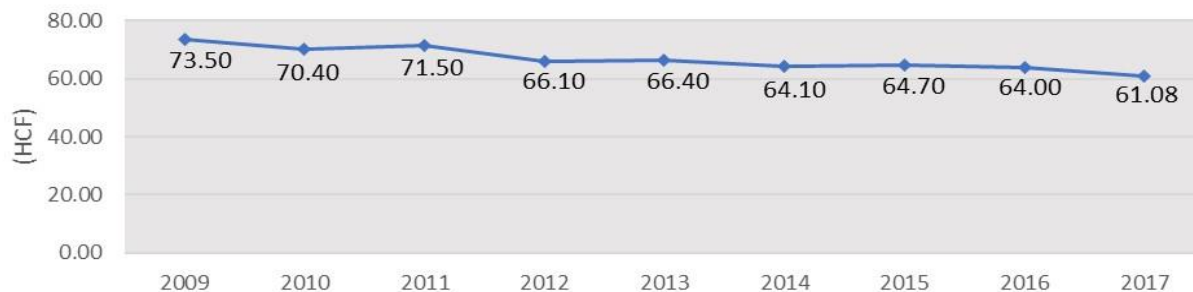
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Northborough (partial W)

## Residential Water Rates:

Last adjusted:	November 2017
Next adjustment scheduled:	Unknown
Fund:	Enterprise
Base charge	\$10.00/bill
0 – 20 HCF	\$ 4.490/HCF
>20 – 60 HCF	\$ 5.382 "
>60 HCF	\$ 6.632 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted:	November 2017
Next adjustment scheduled:	Unknown
Fund:	Enterprise
0 – 20 HCF	\$ 10.800/HCF
>20 – 60 HCF	\$ 11.216 "
>60 HCF	\$ 11.717 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$614.48	4.67%
Sewer	\$1,312.64	20.00%
<b>Combined</b>	<b>\$1,927.12</b>	<b>14.65%</b>

## Annual Cost Based on Local, State & Federal Data

(58.7 HCF – See Appendix C  
for Data & Calc.)

Water	\$304.01
Sewer	\$635.04
<b>Combined</b>	<b>\$939.05</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

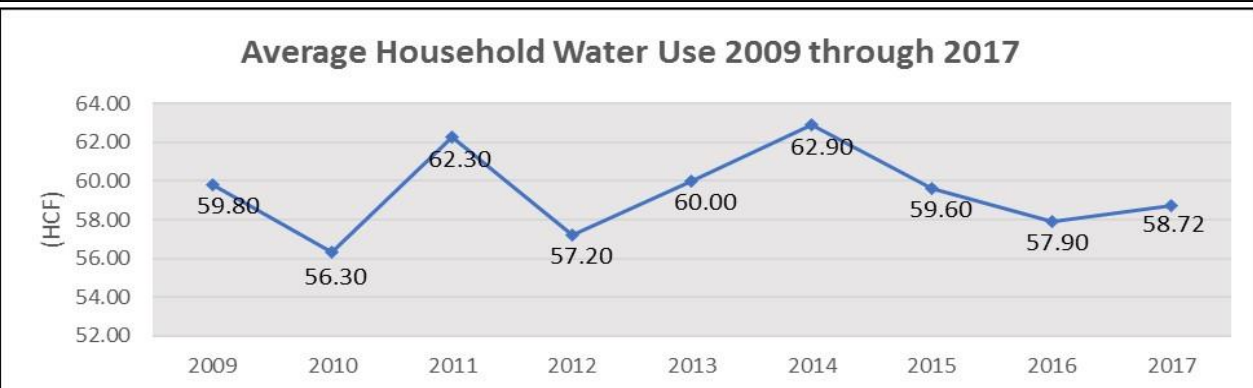
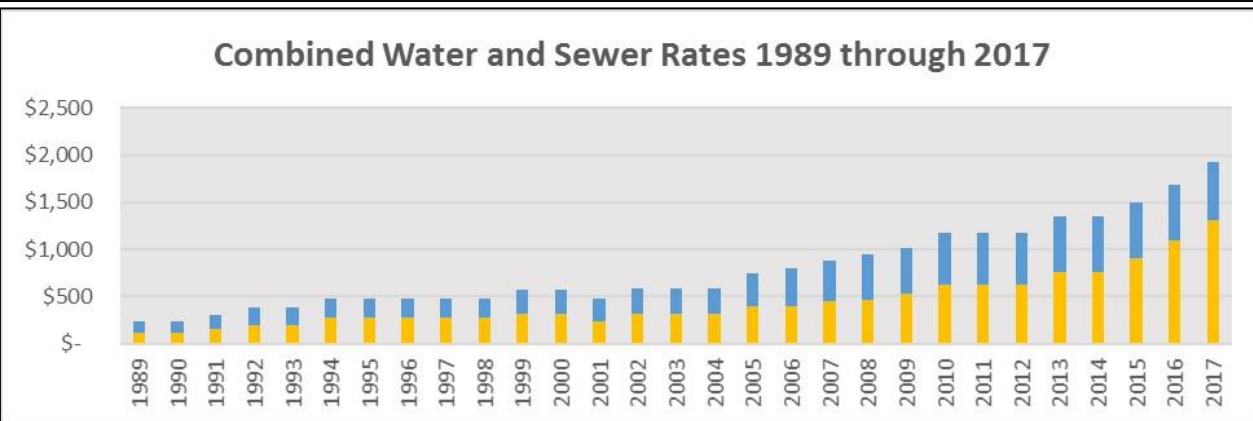
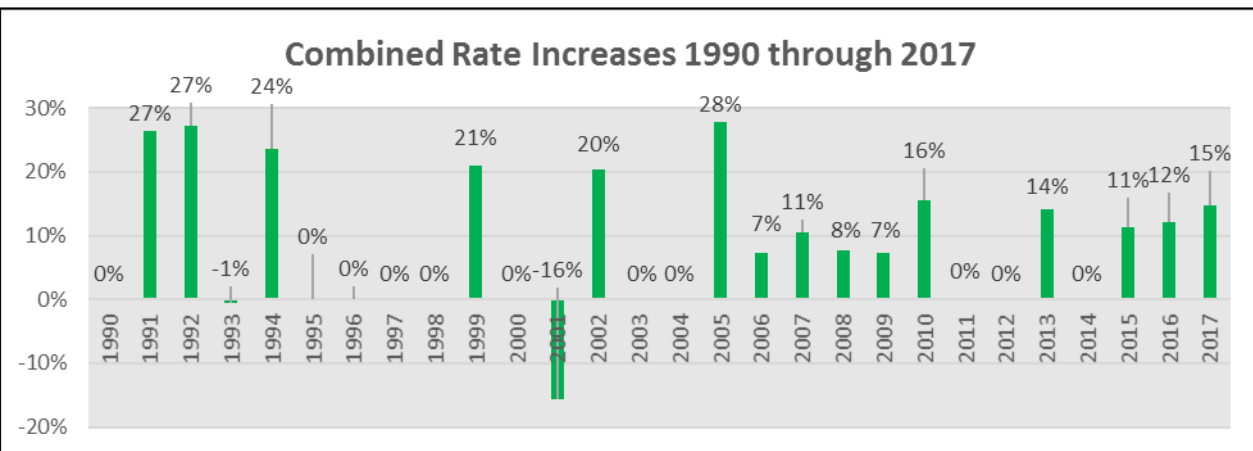
## Additional 2017 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income Discounts?
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand – \$1 million	Anticipated Sewer Capital Spending over Next Five Years	\$100 thousand – \$1 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	



# Northborough (partial W)

<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$1,135,772	\$1,240,294	9.20%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$1,135,772	\$1,240,294	9.20%



# Norwood (W/S)

## Residential Water Rates:

Last adjusted: June 2016  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

Meter charge (5/8") \$2.69/month  
 0 – 5 HCF \$3.87/HCF  
 >5 HCF \$5.72 "

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: June 2016  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

0 – 3 HCF \$7.95/HCF  
 >3 HCF \$15.35 "

Based on 60% of water usage.

Billing Frequency: Monthly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$607.68	0.00%
Sewer	\$838.80	0.00%
<b>Combined</b>	<b>\$1,446.48</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(65.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$291.94
Sewer	\$359.88
<b>Combined</b>	<b>\$651.82</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

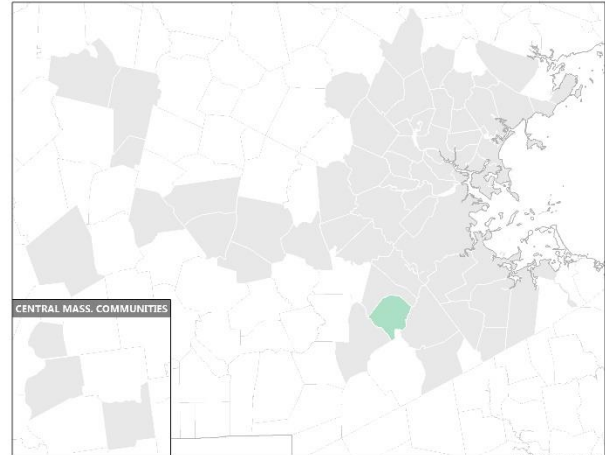
### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	Over 75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	\$0 - 10 million	Sewer Capital Needs over Next Five Years	\$0 - 10 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand – \$1 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Norwood (W/S)

## FY 2018 MWRA Assessments

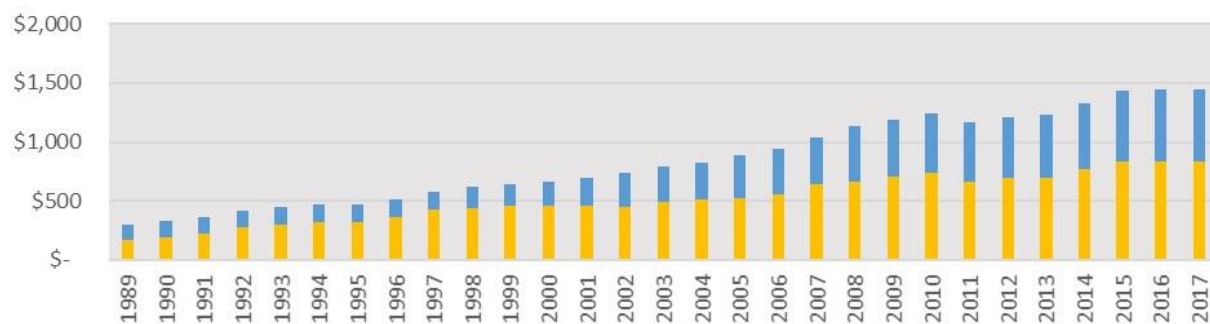
	FY17	FY18	% Change
<b>Water</b>	\$3,652,867	\$3,703,392	1.40%
<b>Sewer</b>	\$7,023,166	\$7,436,847	5.90%
<b>Combined</b>	\$10,676,033	\$11,140,239	4.30%



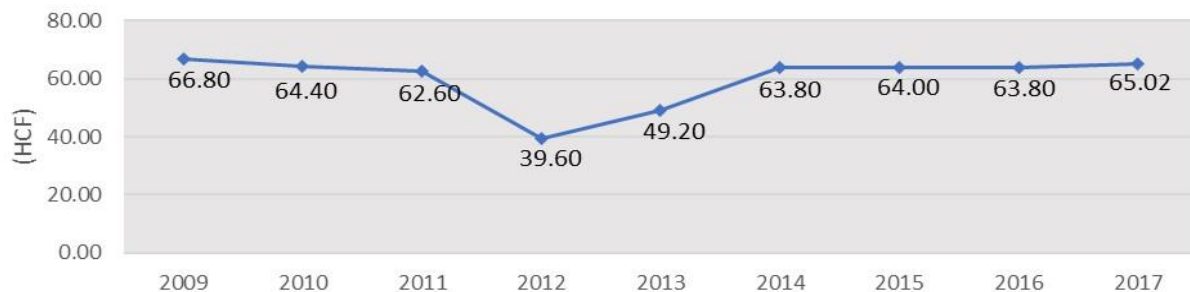
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Peabody (partial W)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: General

0 – 15 HCF \$2.69/HCF  
 >15 – 30 HCF \$2.93 "  
 >30 HCF \$3.20 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: General

0 – 15 HCF \$3.58/HCF  
 >15 HCF \$3.95 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$337.20	10.20%
Sewer	\$451.80	10.25%
<b>Combined</b>	<b>\$789.00</b>	<b>10.23%</b>

## Annual Cost Based on Local, State & Federal Data

(66.7 HCF – See Appendix C  
for Data & Calc.)

Water	\$181.32
Sewer	\$241.66
<b>Combined</b>	<b>\$422.98</b>

- ♦ Peabody receives wholesale wastewater service from the South Essex Sewerage District.

## Commercial Water Rates:

0-15 HCF \$2.90/HCF  
 >15-150 HCF \$ 3.16 "  
 >150 HCF \$ 3.44 "

## Commercial Sewer Rates:

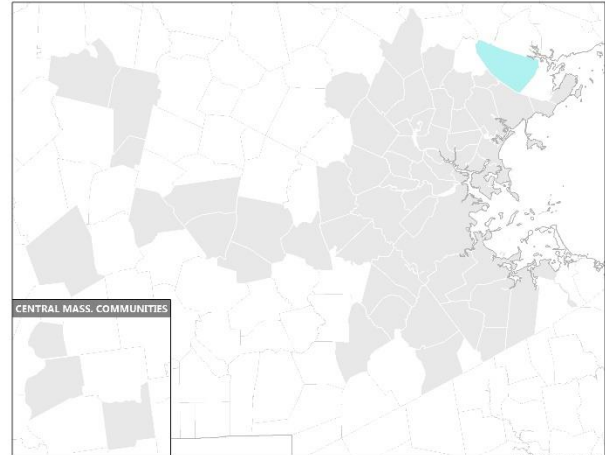
0-15 HCF \$3.75/HCF  
 >15 HCF \$4.13 "

## Additional 2017 Data by Community

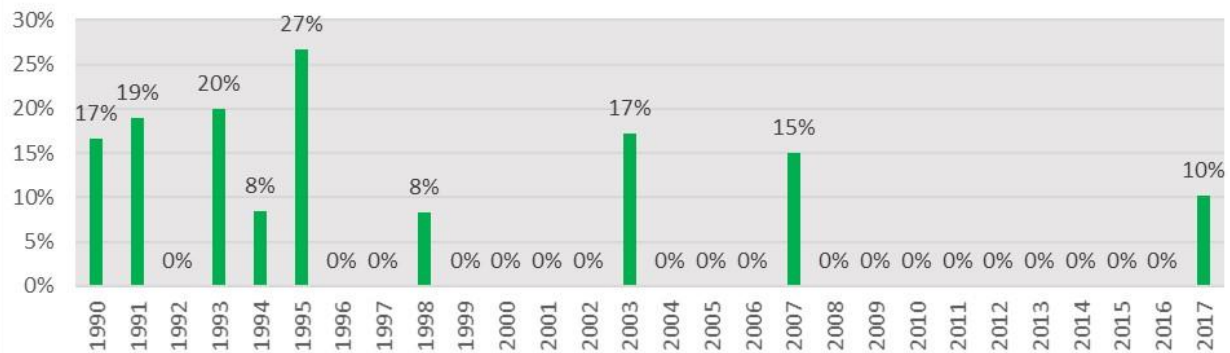
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$5 - 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5 - 10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Peabody (partial W)

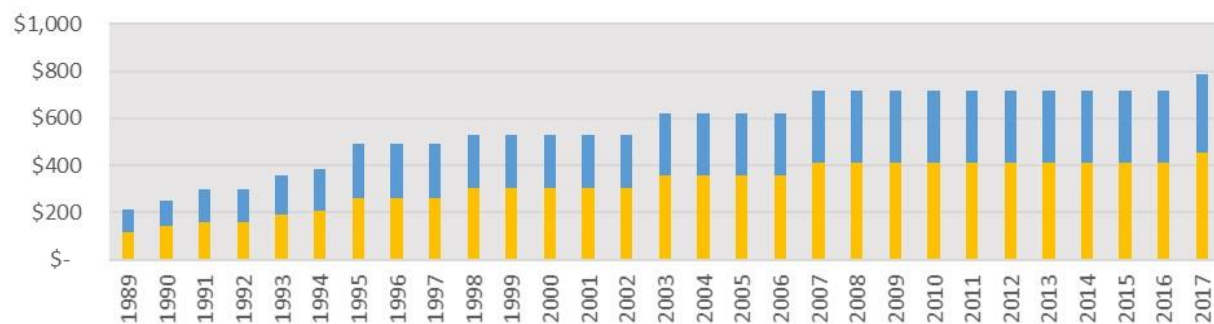
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$1,507,269	\$1,939,097	28.60%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$1,507,269	\$1,939,097	28.60%



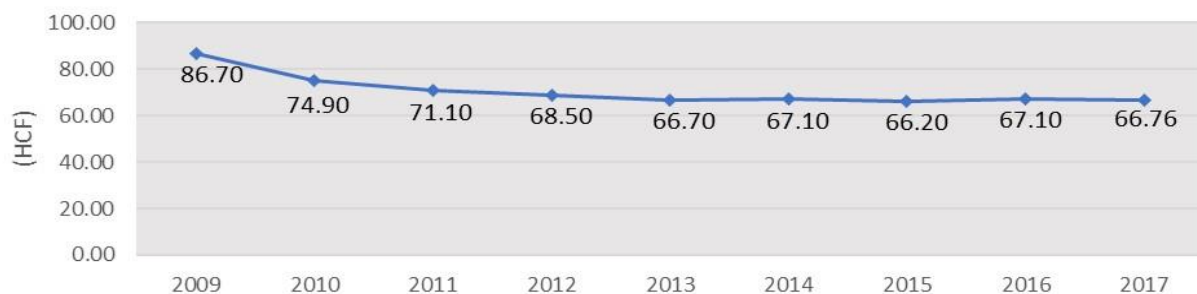
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Quincy (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$6.47/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$13.95/HCF

Based on 70% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$776.40	2.86%
Sewer	\$1,171.80	1.90%
<b>Combined</b>	<b>\$1,948.20</b>	<b>2.28%</b>

### Annual Cost Based on Local, State & Federal Data

(48.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$310.56
Sewer	\$468.72
<b>Combined</b>	<b>\$779.28</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

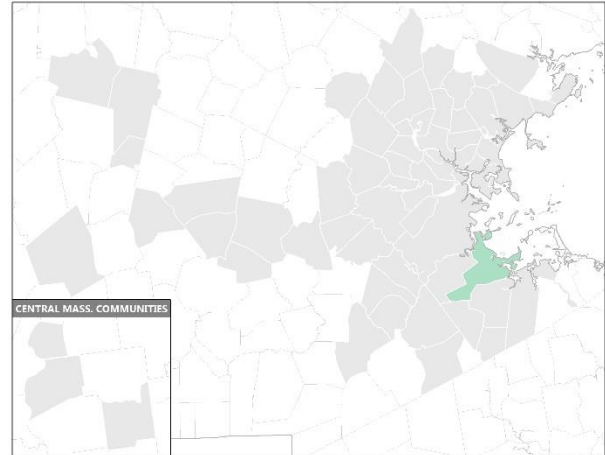
### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Low Income Discounts?	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY17	3 – 6
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5 – 10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

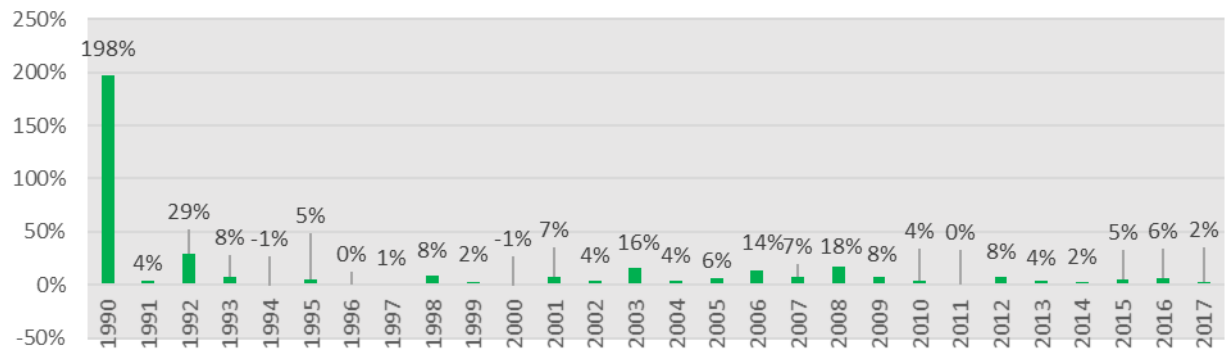


# Quincy (W/S)

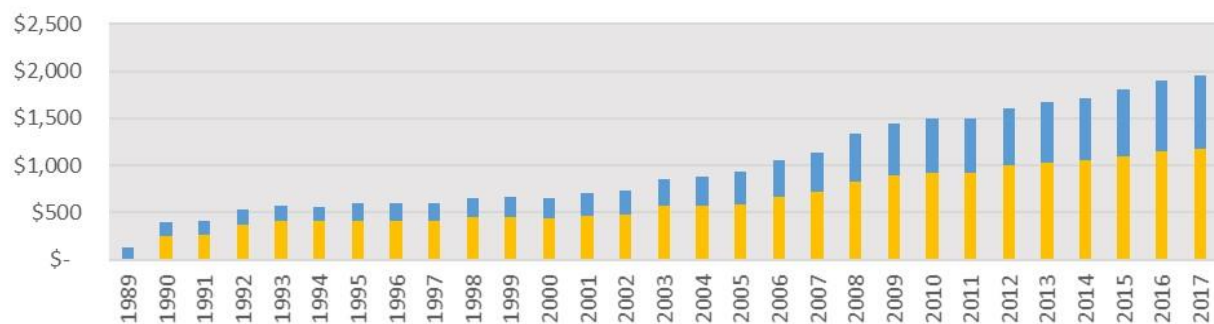
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$11,776,311	\$12,199,555	3.60%
<b>Sewer</b>	\$19,971,978	\$20,574,282	3.00%
<b>Combined</b>	\$31,748,289	\$32,773,837	3.20%



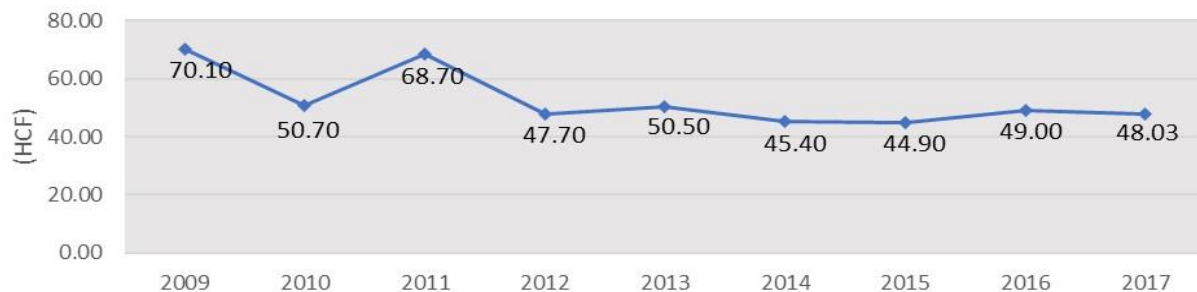
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Randolph (S)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge: \$25.00  
 0 – 25 HCF \$ 4.05/HCF  
 >25 HCF \$ 5.14 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge: \$12.50  
 0 – 25 HCF \$ 6.70/HCF  
 >25 HCF \$ 11.52 "

Based on 100% of water usage.  
 Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$607.80	0.00%
Sewer	\$950.40	0.00%
<b>Combined</b>	<b>\$1,558.20</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(58.8 HCF – See Appendix C  
for Data & Calc.)

Water	\$338.14
Sewer	\$445.14
<b>Combined</b>	<b>\$783.28</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

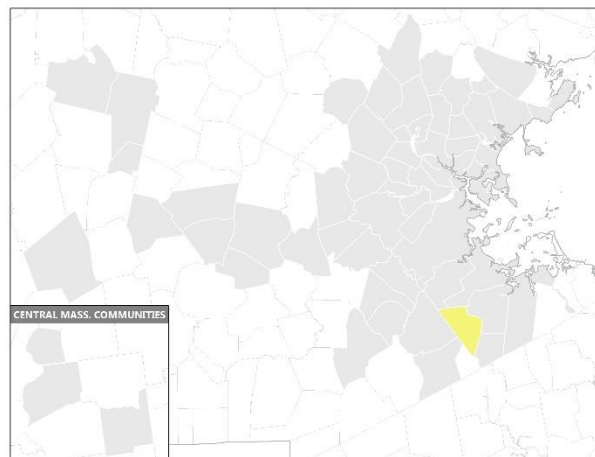
### Additional 2017 Data by Community

Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$20 – 50 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Randolph (S)

## FY 2018 MWRA Assessments

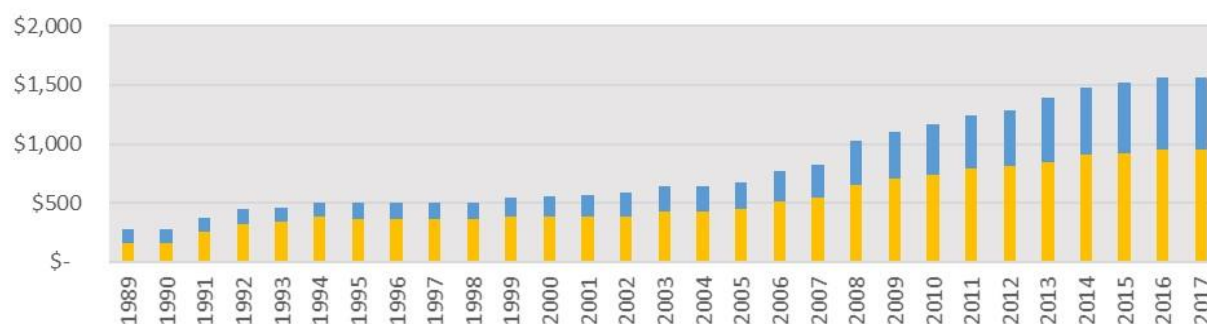
	FY17	FY18	% Change
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$6,272,186	\$6,339,800	1.10%
<b>Combined</b>	\$6,272,186	\$6,339,800	1.10%



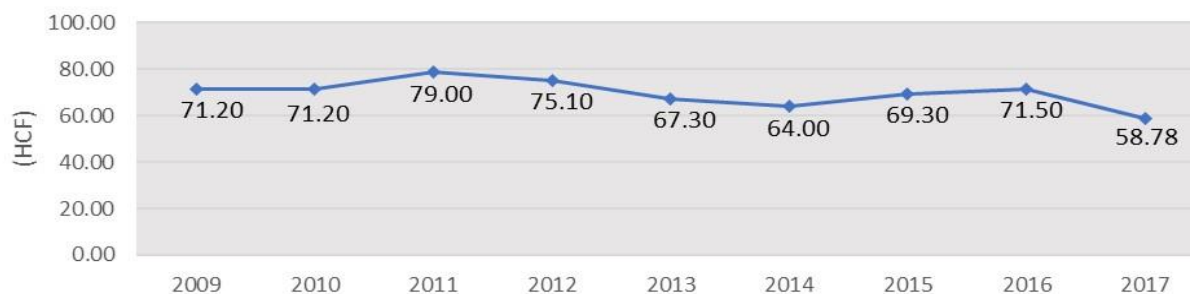
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Reading (W/S)

## Residential Water Rates:

Last adjusted: August 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill: \$17.66  
 All units \$ 10.00/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: August 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill: \$19.52  
 All units \$ 10.17/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$1,200.00	3.73%
Sewer	\$1,220.40	2.94%
<b>Combined</b>	<b>\$2,420.40</b>	<b>3.33%</b>

### Annual Cost Based on Local, State & Federal Data

(62.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$624.00
Sewer	\$634.61
<b>Combined</b>	<b>\$1,258.61</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

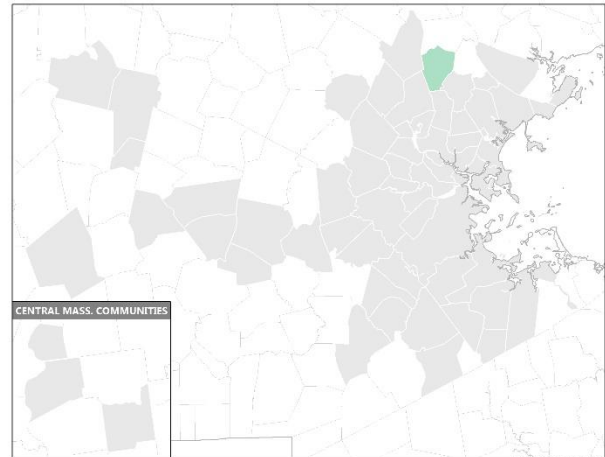
Same as residential

### Additional 2017 Data by Community

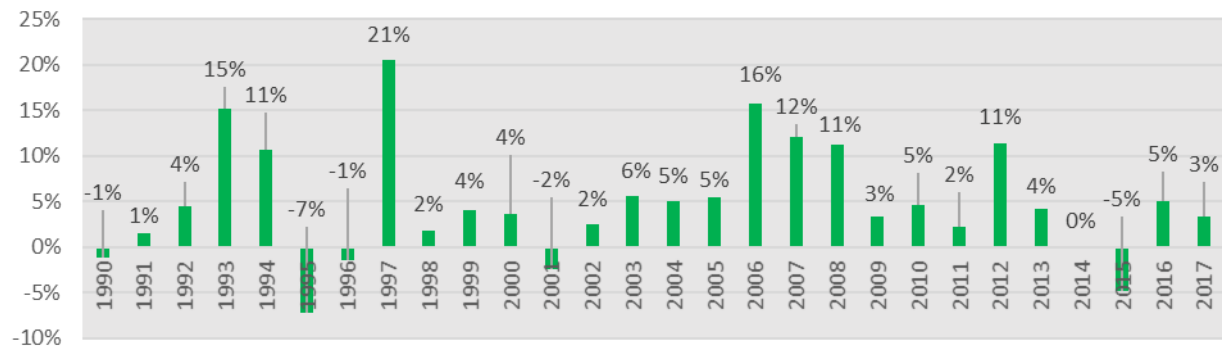
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$5 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Flat Stormwater Fee	

# Reading (W/S)

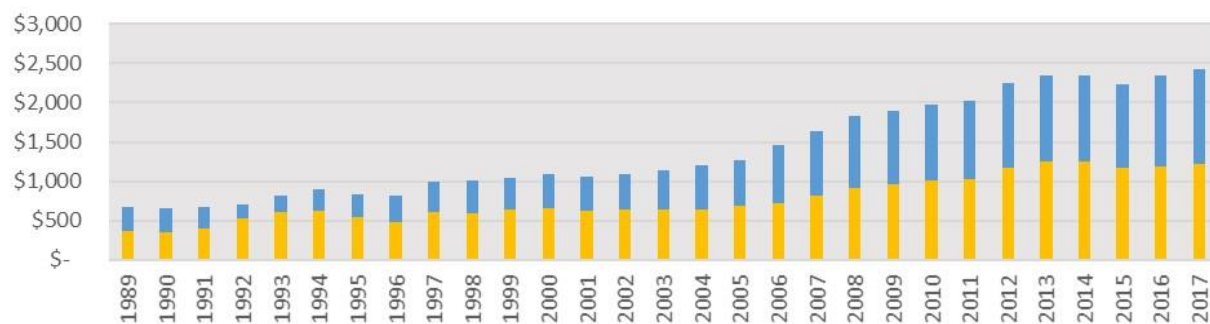
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$2,109,549	\$2,211,234	4.80%
<b>Sewer</b>	\$4,769,928	\$4,939,434	3.60%
<b>Combined</b>	\$6,879,477	\$7,150,668	3.90%



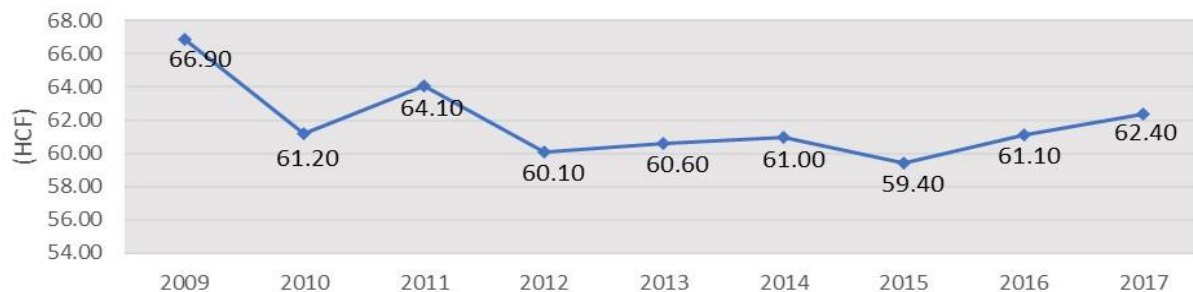
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Revere (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 4.01/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 12.49/HCF

Based on 100% of water usage.  
 Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$481.20	6.93%
Sewer	\$1,498.80	0.64%
<b>Combined</b>	<b>\$1,980.00</b>	<b>2.10%</b>

### Annual Cost Based on Local, State & Federal Data

(60.2 HCF – See Appendix C  
for Data & Calc.)

Water	\$242.20
Sewer	\$754.40
<b>Combined</b>	<b>\$996.60</b>

## Commercial Water Rates:

All units \$ 5.93/HCF

## Commercial Sewer Rates:

All units \$18.55/HCF

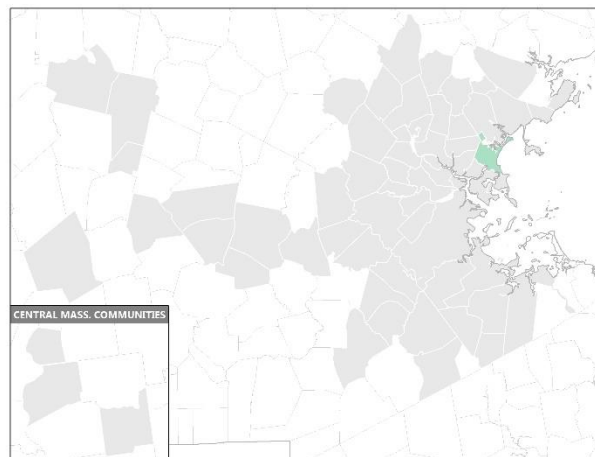
### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY17	Over 6
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$20 – 50 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

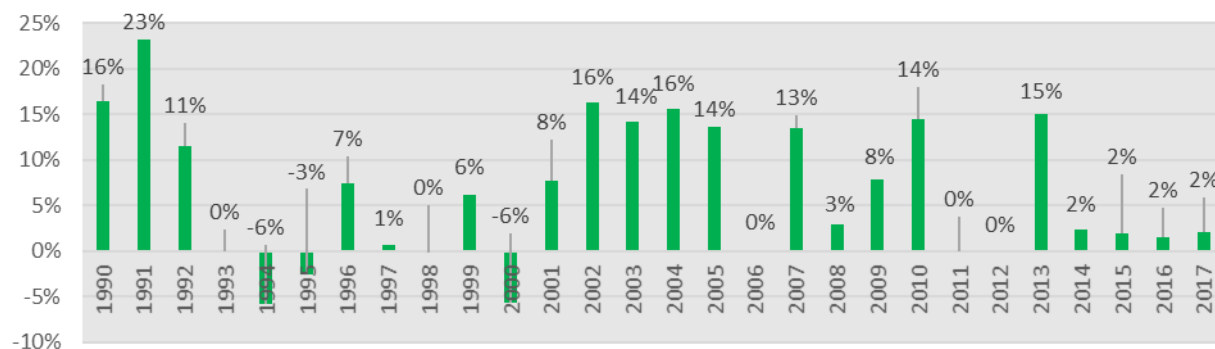
# Revere (W/S)

## FY 2018 MWRA Assessments

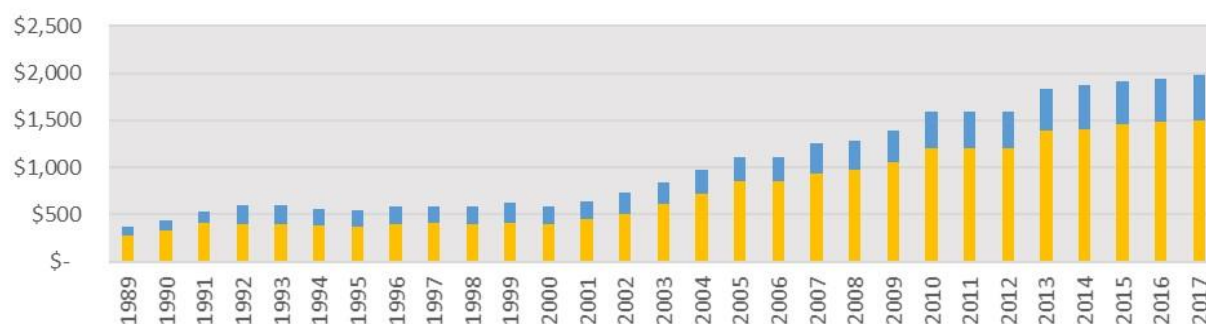
	FY17	FY18	% Change
<b>Water</b>	\$4,943,964	\$4,896,715	-1.00%
<b>Sewer</b>	\$10,611,549	\$10,775,969	1.50%
<b>Combined</b>	\$15,555,513	\$15,672,684	0.80%



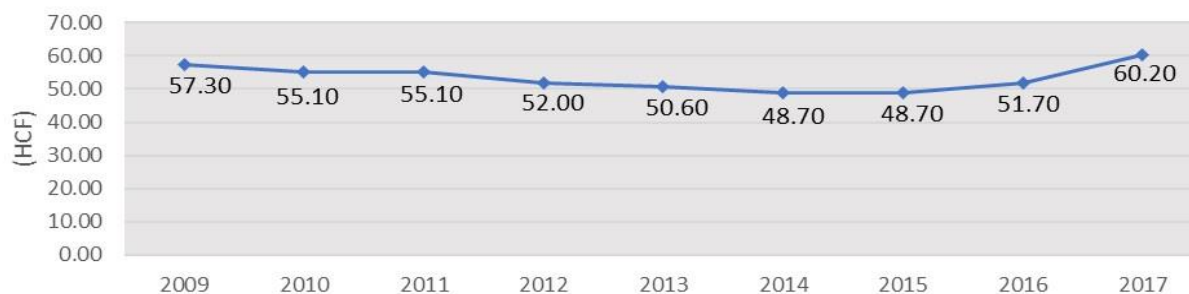
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Saugus (W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum Charge (20 HCF)	\$88.67
>20 – 30 HCF	\$ 4.73/HCF
>30 – 60 HCF	\$ 6.32 "
>60 – 100 HCF	\$ 7.90 "
>100 – 200 HCF	\$ 8.81 "
>200 – 500 HCF	\$ 9.88 "
>500 – 1,000 HCF	\$10.64 "
>1,000 HCF	

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum Charge (20 HCF)	\$68.10
>20 – 30 HCF	\$ 2.50/HCF
>30 – 60 HCF	\$ 3.40 "
>60 – 100 HCF	\$ 4.77 "
>100 – 200 HCF	\$ 5.91 "
>200 – 500 HCF	\$ 7.04 "
>500 – 1,000 HCF	\$7.83 "
>1,000 HCF	\$ 8.18 "

Based on 100% of water usage.

Billing Frequency: Semi-Annually

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$651.14	2.57%
Sewer	\$390.20	2.45%
<b>Combined</b>	<b>\$1,041.34</b>	<b>2.52%</b>

## Annual Cost Based on Local, State & Federal Data

(83.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$407.19
Sewer	\$258.96
<b>Combined</b>	<b>\$666.15</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

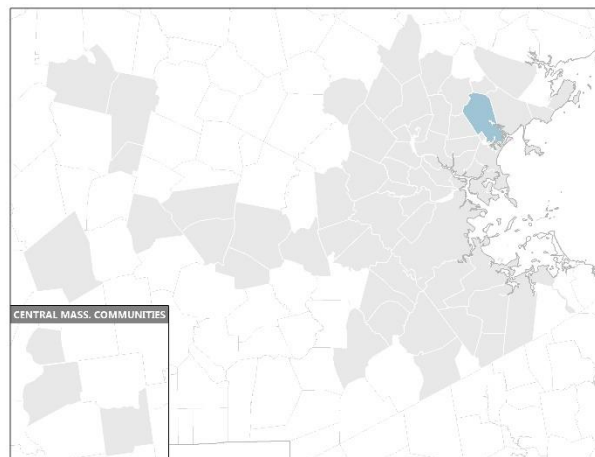
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	No Response
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	



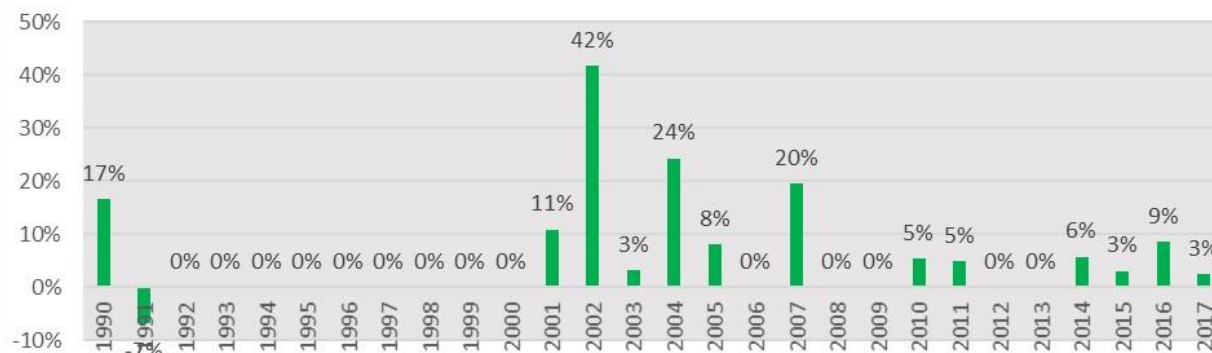
# Saugus (W)

## FY 2018 MWRA Assessments

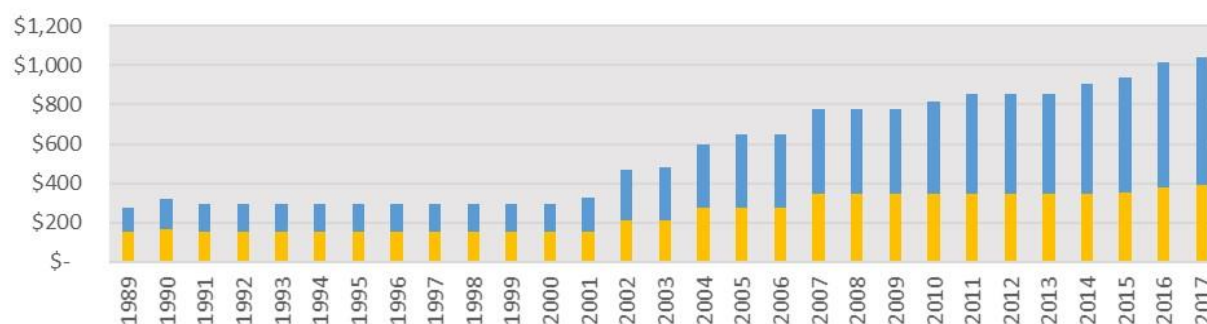
	FY17	FY18	% Change
<b>Water</b>	\$3,692,889	\$3,953,935	7.10%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$3,692,889	\$3,953,935	7.10%



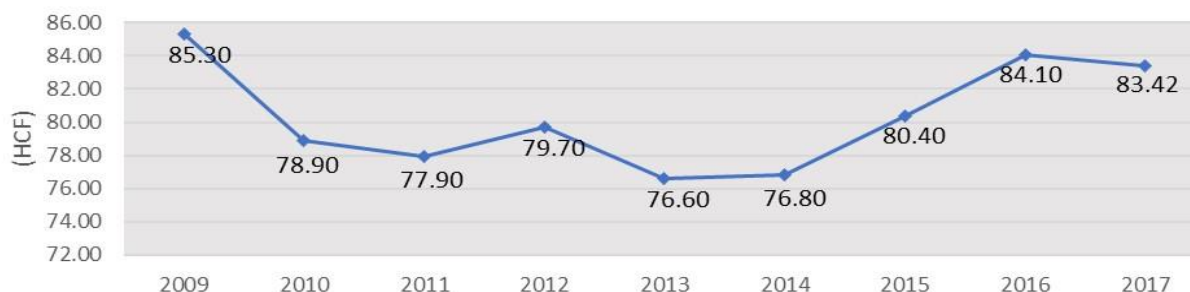
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Somerville (W/S)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 13 HCF \$4.14/HCF  
 >13 – 67 HCF \$5.97 "  
 >67 – 133 HCF \$6.26 "  
 >133 HCF \$6.50 "

Billing Frequency: Tri-Annually

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Sewer Fee \$40.00/bill  
 0 – 13 HCF \$ 7.81/HCF  
 >13 – 67 HCF \$ 9.97 "  
 >67 – 133 HCF \$ 10.45 "  
 >133 HCF \$10.82 "

Based on 100% of water usage.

Billing Frequency: Tri-Annually

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$645.03	0.00%
Sewer	\$1,232.16	4.56%
<b>Combined</b>	<b>\$1,877.19</b>	<b>2.94%</b>

## Annual Cost Based on Local, State & Federal Data

(50.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$227.73
Sewer	\$535.26
<b>Combined</b>	<b>\$762.99</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

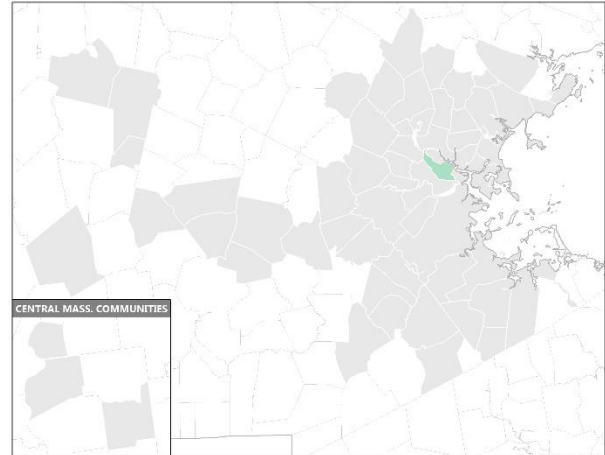
Same as residential

## Additional 2017 Data by Community

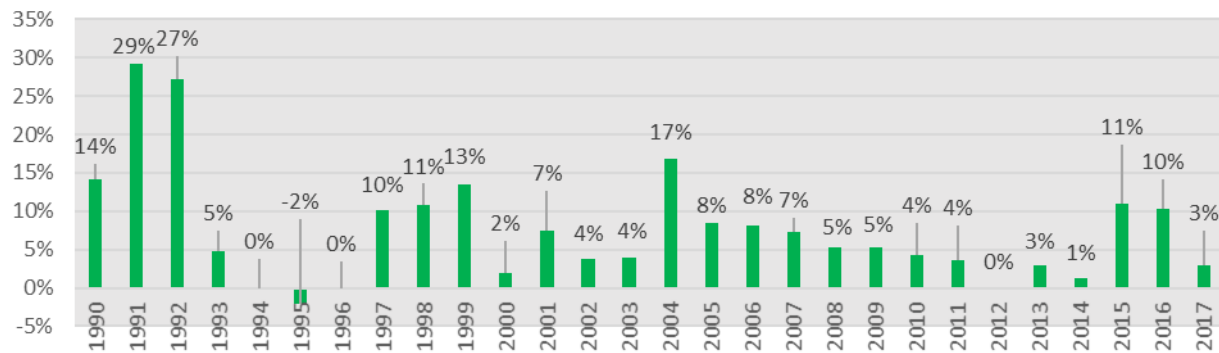
Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Somerville (W/S)

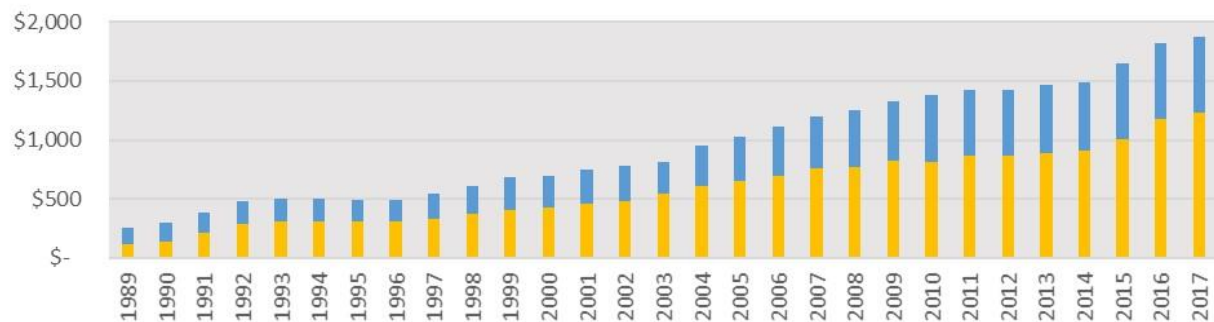
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$7,658,290	\$7,928,695	3.50%
<b>Sewer</b>	\$15,918,035	\$16,508,256	3.70%
<b>Combined</b>	\$23,576,325	\$24,436,951	3.70%



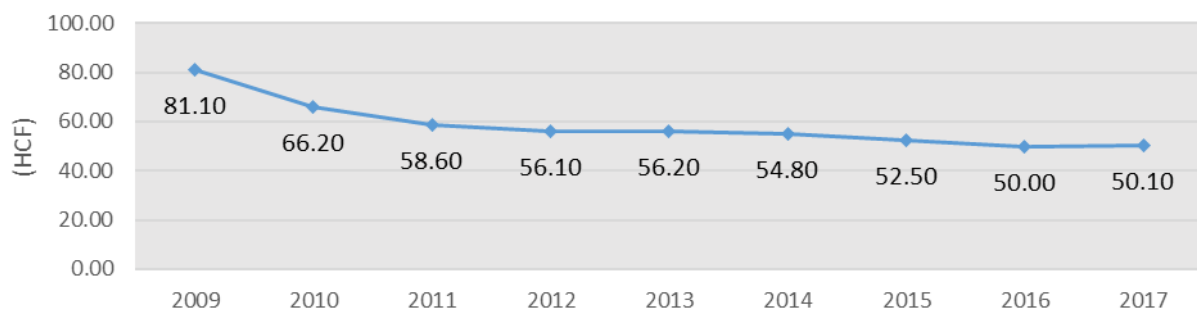
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# South Hadley (partial W)

## Residential Water Rates:

Last adjusted: June 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge \$15.00/family unit  
 All units \$3.92/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: Not applicable  
 Next adjustment scheduled: Not applicable  
 Fund: Not applicable

Community not sewerred.

Billing Frequency: N/A

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$530.40	12.28%
Sewer	\$0.00	#DIV/0!
<b>Combined</b>	<b>\$530.40</b>	<b>12.28%</b>

## Annual Cost Based on Local, State & Federal Data

(68.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$328.13
Sewer	\$0.00
<b>Combined</b>	<b>\$328.13</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

N/A

## Additional 2017 Data by Community

Does this Community Use Second Meters?		No		Does this Community Offer Senior and/or Low Income Discounts?		No
Water System				Sewer System		
MWRA Charges as % of Total Community Water Expenses	25-50%			MWRA Charges as % of Total Community Sewer Expenses	N/A	
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1			Miles of sewer pipeline replaced/rehabilitated in FY17	N/A	
Water Capital Needs over Next Five Years	\$0 – 10 million			Sewer Capital Needs over Next Five Years	N/A	
Anticipated Water Capital Spending over Next Five Years	\$100 thousand – \$1 million			Anticipated Sewer Capital Spending over Next Five Years	N/A	
Stormwater						
Current Funding Source of Stormwater-Related Costs:				N/A		

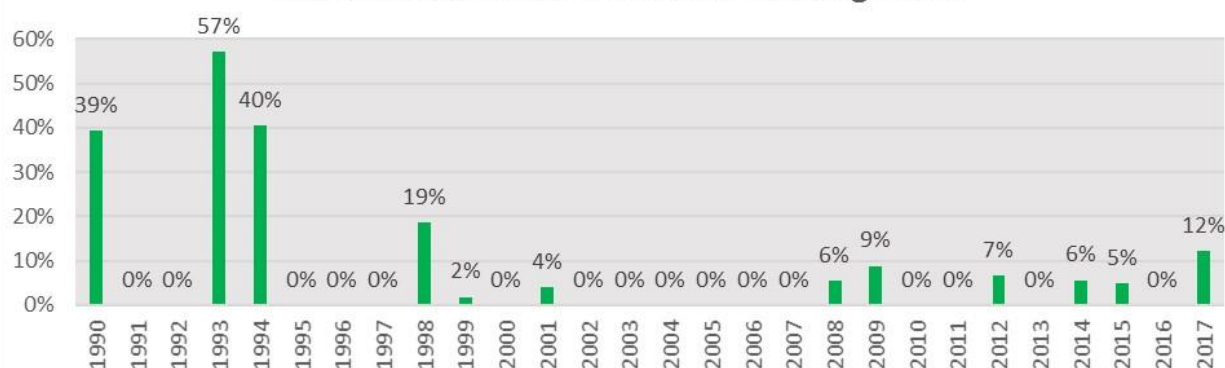
# South Hadley (partial W)

## FY 2018 MWRA Assessments

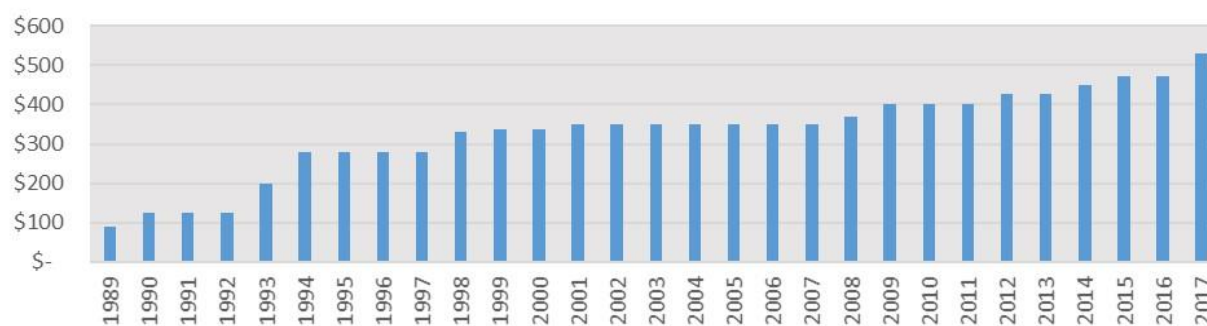
	FY17	FY18	% Change
<b>Water</b>	\$707,836	\$721,256	1.90%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$707,836	\$721,256	1.90%



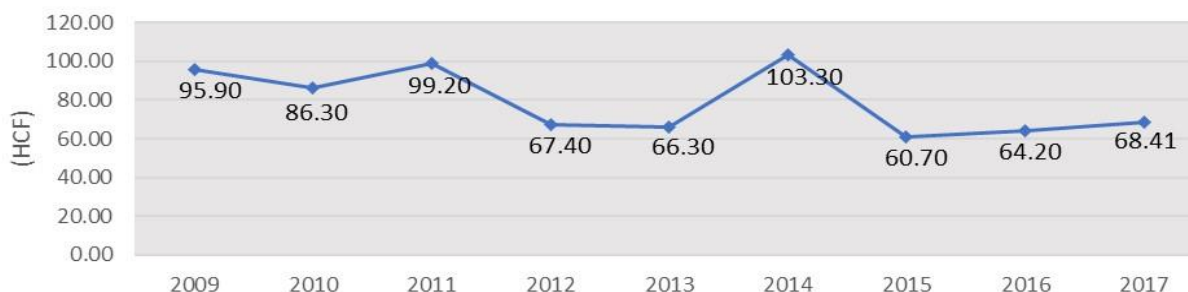
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Southborough (W)

## Residential Water Rates:

Last adjusted: September 2016  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue

Minimum charge (5/8" meter) includes first 10 HCF \$29.37

>10 – 20 HCF \$ 3.73/HCF  
 >20 – 35 HCF \$ 4.26 "  
 >35 – 80 HCF \$ 5.33 "  
 >80 HCF \$ 6.40 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: Not applicable  
 Next adjustment scheduled: Not applicable  
 Fund: Not applicable

Community not sewered.

Billing Frequency: N/A

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$437.08	0.00%
Sewer	\$0.00	#DIV/0!
<b>Combined</b>	<b>\$437.08</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(106.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$377.44
Sewer	\$0.00
<b>Combined</b>	<b>\$377.44</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

N/A

### Additional 2017 Data by Community

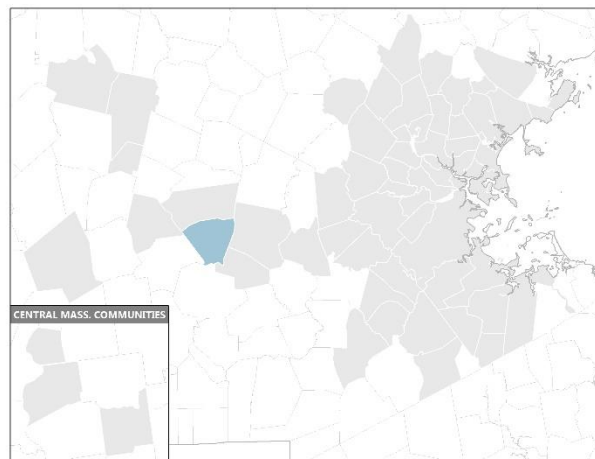
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50 – 75%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	N/A
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	N/A
Anticipated Water Capital Spending over Next Five Years	\$1 million - \$5 million	Anticipated Sewer Capital Spending over Next Five Years	N/A
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	



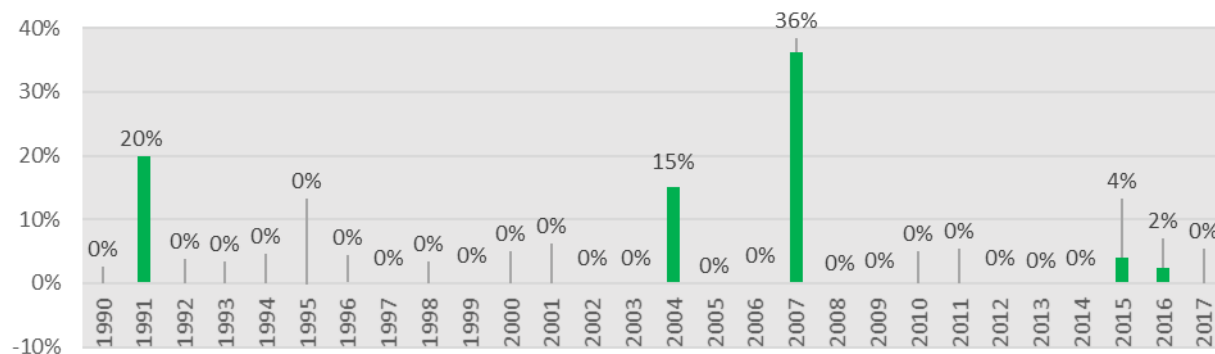
# Southborough (W)

## FY 2018 MWRA Assessments

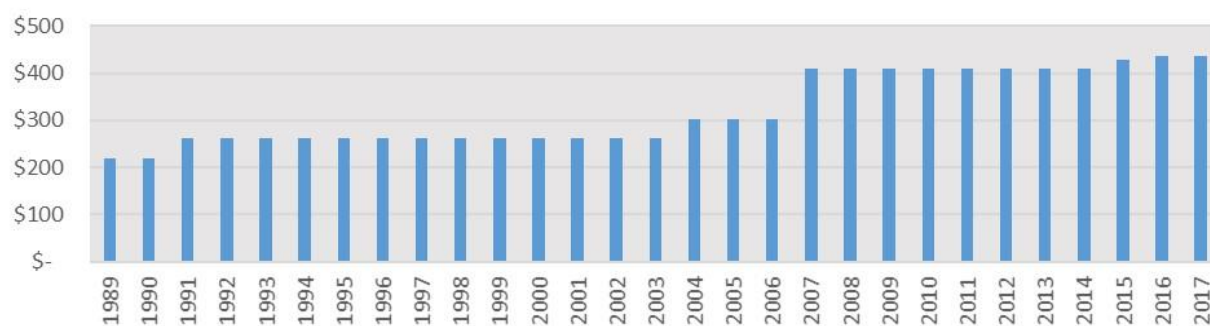
	FY17	FY18	% Change
<b>Water</b>	\$948,422	\$997,207	5.10%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$948,422	\$997,207	5.10%



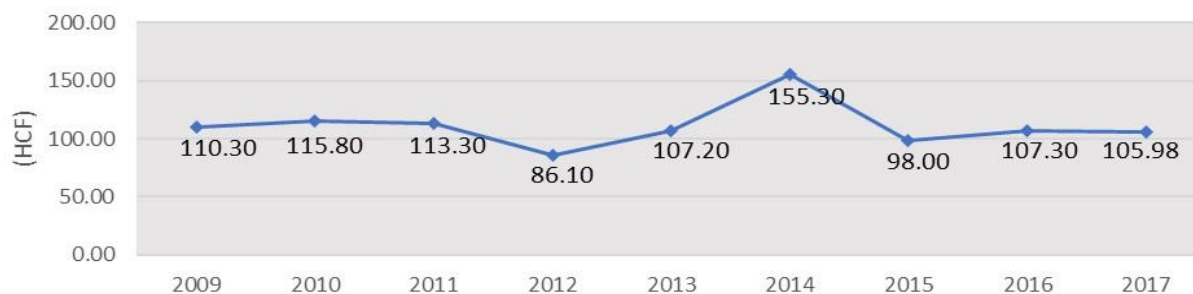
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Stoneham (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 5.65/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 8.95/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$678.00	-1.74%
Sewer	\$1,074.00	-1.10%
<b>Combined</b>	<b>\$1,752.00</b>	<b>-1.35%</b>

### Annual Cost Based on Local, State & Federal Data

(67.2 HCF – See Appendix C  
for Data & Calc.)

Water	\$379.68
Sewer	\$601.44
<b>Combined</b>	<b>\$981.12</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

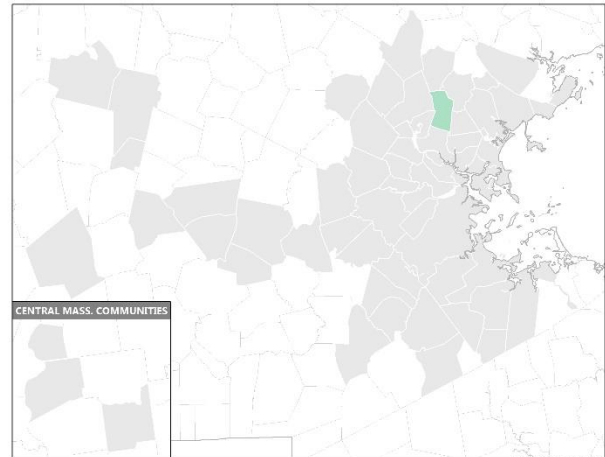
Same as residential

### Additional 2017 Data by Community

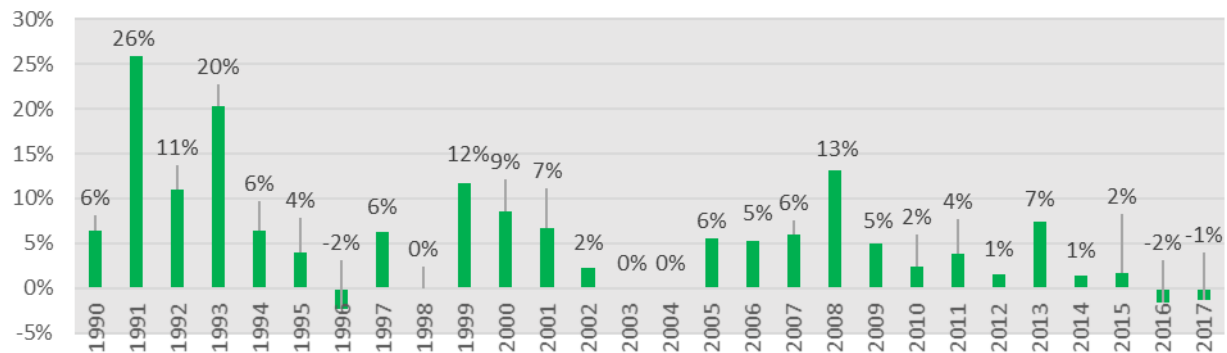
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50 – 75%	MWRA Charges as % of Total Community Sewer Expenses	50 – 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 million - \$5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 million - \$5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Rate	

# Stoneham (W/S)

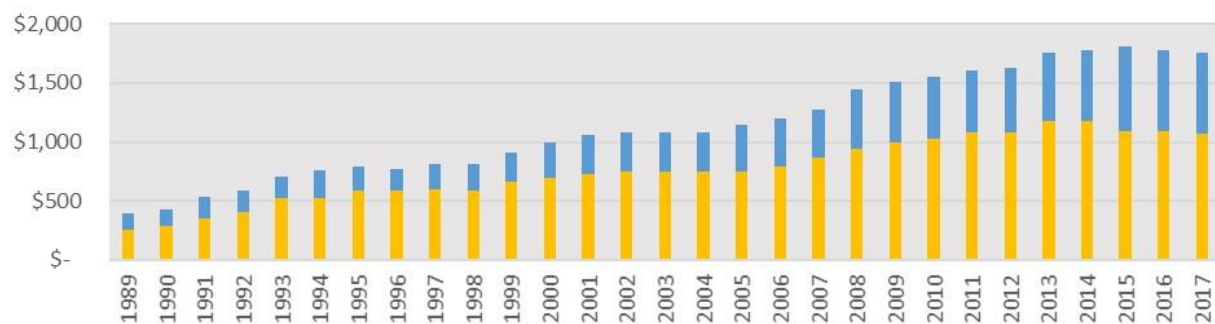
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$3,174,690	\$3,027,480	-4.60%
<b>Sewer</b>	\$4,542,049	\$4,600,334	1.30%
<b>Combined</b>	\$7,716,739	\$7,627,814	-1.20%



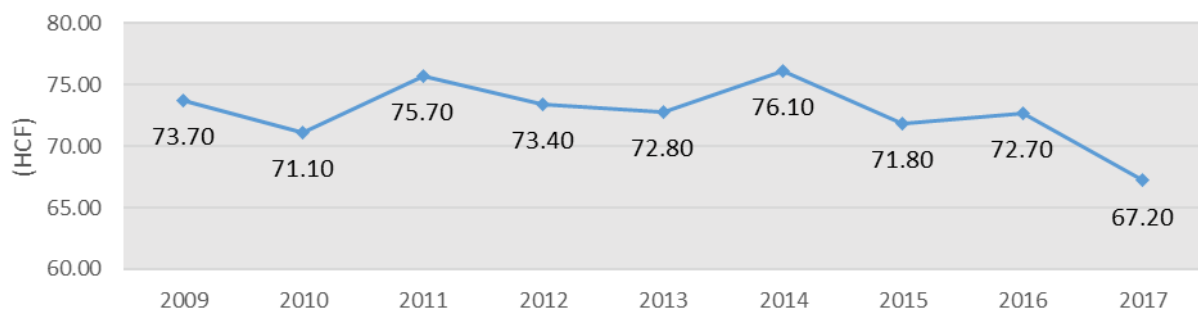
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Stoughton (S/ partial W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Service Charge (5/8" meter) \$12.80/bill  
 0 – 26 HCF \$ 4.12/HCF  
 >26 – 59 HCF \$ 6.07 "  
 >59 HCF \$ 8.40 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge (7.8 HCF) \$76.28  
 All units \$ 9.79/HCF

Based on 100% of water usage.  
 Customers with private wells pay a flat charge per billing period of: \$191.83 per condominium, \$287.89 per private home.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$576.80	4.28%
Sewer	\$1,174.80	1.98%
<b>Combined</b>	<b>\$1,751.60</b>	<b>2.73%</b>

## Annual Cost Based on Local, State & Federal Data

(63.8 HCF – See Appendix C  
for Data & Calc.)

Water	\$313.23
Sewer	\$622.64
<b>Combined</b>	<b>\$935.88</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

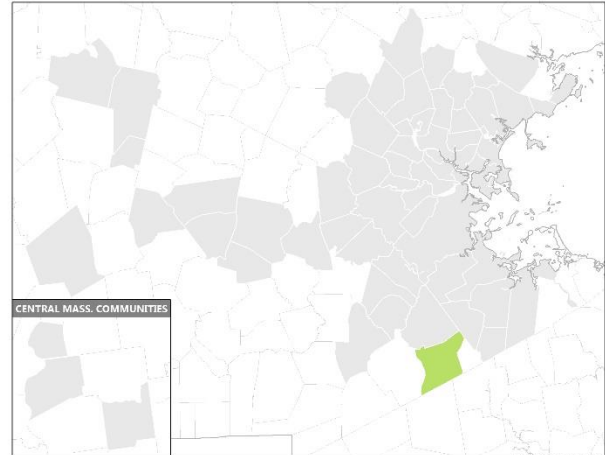
### Additional 2017 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	Over 6 miles
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5 – 10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (Stormwater-related costs are recovered through the general fund, a revolving account and permit fees. )	

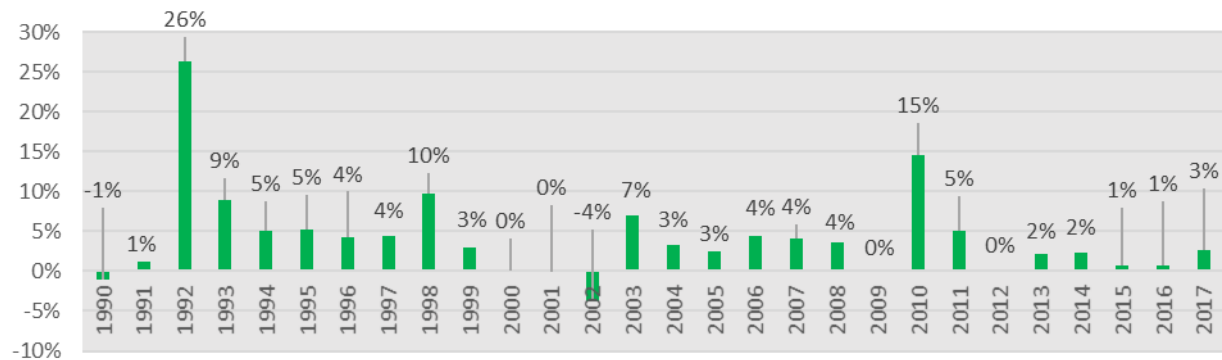
\*Stormwater-related costs are recovered through the general fund, a revolving account and permit fees.

# Stoughton (S/ partial W)

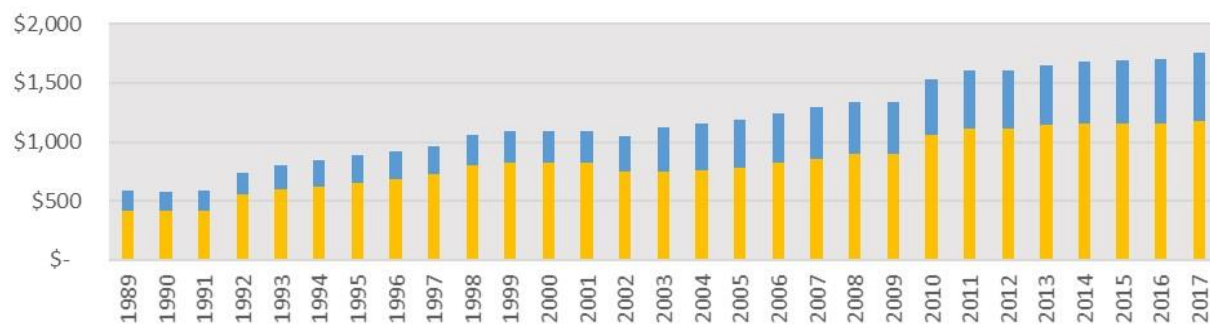
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$1,144,245	\$253,810	-77.80%
<b>Sewer</b>	\$4,747,341	\$5,031,822	6.00%
<b>Combined</b>	\$5,891,586	\$5,285,632	-10.30%



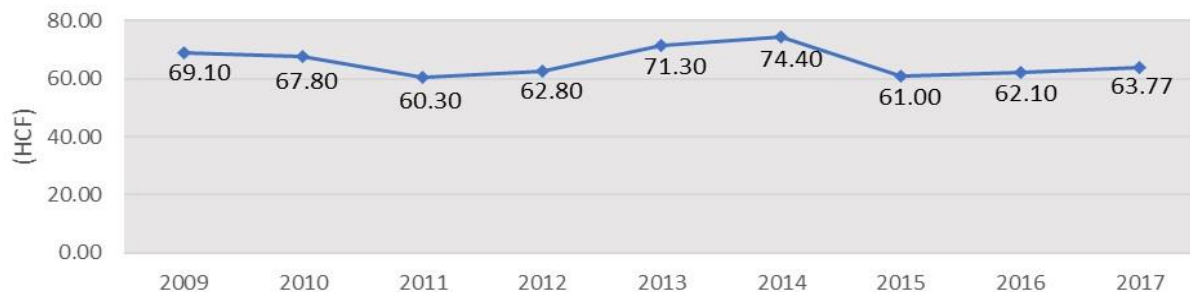
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Swampscott (W)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base Charge \$11.00/bill  
 All units \$ 6.70/HFC

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base Charge \$8.75/bill  
 All units \$5.20/HFC

Based on 100% of water usage.  
 Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$848.00	0.00%
Sewer	\$659.00	0.00%
<b>Combined</b>	<b>\$1,507.00</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(85.2 HCF – See Appendix C  
for Data & Calc.)

Water	\$614.84
Sewer	\$659.00
<b>Combined</b>	<b>\$1,273.84</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	Over 75%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$20 – 20 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand – \$1 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Rate	

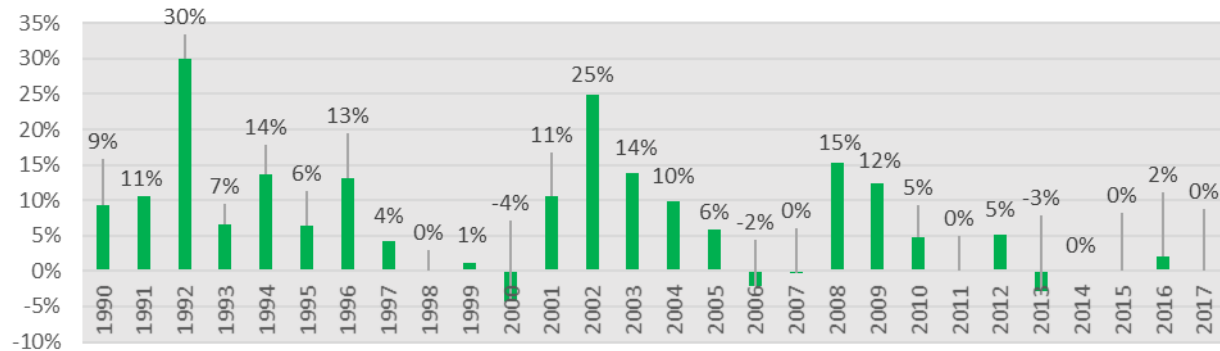
# Swampscott (W)

## FY 2018 MWRA Assessments

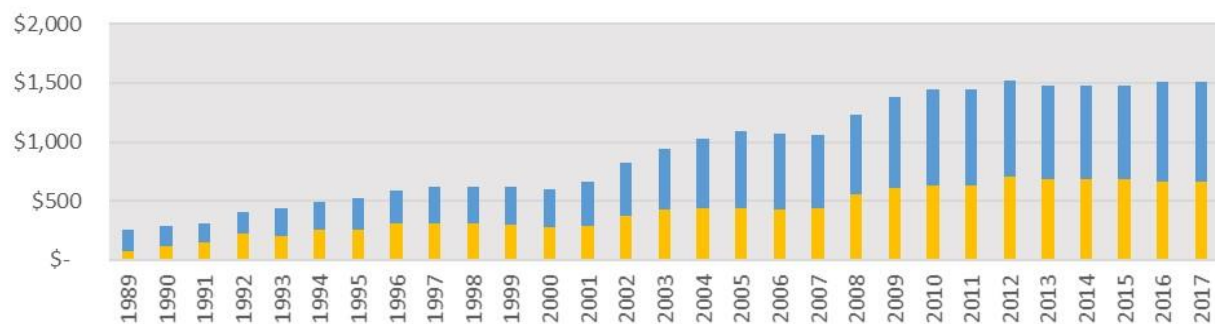
	FY17	FY18	% Change
<b>Water</b>	\$1,834,151	\$1,892,557	3.20%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$1,834,151	\$1,892,557	3.20%



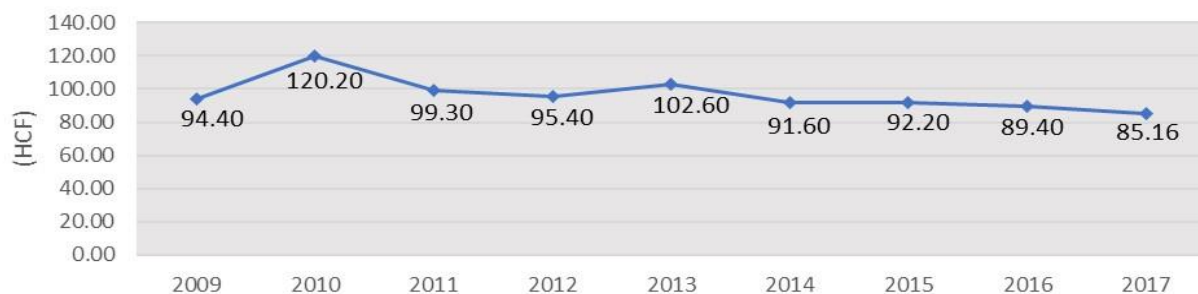
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Wakefield (S/ partial W)

## Residential Water Rates:

Last adjusted: June 2017  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

All units \$ 6.95/HFC

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: June 2017  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

All units \$ 10.90/HFC

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$750.60	13.01%
Sewer	\$1,177.20	3.32%
<b>Combined</b>	<b>\$1,927.80</b>	<b>6.89%</b>

### Annual Cost Based on Local, State & Federal Data

(81.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$510.41
Sewer	\$800.50
<b>Combined</b>	<b>\$1,310.90</b>

- The rates calculated above include a 10% discount for all bills paid within 30 days of the bill date. The Town of Wakefield estimates that 95% of the customer base takes advantage of the discount. Without this discount, the annual cost for 120 HCF would be \$678.00 for water and \$1,254.00 for sewer.

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

Does this Community Use Second Meters?	Yes, grandfathered only	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	\$100 thousand – \$1 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

Wakefield has a moratorium on second meters; units in place before the moratorium are allowed second meters.



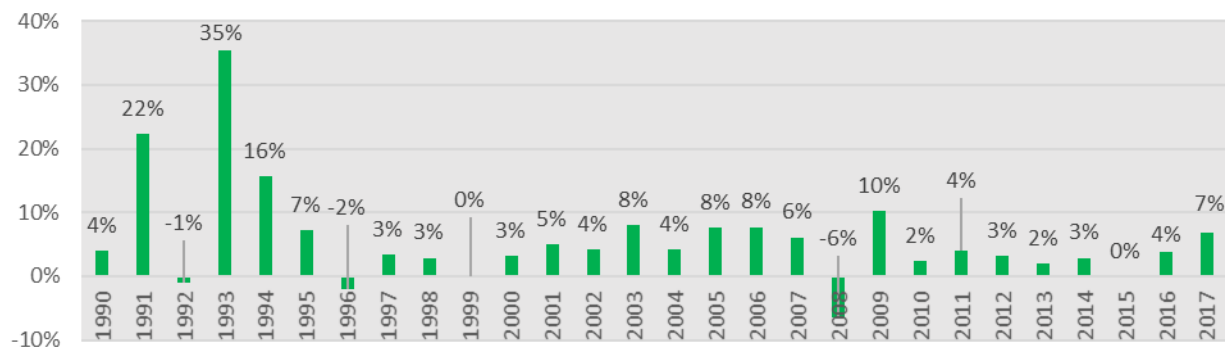
# Wakefield (S/ partial W)

## FY 2018 MWRA Assessments

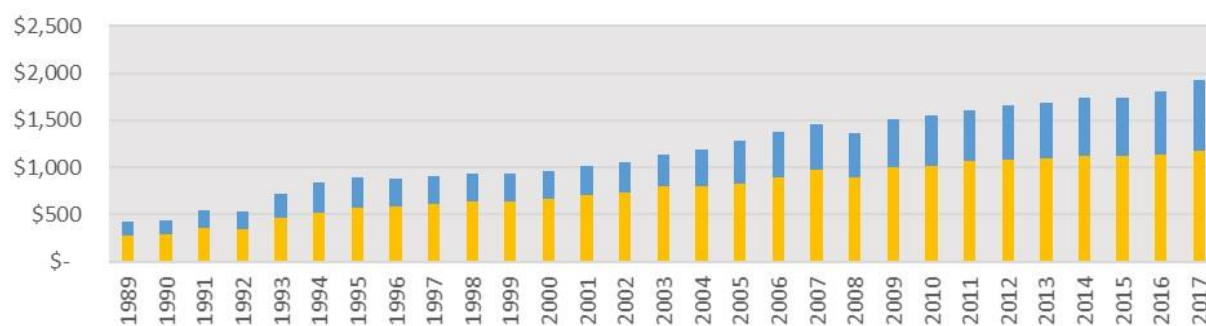
	FY17	FY18	% Change
<b>Water</b>	\$1,852,218	\$2,169,915	17.20%
<b>Sewer</b>	\$5,813,697	\$6,075,836	4.50%
<b>Combined</b>	\$7,665,915	\$8,245,751	7.60%



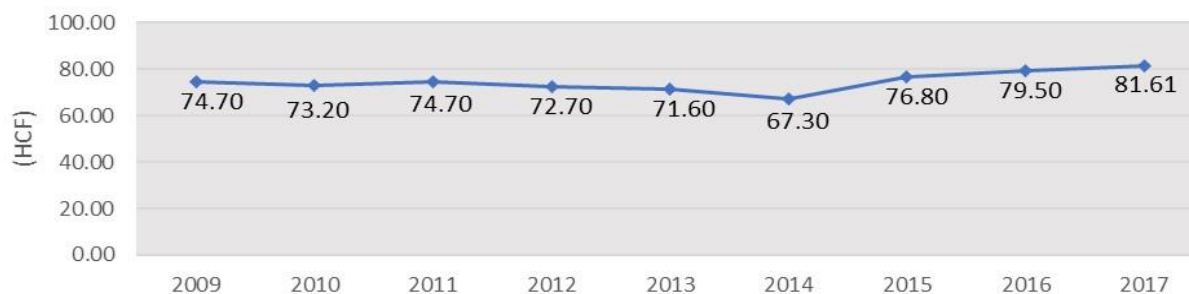
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Walpole (S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 5.853/HFC

Billing Frequency: Bi-Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$ 8.761/HFC

Based on 80% of water usage.

Billing Frequency: Bi-Monthly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$702.36	2.50%
Sewer	\$841.06	3.00%
<b>Combined</b>	<b>\$1,543.42</b>	<b>2.77%</b>

### Annual Cost Based on Local, State & Federal Data

(89.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$524.43
Sewer	\$627.99
<b>Combined</b>	<b>\$1,152.42</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

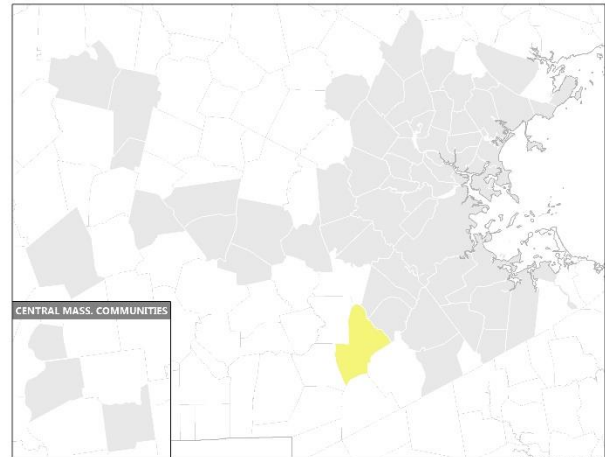
Same as residential

### Additional 2017 Data by Community

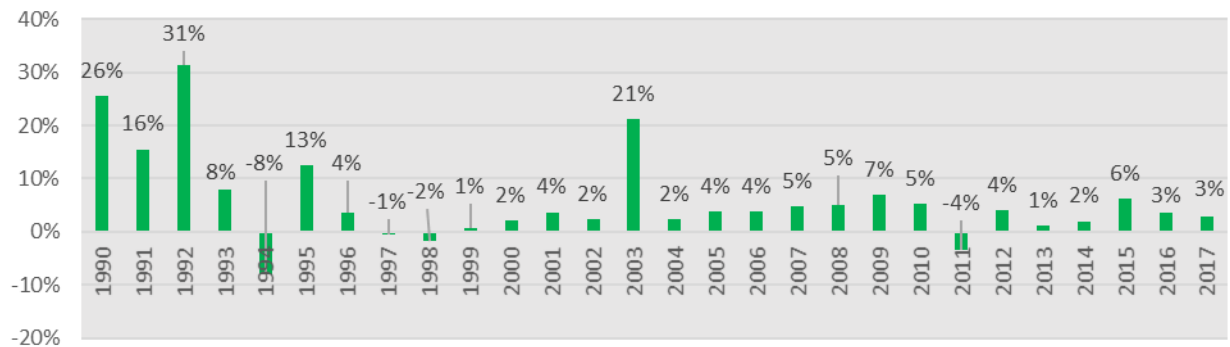
Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Walpole (S)

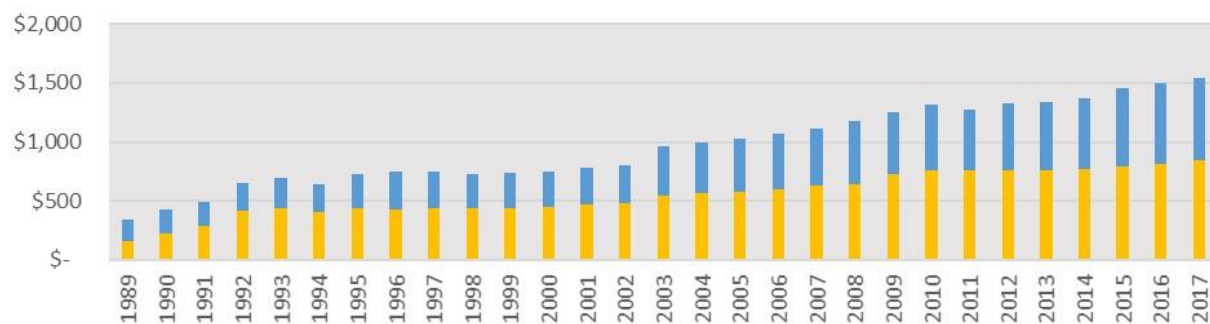
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$3,713,877	\$3,821,880	2.90%
<b>Combined</b>	\$3,713,877	\$3,821,880	2.90%



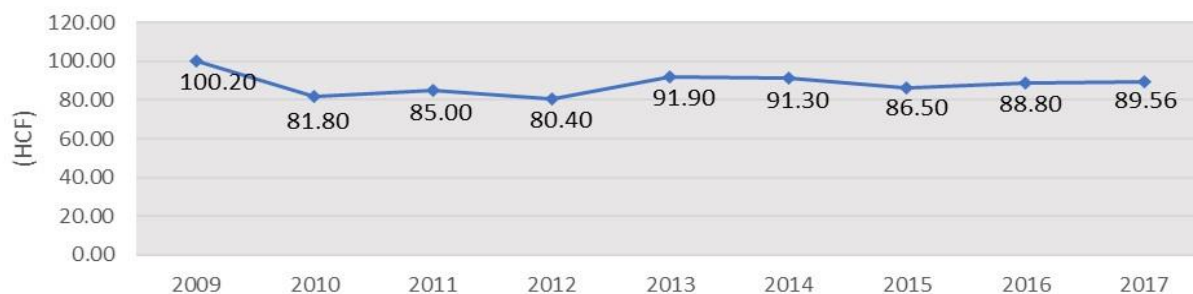
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Waltham (W/S)

## Residential Water Rates:

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

Minimum Charge: \$9.21  
 0 – 21 HCF \$3.07/HCF  
 >21 – 45 HCF \$4.15 "  
 >45 – 120 HCF \$6.65 "  
 >120 HCF \$8.89 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

Minimum Charge: \$5.46  
 0 – 21 HCF \$ 5.46/HCF  
 >21 – 45 HCF \$ 7.13 "  
 >45 – 120 HCF \$10.76 "  
 >120 HCF \$13.01 "

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$407.28	-4.98%
Sewer	\$715.32	-5.00%
<b>Combined</b>	<b>\$1,122.60</b>	<b>-5.00%</b>

### Annual Cost Based on Local, State & Federal Data

(56.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$173.15
Sewer	\$307.94
<b>Combined</b>	<b>\$481.09</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

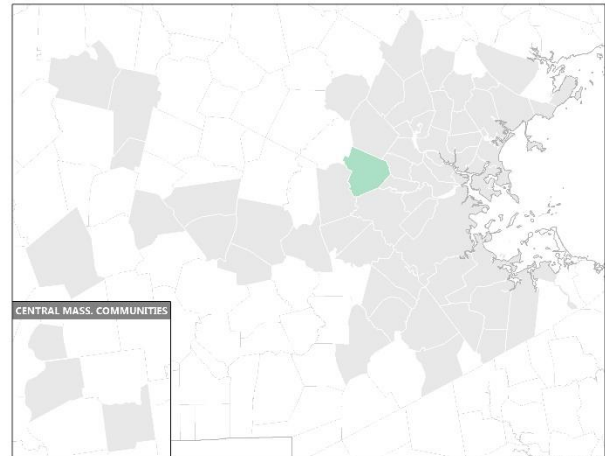
### Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$10 – 20 million	Sewer Capital Needs over Next Five Years	\$10 – 20 million
Anticipated Water Capital Spending over Next Five Years	\$5 – 10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5 – 10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		General Obligation Bonds	

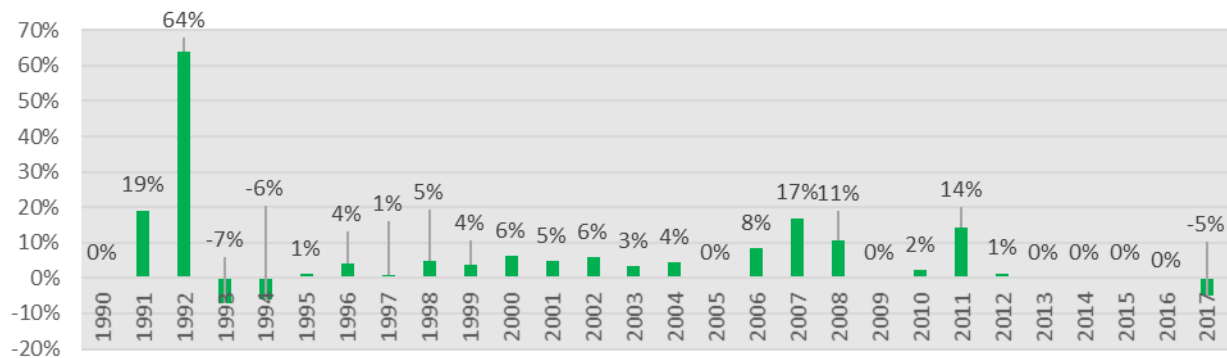
# Waltham (W/S)

## FY 2018 MWRA Assessments

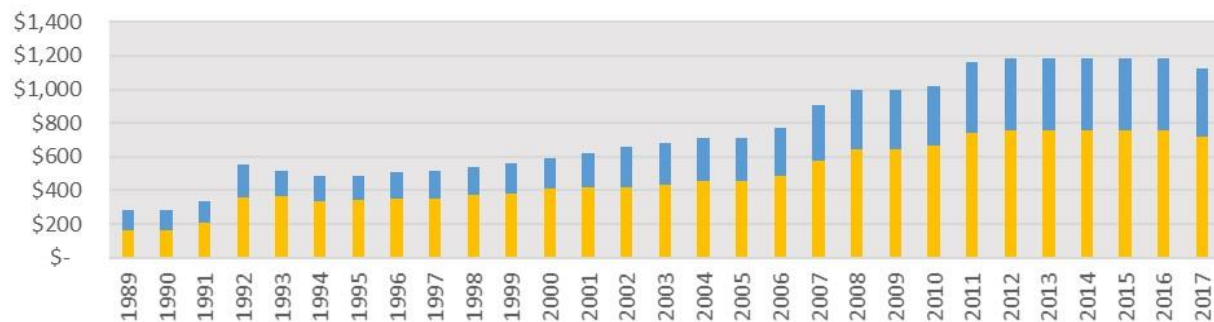
	FY17	FY18	% Change
<b>Water</b>	\$9,384,159	\$9,038,537	-3.70%
<b>Sewer</b>	\$13,122,122	\$13,521,664	3.00%
<b>Combined</b>	\$22,506,281	\$22,560,201	0.20%



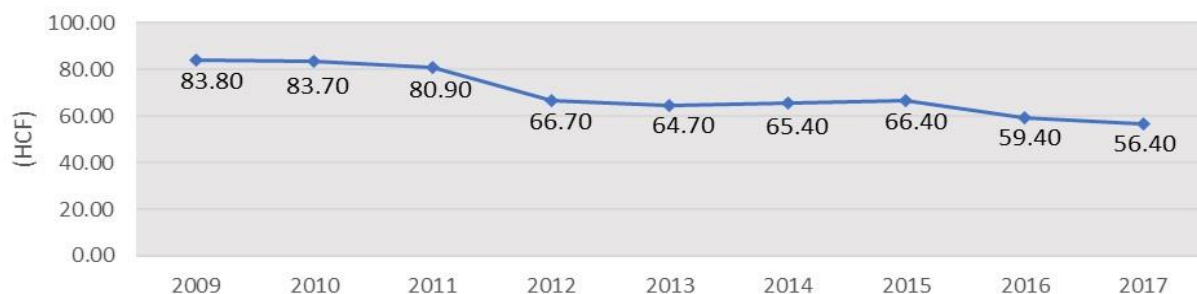
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Watertown (W/S)

**Residential Water Rates:**

Last adjusted: July 2015  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge (5/8") \$ 6.87/bill  
 0 – 30 HCF \$ 4.48/HCF  
 >30 – 300 HCF \$ 6.96 "  
 >300 HCF \$10.99 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2015  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

0 – 30 HCF \$ 8.28/HCF  
 >30 – 300 HCF \$10.70 "  
 >300 HCF \$14.33 "

Based on 100% of water usage.

Billing Frequency: Quarterly

**Annual Cost  
 AWWA Standard for Historical Comparison**

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$537.60	0.00%
Sewer	\$993.60	0.00%
<b>Combined</b>	<b>\$1,531.20</b>	<b>0.00%</b>

**Annual Cost Based on  
 Local, State & Federal Data**

(64.2 HCF – See Appendix C  
 for Data & Calc.)

Water	\$288.51
Sewer	\$533.23
<b>Combined</b>	<b>\$821.74</b>

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

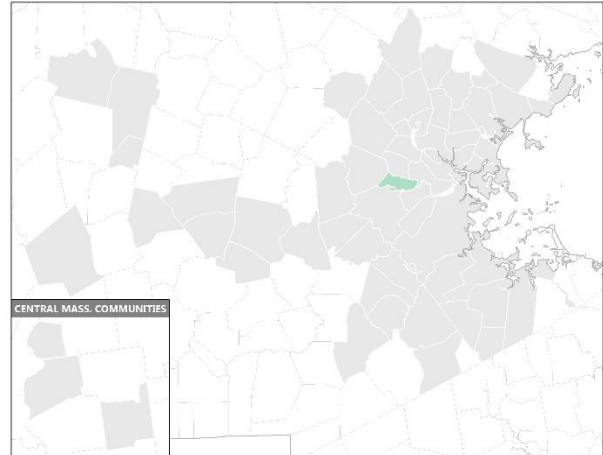
**Additional 2017 Data by Community**

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Low Income Discounts?	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY17	No Response	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	No Response	Sewer Capital Needs over Next Five Years	No Response
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

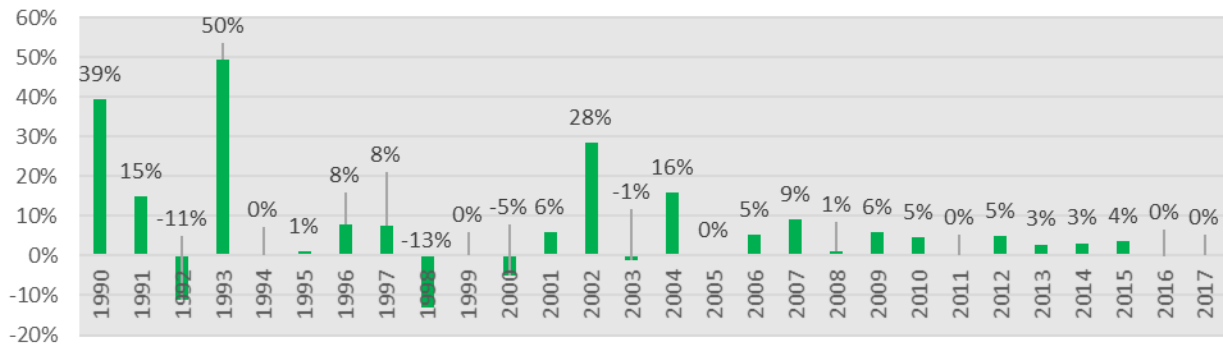
# Watertown (W/S)

## FY 2018 MWRA Assessments

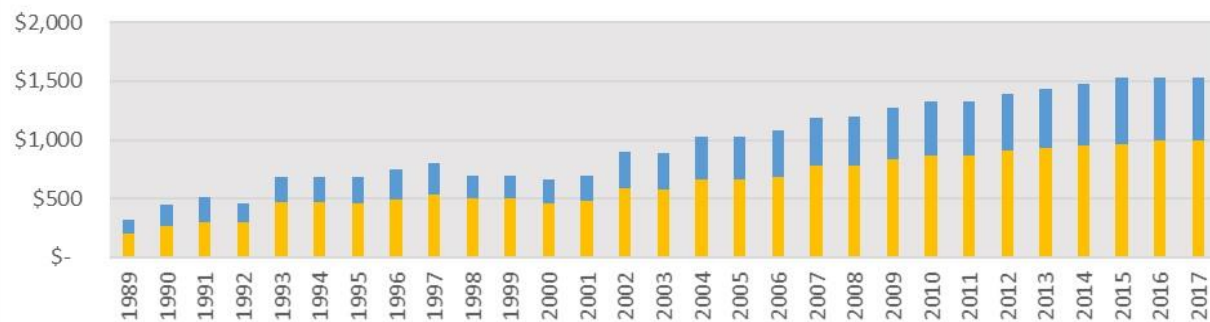
	FY17	FY18	% Change
<b>Water</b>	\$3,290,986	\$3,388,389	3.00%
<b>Sewer</b>	\$5,971,377	\$6,103,914	2.20%
<b>Combined</b>	\$9,262,363	\$9,492,303	2.50%



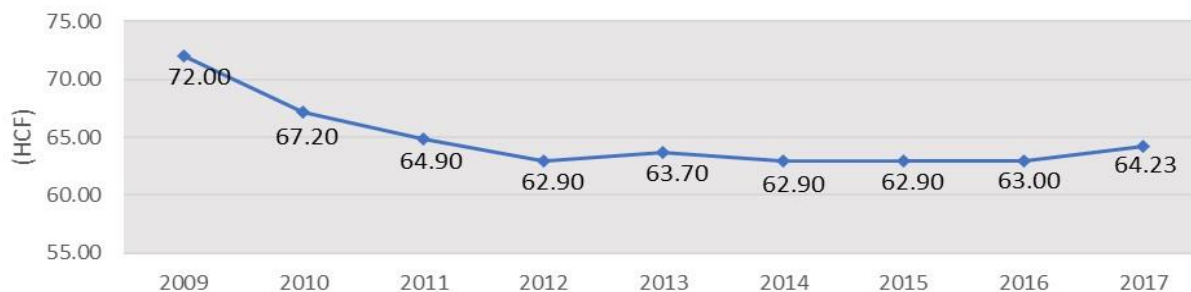
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Wellesley (S/ partial W)

**Residential Water Rates:**

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge \$6.83/bill  
 0 – 5 HCF \$2.99/HCF

5 – 12 HCF (except for peak use) \$3.51 "

Peak Use Charges (May – October):

>12 – 24 HCF \$5.57 "

>24 – 36 HCF \$7.21 "

>36 HCF \$9.18 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge \$1.50/bill  
 All units \$8.61/HCF

Based on 100% of water usage.

Billing Frequency: Monthly

**Annual Cost  
 AWWA Standard for Historical Comparison**

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$471.96	0.00%
Sewer	\$1,051.20	0.00%
<b>Combined</b>	<b>\$1,523.16</b>	<b>0.00%</b>

**Annual Cost Based on  
 Local, State & Federal Data**

(104.2 HCF – See Appendix C  
 for Data & Calc.)

Water	\$417.20
Sewer	\$916.88
<b>Combined</b>	<b>\$1,334.09</b>

**Commercial Water Rates:**

1-5 HCF \$2.99/HCF  
 >5-12 HCF \$ 3.16 "  
 Peak Use Charges (May - October)  
 >12 HCF \$ 5.57 "

**Commercial Sewer Rates:**

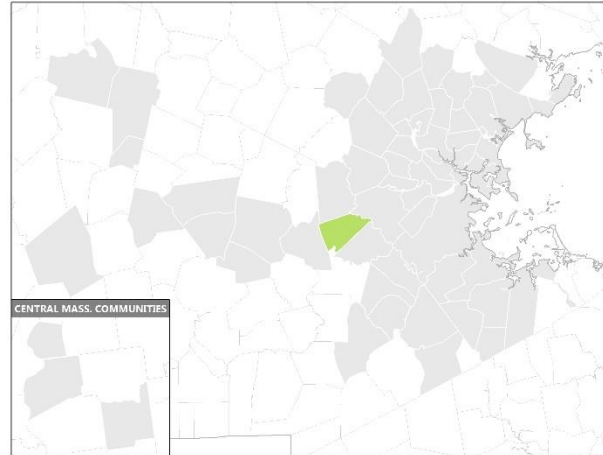
Same as residential

**Additional 2017 Data by Community**

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Wellesley (S/ partial W)

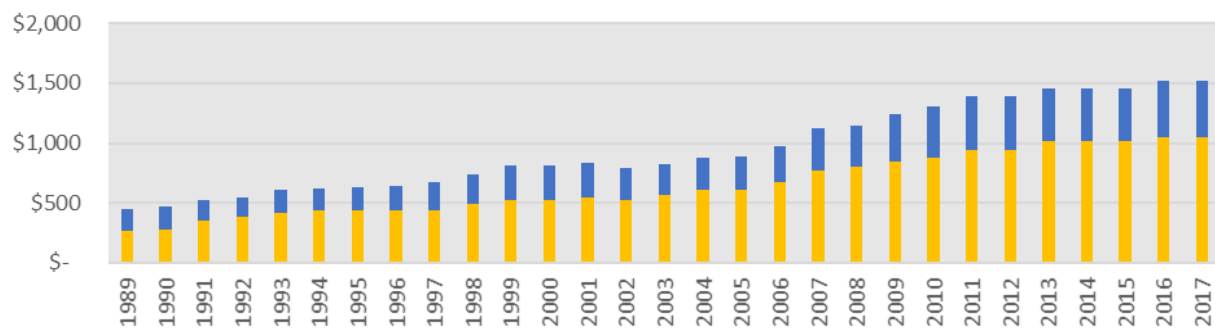
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$1,056,294	\$1,742,278	64.90%
<b>Sewer</b>	\$5,459,750	\$5,601,602	2.60%
<b>Combined</b>	\$6,516,044	\$7,343,880	12.70%



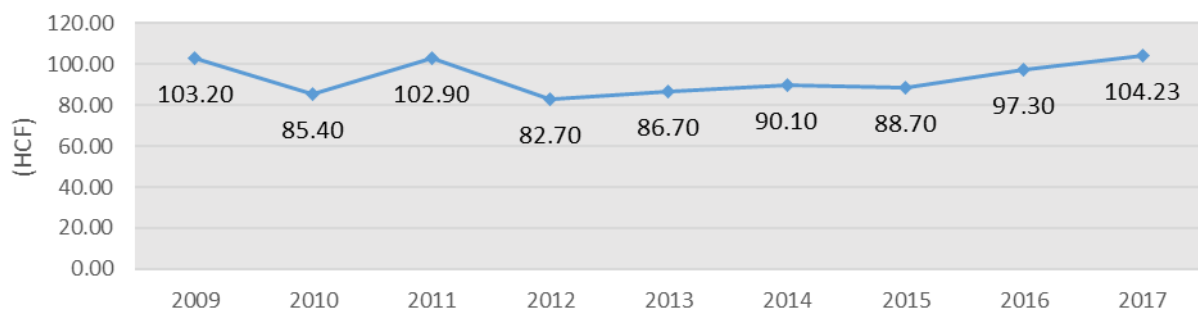
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Weston (W)

## Residential Water Rates:

Last adjusted: January 2016  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

Base charge (5/8" meter) \$21.00/bill  
 1 – 50 HCF \$ 1.44/HCF  
 >50 – 150 HCF \$ 4.06 "  
 >150 HCF \$ 7.57 "

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: Not applicable  
 Next adjustment scheduled: Not applicable  
 Fund: Not applicable

Community not sewered.

Billing Frequency: N/A

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$267.20	0.00%
Sewer	\$0.00	#DIV/0!
<b>Combined</b>	<b>\$267.20</b>	<b>0.00%</b>

## Annual Cost Based on Local, State & Federal Data

(186.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$535.16
Sewer	\$0.00
<b>Combined</b>	<b>\$535.16</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

N/A

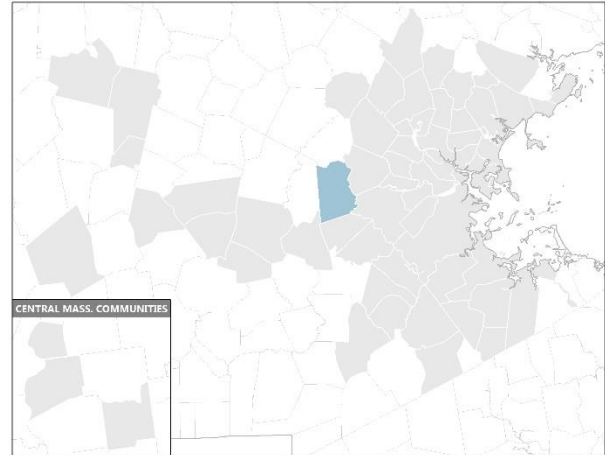
## Additional 2017 Data by Community

Does this Community Use Second Meters?		No		Does this Community Offer Senior and/or Low Income Discounts?		Yes, Both
Water System				Sewer System		
MWRA Charges as % of Total Community Water Expenses	50 – 75%			MWRA Charges as % of Total Community Sewer Expenses	N/A	
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1			Miles of sewer pipeline replaced/rehabilitated in FY17	N/A	
Water Capital Needs over Next Five Years	\$0 – 10 million			Sewer Capital Needs over Next Five Years	N/A	
Anticipated Water Capital Spending over Next Five Years	\$1 million - \$5 million			Anticipated Sewer Capital Spending over Next Five Years	N/A	
Stormwater						
Current Funding Source of Stormwater-Related Costs:				Tax Levy (DPW Budget)		

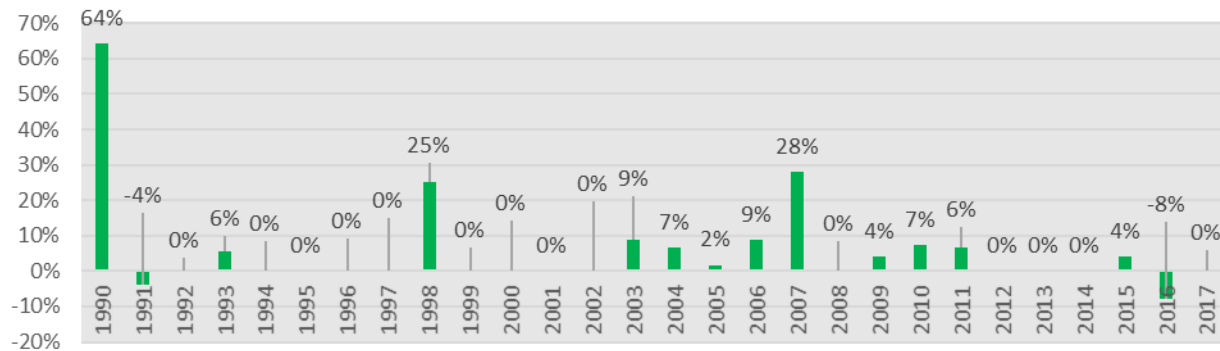
# Weston (W)

## FY 2018 MWRA Assessments

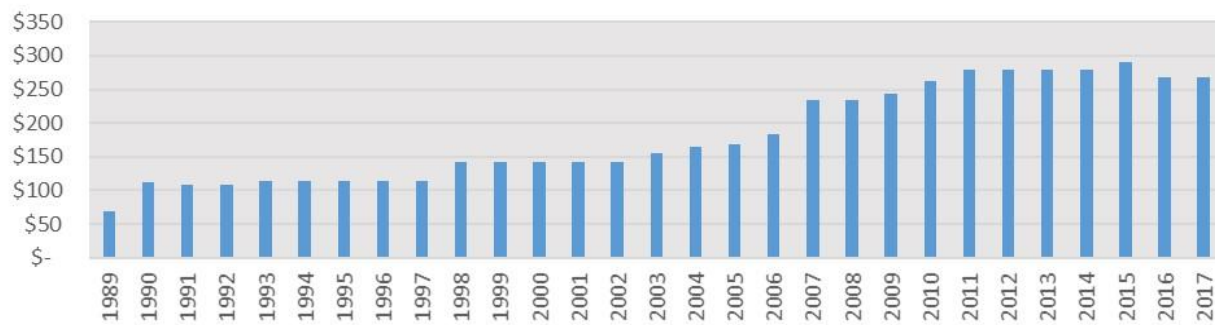
	FY17	FY18	% Change
<b>Water</b>	\$2,445,970	\$2,818,905	15.20%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$2,445,970	\$2,818,905	15.20%



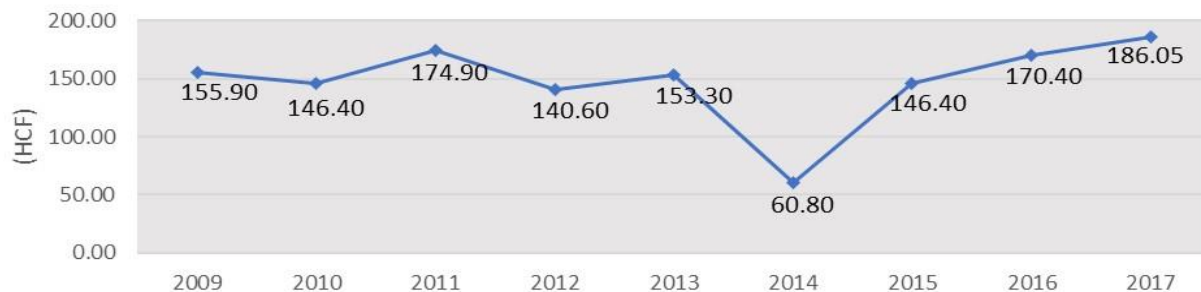
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Westwood (S/ partial W)

## Residential Water Rates:

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

Minimum charge per bill includes first 3 HCF (5/8" meter) \$12.57  
 >3 – 42 HCF \$ 4.43/HCF  
 >42 – 75 HCF \$ 7.19 "  
 >75 HCF \$ 9.31 "

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: July 2015  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge (5/8" meter) \$15.00/quarter  
 0 – 25 HCF \$ 5.80/HCF  
 >25 – 70 HCF \$ 8.65 "  
 >70 HCF \$15.50 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$629.28	0.17%
Sewer	\$813.00	0.00%
<b>Combined</b>	<b>\$1,442.28</b>	<b>0.07%</b>

## Annual Cost Based on Local, State & Federal Data

(79.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$448.54
Sewer	\$519.36
<b>Combined</b>	<b>\$967.90</b>

## Commercial Water Rates:

Minimum charge (with 9HCF): \$55.95  
 All other units \$4.43/HCF

## Commercial Sewer Rates:

Same as residential

## Additional 2017 Data by Community

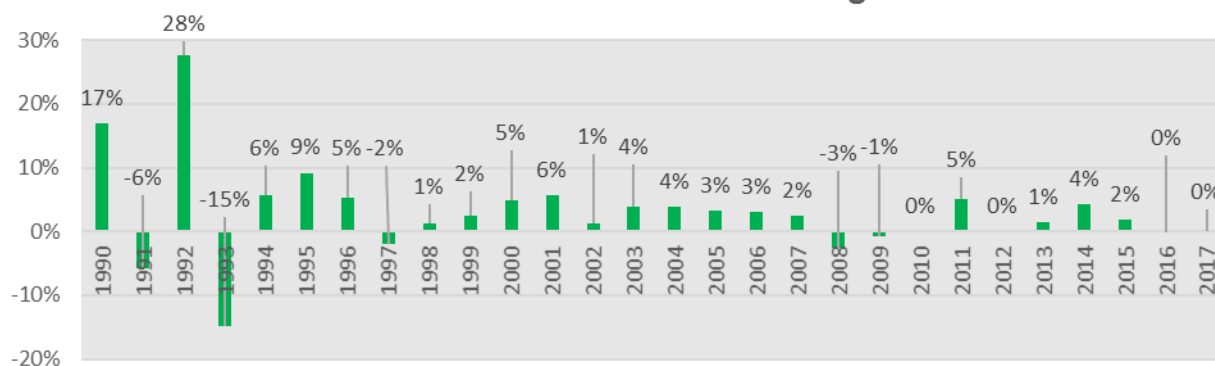
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$20-50 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Westwood (S/ partial W)

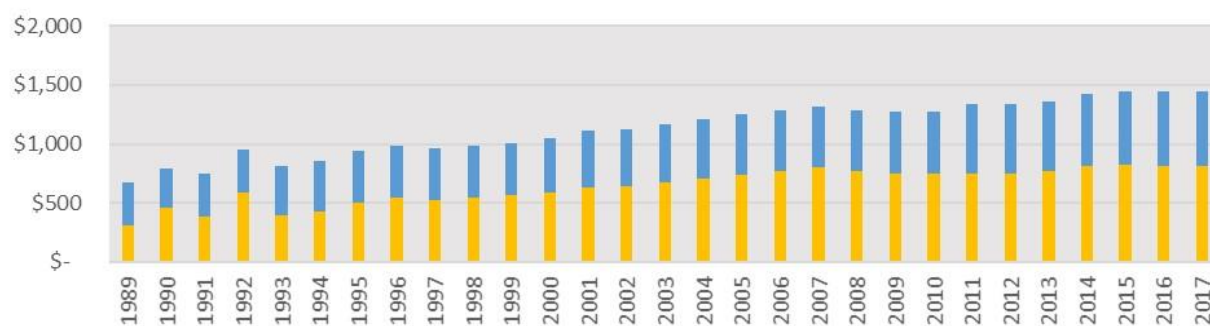
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$196,381	\$295,794	50.60%
<b>Sewer</b>	\$2,598,265	\$2,777,442	6.90%
<b>Combined</b>	\$2,794,646	\$3,073,236	10.00%



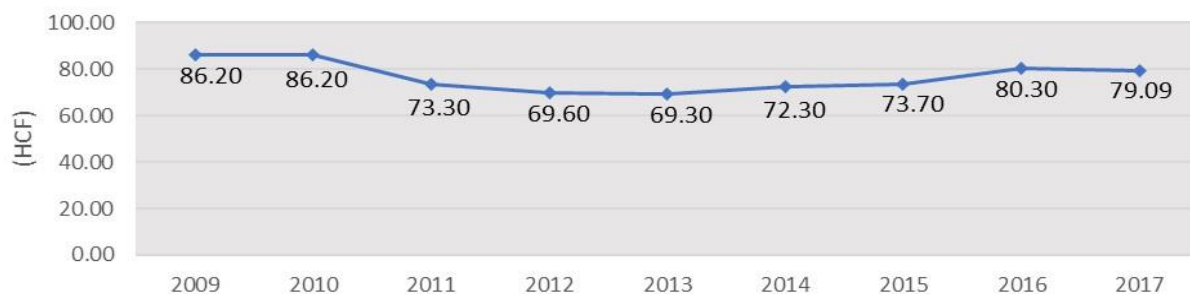
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Weymouth (S)

## Residential Water Rates:

Last adjusted: July 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge (5/8" meter) \$12.33/bill  
 0 – 27 HCF \$ 4.35/HCF  
 >27 HCF \$ 7.39 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge (5/8" meter) \$ 5.94/bill  
 0 – 27 HCF \$ 7.89/HCF  
 >27 HCF \$13.42 "

Based on 100% of water usage.  
 Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$607.80	0.00%
Sewer	\$1,036.92	0.12%
<b>Combined</b>	<b>\$1,644.72</b>	<b>0.07%</b>

### Annual Cost Based on Local, State & Federal Data

(56.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$296.40
Sewer	\$471.91
<b>Combined</b>	<b>\$768.31</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

### Additional 2017 Data by Community

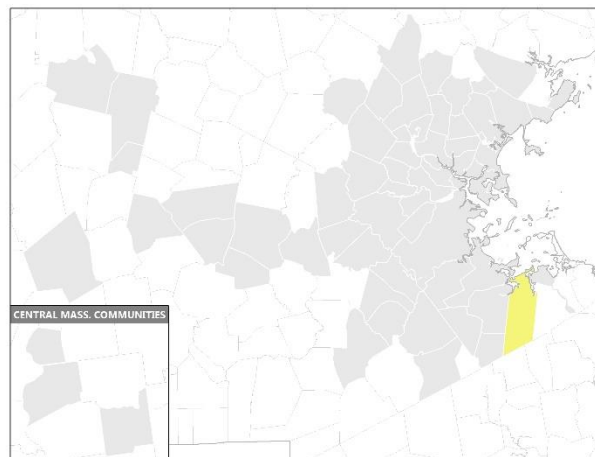
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	N/A	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$5 – 10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	



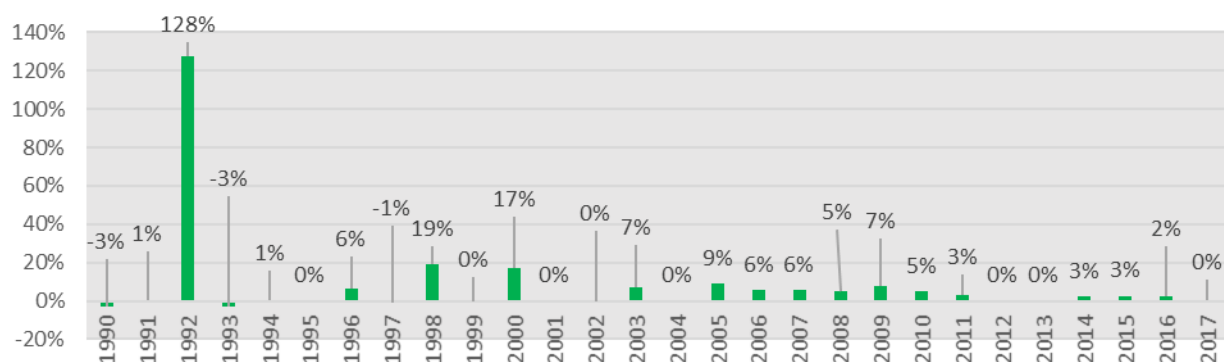
# Weymouth (S)

## FY 2018 MWRA Assessments

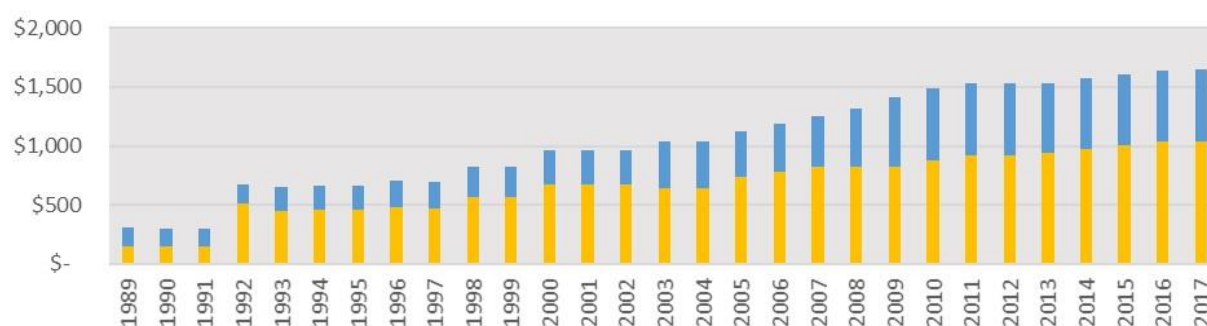
	FY17	FY18	% Change
<b>Water</b>	N/A	N/A	N/A
<b>Sewer</b>	\$11,765,811	\$12,036,129	2.30%
<b>Combined</b>	\$11,765,811	\$12,036,129	2.30%



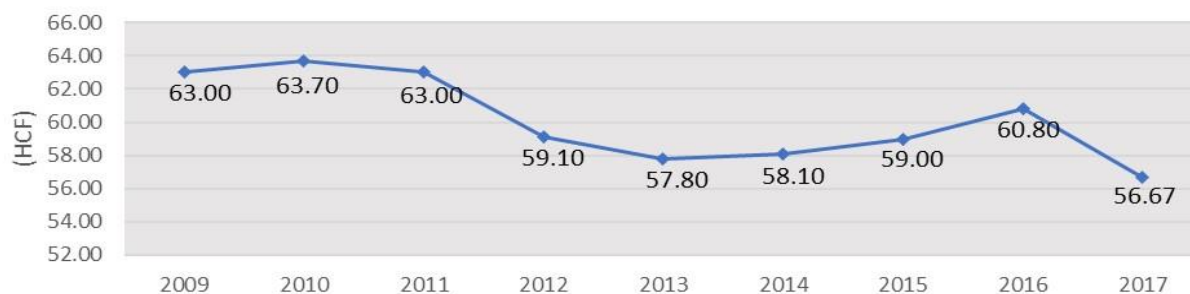
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Wilbraham (W)

## Residential Water Rates:

Last adjusted: October 2013  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill \$61.80  
 0 – 100 HCF \$ 4.12/HCF  
 >100 – 200 HCF \$ 4.32 "  
 >200 HCF \$ 4.52 "

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: October 2018  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill \$52.50  
 0 – 100 HCF \$ 4.10/HCF  
 >100 – 200 HCF  
 >200 HCF

Based on 100% of water usage.

Billing Frequency: Semi-Annually

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$494.40	0.00%
Sewer	\$492.00	0.00%
<b>Combined</b>	<b>\$986.40</b>	<b>0.00%</b>

## Annual Cost Based on Local, State & Federal Data

(67.0 HCF – See Appendix C  
for Data & Calc.)

Water	\$276.04
Sewer	\$274.70
<b>Combined</b>	<b>\$550.74</b>

- Wilbraham receives wholesale water from MWRA and wastewater services from the City of Springfield.

## Commercial Water Rates:

All units \$ 4.12/HCF  
 Commercial Minimum: same as residential

## Commercial Sewer Rates:

All units \$ 5.00/HCF  
 Commercial Minimum: \$60.00

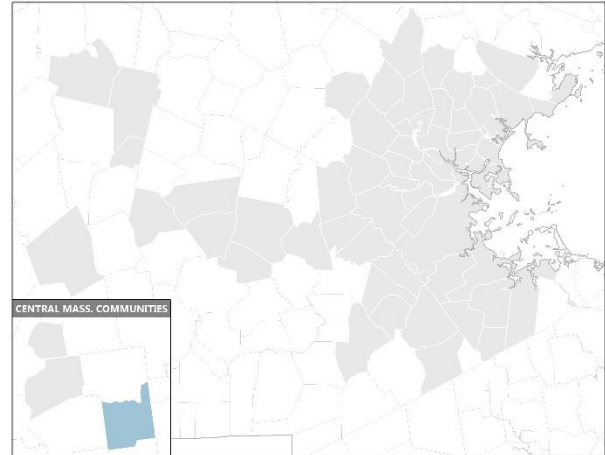
## Additional 2017 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	No Response
Water Capital Needs over Next Five Years	\$0-10 million	Sewer Capital Needs over Next Five Years	\$0-10 million
Anticipated Water Capital Spending over Next Five Years	No Response	Anticipated Sewer Capital Spending over Next Five Years	No Response
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

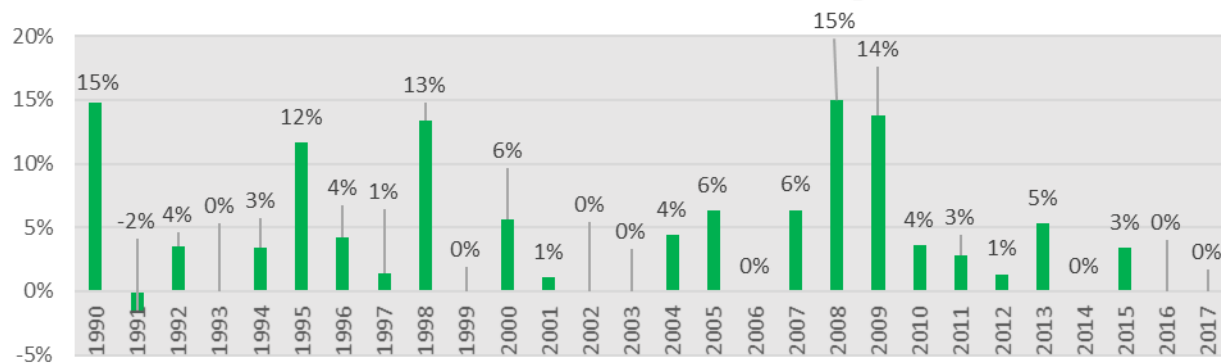
# Wilbraham (W)

## FY 2018 MWRA Assessments

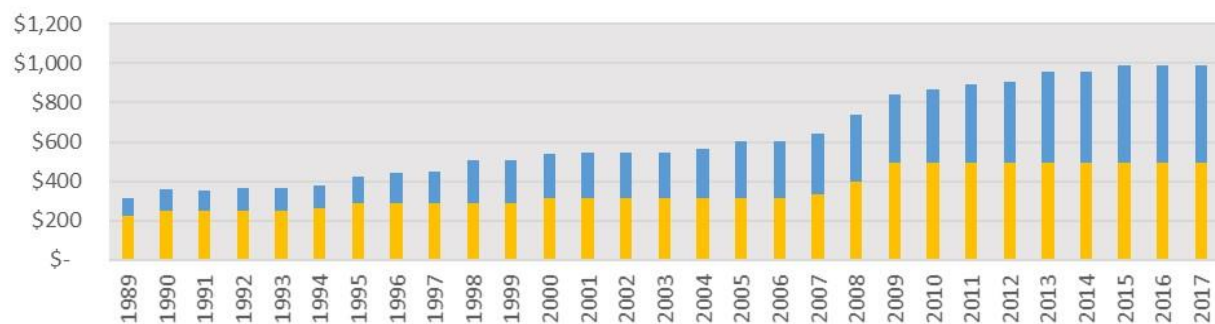
	FY17	FY18	% Change
<b>Water</b>	\$781,288	\$792,374	1.40%
<b>Sewer</b>	N/A	N/A	N/A
<b>Combined</b>	\$781,288	\$792,374	1.40%



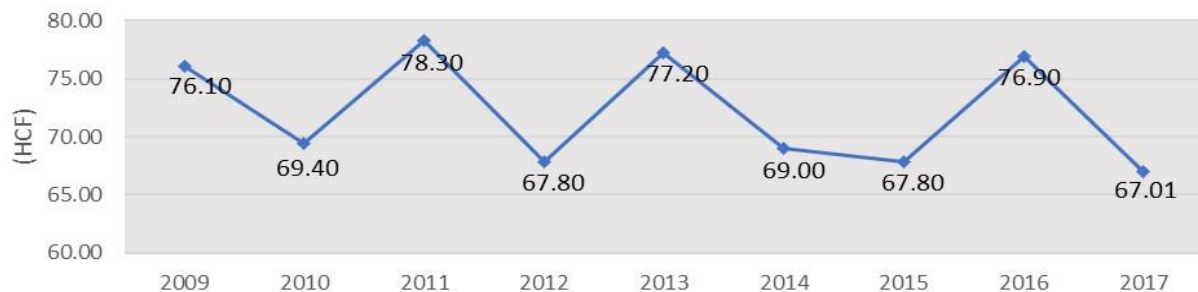
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Wilmington (S/partial W)

## Residential Water Rates:

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue

0 – 10 HCF \$3.64/HCF  
 >10 – 20 HCF \$4.03 "  
 >20 – 30 HCF \$4.84 "  
 >30 HCF \$6.46 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: General

All units \$5.60/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$500.40	3.05%
Sewer	\$672.00	8.95%
<b>Combined</b>	<b>\$1,172.40</b>	<b>6.35%</b>

## Annual Cost Based on Local, State & Federal Data

(85.6 HCF – See Appendix C  
for Data & Calc.)

Water	\$333.90
Sewer	\$479.36
<b>Combined</b>	<b>\$813.26</b>

## Commercial Water Rates:

0 – 50 HCF \$3.86/HCF  
 >50 – 200 HCF \$4.13 "  
 >200 HCF \$4.51 "

## Commercial Sewer Rates:

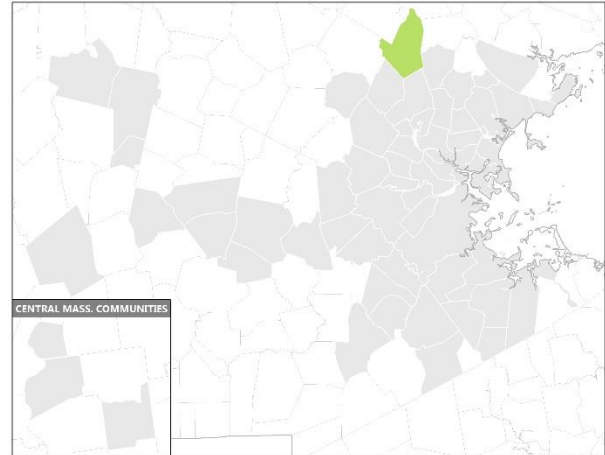
All units \$6.15/HCF

## Additional 2017 Data by Community

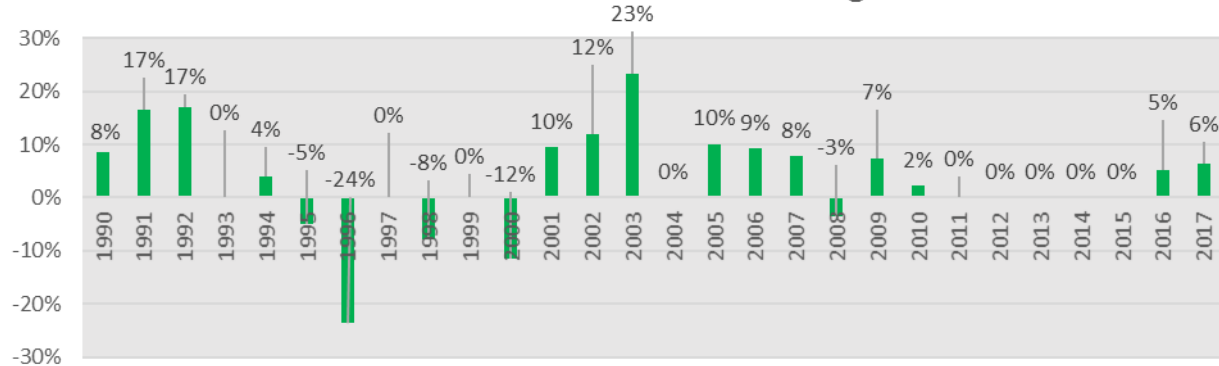
Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	No
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	0-25%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Operating Budget / Tax Levy	

# Wilmington (S/partial W)

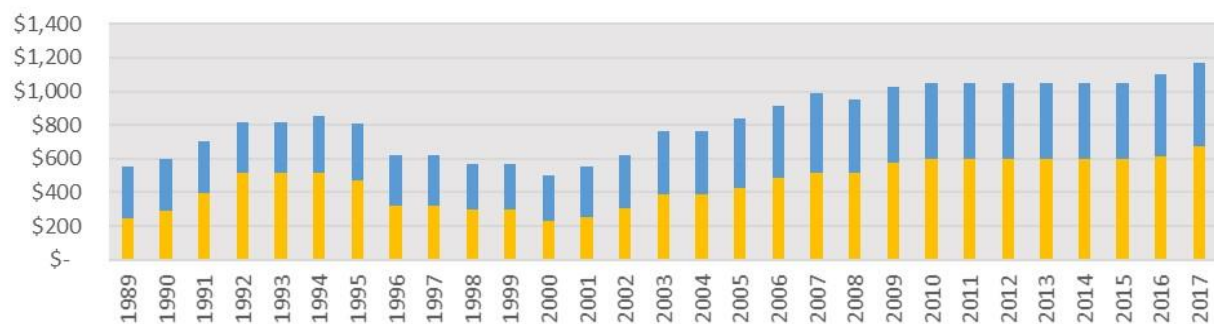
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$703,075	\$776,226	10.40%
<b>Sewer</b>	\$2,595,601	\$2,804,912	8.10%
<b>Combined</b>	\$3,298,676	\$3,581,138	8.60%



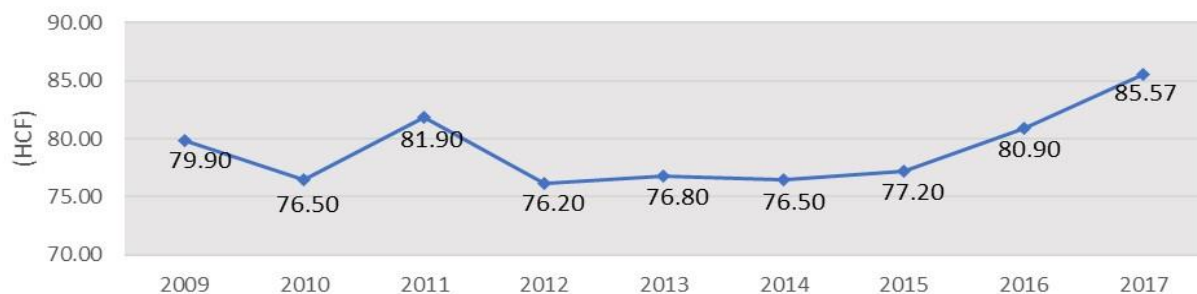
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Winchester (S/ partial W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Service charge \$5.00/bill  
 0 – 15 HCF \$1.35/HCF  
 >15 – 45 HCF \$3.36 "  
 >45 HCF \$5.26 "

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 15 HCF \$1.38/HCF  
 >15 – 45 HCF \$4.38 "  
 >45 HCF \$6.66 "

Based on 100% of water usage.

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2016
Water	\$302.60	2.02%
Sewer	\$345.60	2.13%
<b>Combined</b>	<b>\$648.20</b>	<b>2.08%</b>

## Annual Cost Based on Local, State & Federal Data

(101.4 HCF – See Appendix C  
for Data & Calc.)

Water	\$239.43
Sewer	\$263.26
<b>Combined</b>	<b>\$502.69</b>

- ♦ Winchester utilizes the debt service exclusion as permitted under General Law 59 Section 21C(n)

## Commercial Water Rates:

0 – 75 HCF \$5.32/HCF  
 >75 HCF \$6.52 "

## Commercial Sewer Rates:

0 – 75 HCF \$6.94/HCF  
 >75 HCF \$9.42 "

## Additional 2017 Data by Community

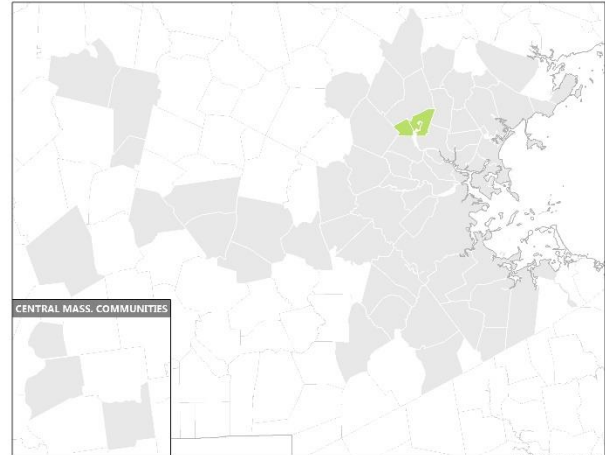
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? Yes, Low Income Discounts?	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY17	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY17	Less than 1
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	



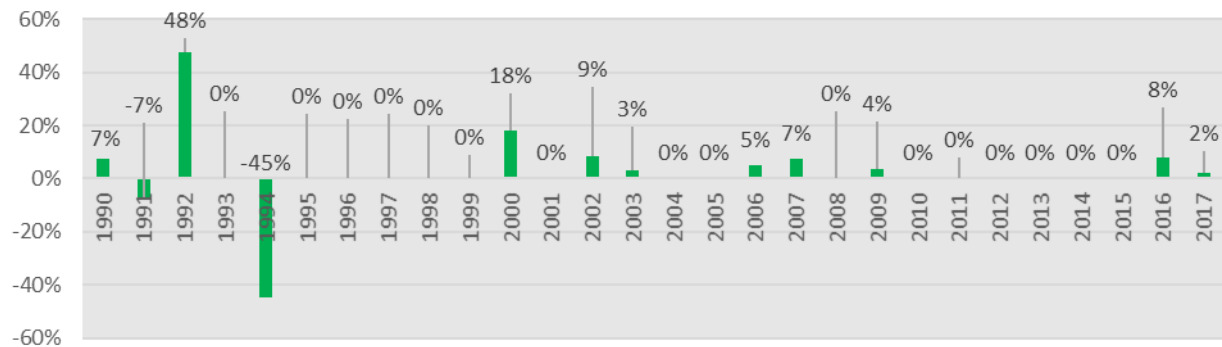
# Winchester (S/ partial W)

## FY 2018 MWRA Assessments

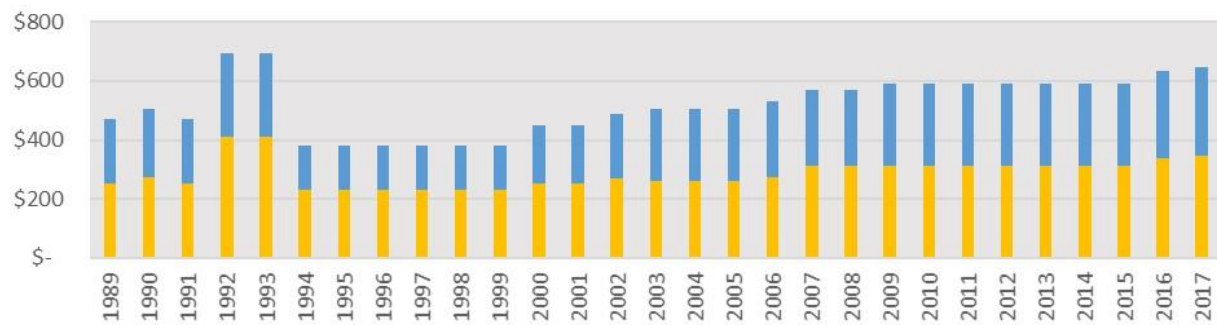
	FY17	FY18	% Change
<b>Water</b>	\$1,544,349	\$2,121,826	37.40%
<b>Sewer</b>	\$4,033,770	\$4,144,555	2.70%
<b>Combined</b>	\$5,578,119	\$6,266,381	12.30%



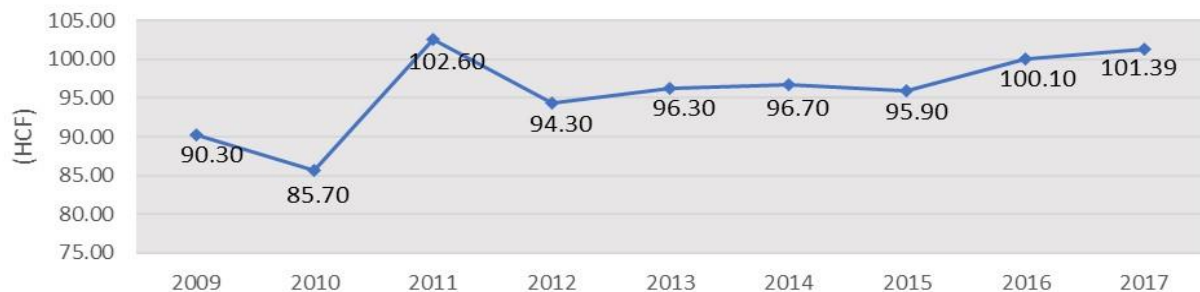
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017





# Winthrop (W/S)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge \$20.40/quarter  
 All units \$ 6.50/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge \$29.60/quarter  
 All units \$ 9.90/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$780.00	0.00%
Sewer	\$1,188.00	0.00%
<b>Combined</b>	<b>\$1,968.00</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(60.5 HCF – See Appendix C  
for Data & Calc.)

Water	\$392.60
Sewer	\$597.96
<b>Combined</b>	<b>\$990.56</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

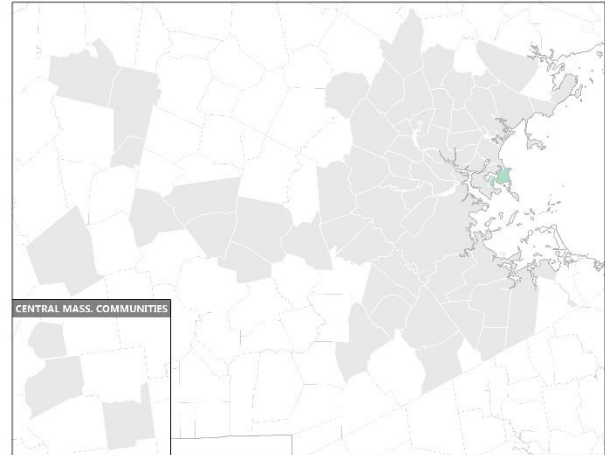
Same as residential

### Additional 2017 Data by Community

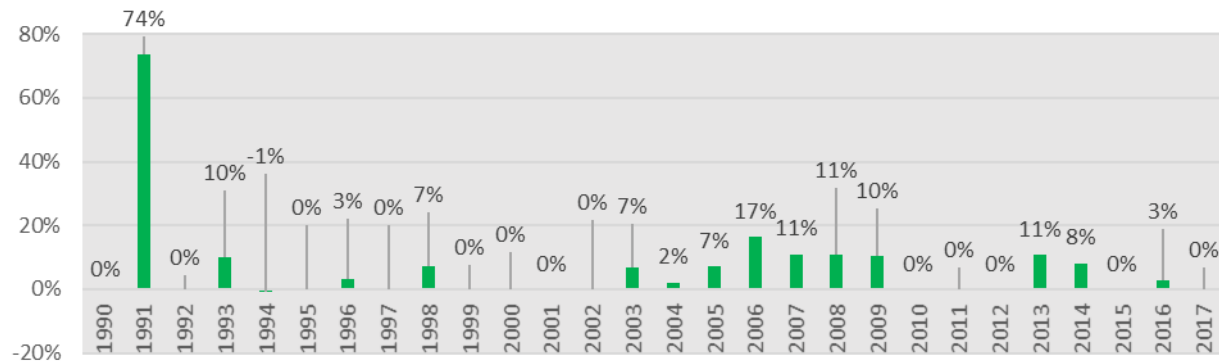
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? No	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Winthrop (W/S)

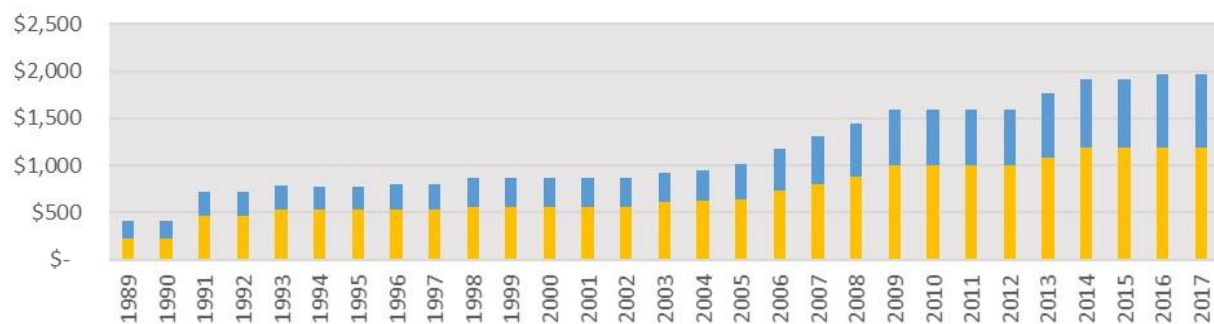
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$1,643,615	\$1,615,822	-1.70%
<b>Sewer</b>	\$3,320,069	\$3,395,228	2.30%
<b>Combined</b>	\$4,963,684	\$5,011,050	1.00%



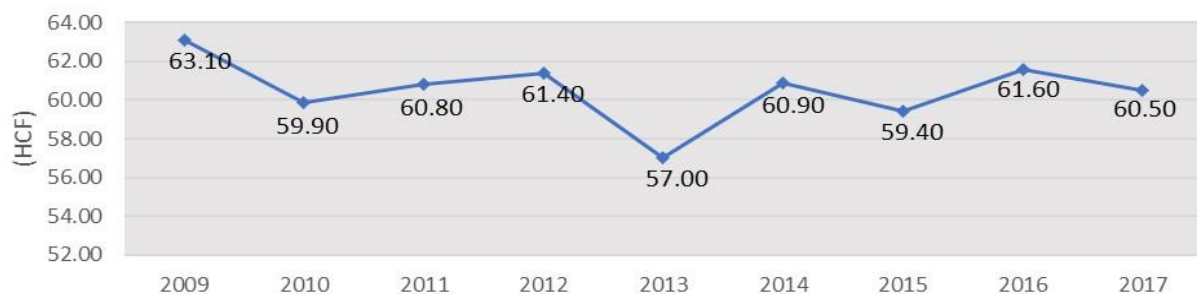
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Woburn (S/ partial W)

## Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Flat rate of \$102.50 per bill

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Flat rate of \$102.50 per bill

Billing Frequency: Semi-Annually

### Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$205.00	0.00%
Sewer	\$328.00	0.00%
<b>Combined</b>	<b>\$533.00</b>	<b>0.00%</b>

### Annual Cost Based on Local, State & Federal Data

(112.7 HCF – See Appendix C  
for Data & Calc.)

Water	\$205.00
Sewer	\$328.00
<b>Combined</b>	<b>\$533.00</b>

## Commercial Water Rates:

All units \$ 4.60/HCF  
 Commercial Minimum: \$4.60/HCF

## Commercial Sewer Rates:

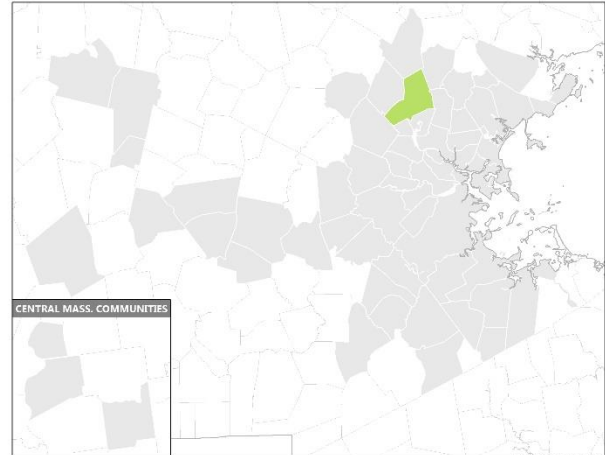
All units 304% of water bill  
 Commercial Minimum: \$344.15

### Additional 2017 Data by Community

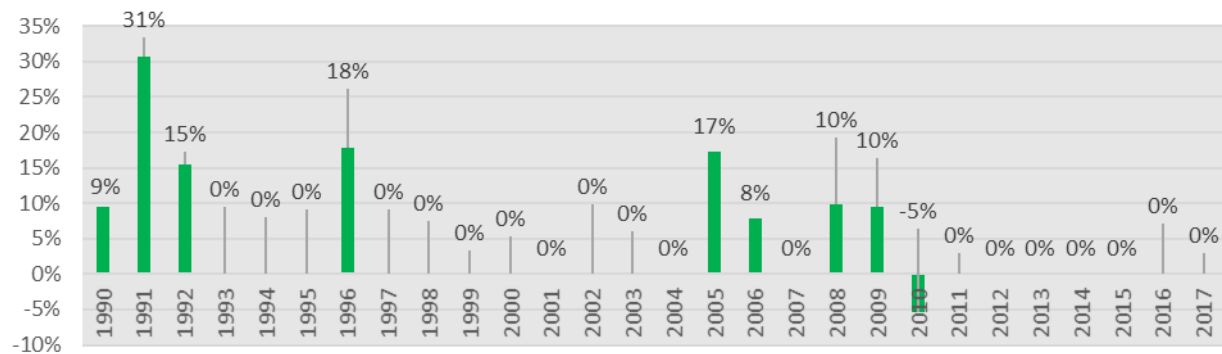
Does this Community Use Second Meters? No		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY17	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY17	1 – 3
Water Capital Needs over Next Five Years	\$0 – 10 million	Sewer Capital Needs over Next Five Years	\$0 – 10 million
Anticipated Water Capital Spending over Next Five Years	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1-5 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

# Woburn (S/ partial W)

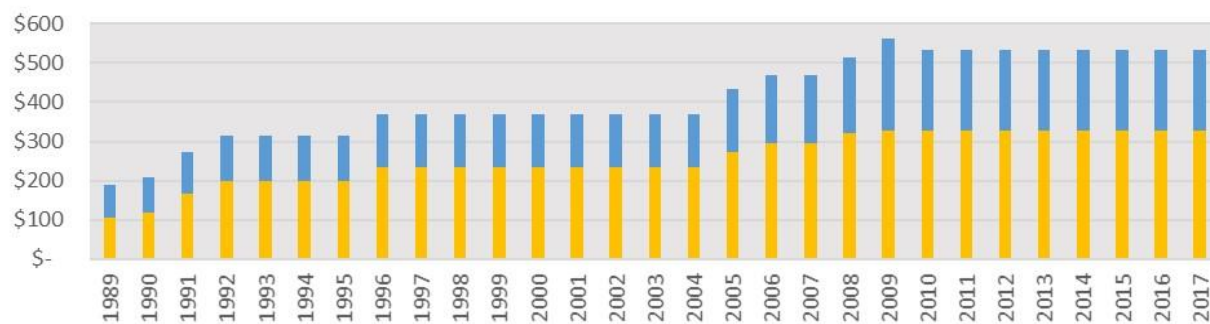
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$3,355,306	\$3,636,173	8.40%
<b>Sewer</b>	\$9,324,662	\$9,449,446	1.30%
<b>Combined</b>	\$12,679,968	\$13,085,619	3.20%



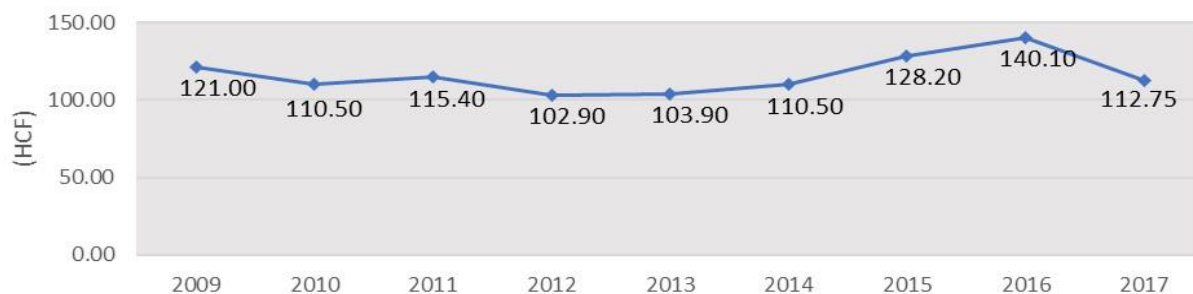
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017



### Average Household Water Use 2009 through 2017



# Worcester (partial W)

## Residential Water Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Minimum charge \$4.50/quarter  
 All units \$3.67/HCF

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Minimum charge \$10.00/quarter  
 All units \$7.08/HCF

Based on 80% of water usage.  
 (For meters 1" and larger, sewer usage is based upon 100% of water usage)

Billing Frequency: Quarterly

## Annual Cost AWWA Standard for Historical Comparison

(120 HCF  $\approx$  90,000 gals.)

Utility	Rate	Change from 2016
Water	\$440.40	1.94%
Sewer	\$679.68	6.95%
<b>Combined</b>	<b>\$1,120.08</b>	<b>4.92%</b>

## Annual Cost Based on Local, State & Federal Data

(62.1 HCF – See Appendix C  
for Data & Calc.)

Water	\$227.54
Sewer	\$351.17
<b>Combined</b>	<b>\$578.71</b>

## Commercial Water Rates:

Same as residential

## Commercial Sewer Rates:

Same as residential

## Additional 2017 Data by Community

Does this Community Use Second Meters? Yes		Does this Community Offer Senior and/or Low Income Discounts? Yes, Senior	
<b>Water System</b>		<b>Sewer System</b>	
MWRA Charges as % of Total Community Water Expenses	0-25%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY17	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY17	3 – 6
Water Capital Needs over Next Five Years	Over \$50 million	Sewer Capital Needs over Next Five Years	Over \$50 million
Anticipated Water Capital Spending over Next Five Years	Over \$10 million	Anticipated Sewer Capital Spending over Next Five Years	Over \$10 million
<b>Stormwater</b>			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

# Worcester (partial W)

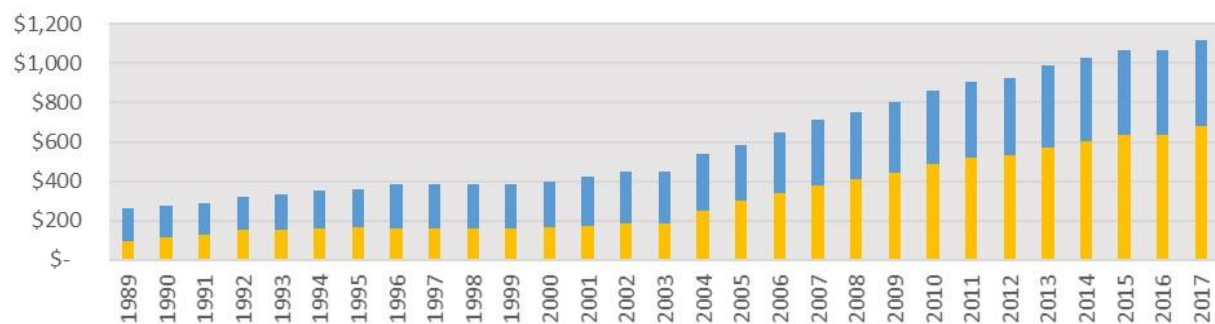
<b>FY 2018 MWRA Assessments</b>			
	<b>FY17</b>	<b>FY18</b>	<b>% Change</b>
<b>Water</b>	\$0	\$0	0.00%
<b>Sewer</b>	\$0	\$0	0.00%
<b>Combined</b>	\$0	\$0	0.00%



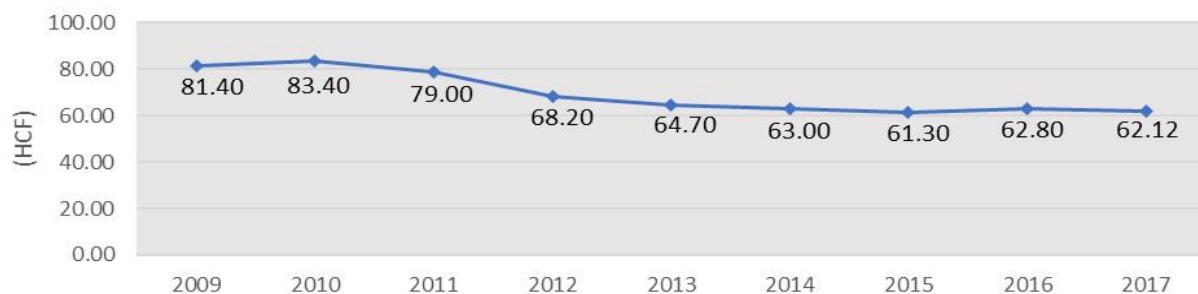
### Combined Rate Increases 1990 through 2017



### Combined Water and Sewer Rates 1989 through 2017

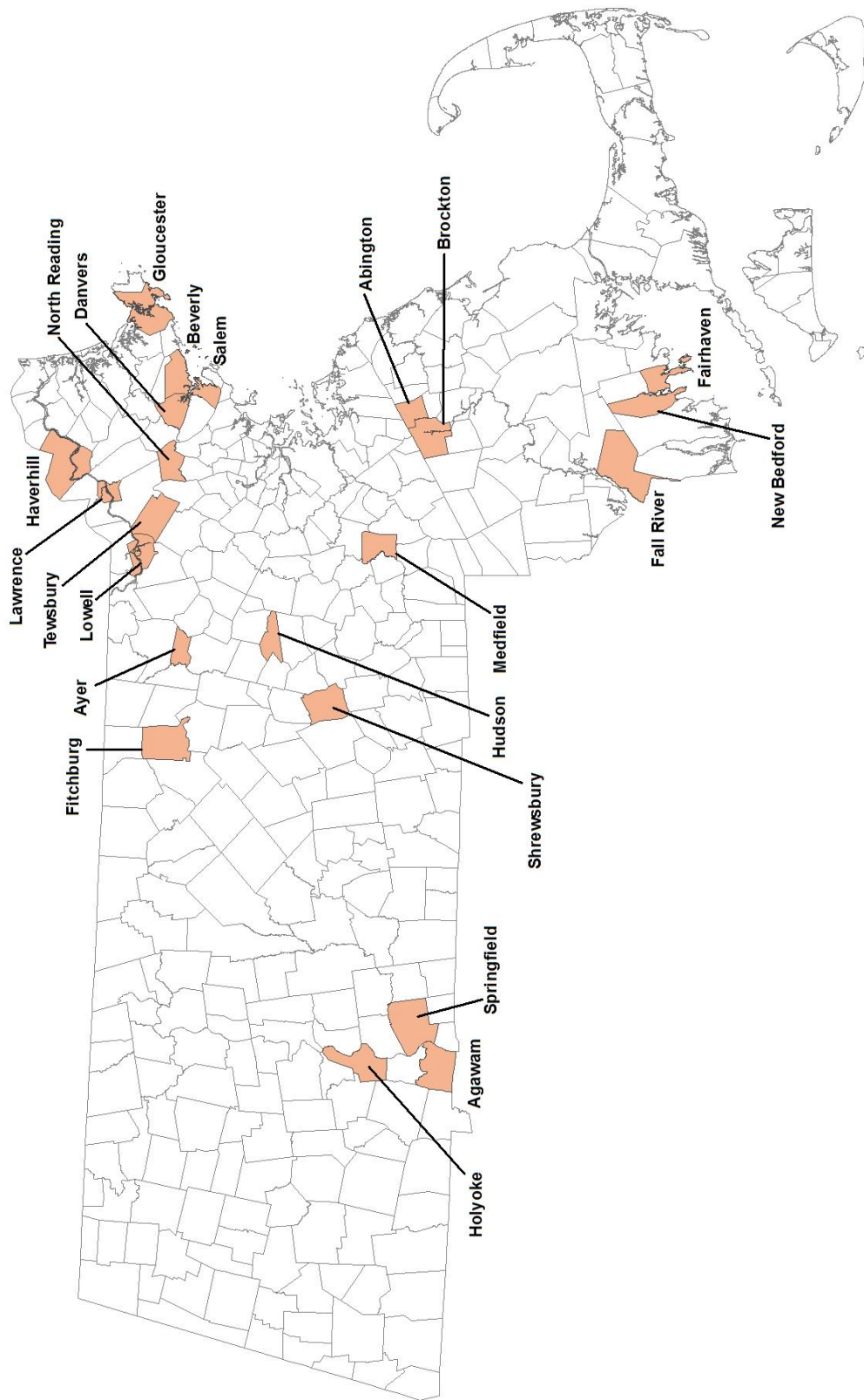


### Average Household Water Use 2009 through 2017





# SELECT NON-MWRA MASSACHUSETTS COMMUNITIES 2017 WATER AND SEWER CHARGES



map228-2



### COMPARATIVE ANNUAL RESIDENTIAL WATER AND SEWER CHARGES FOR SELECTED NON-MWRA COMMUNITIES IN MASSACHUSETTS 2017

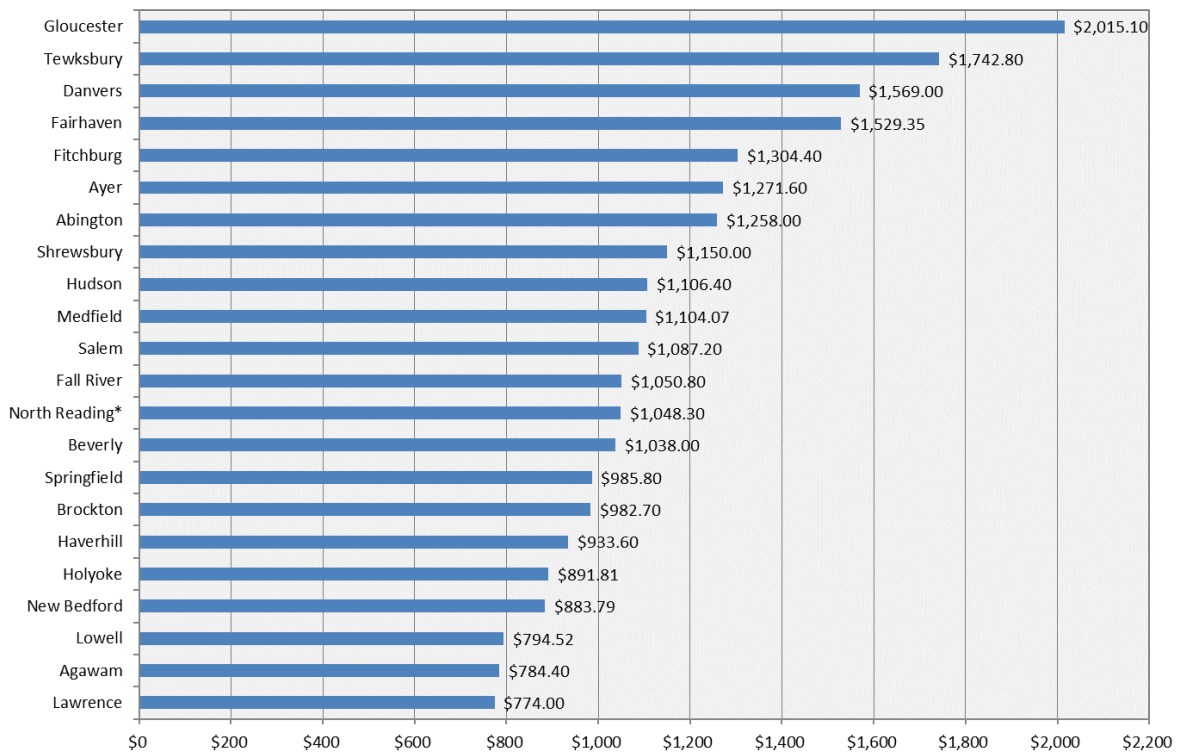
	Water	Sewer	Combined	Change
Abington	\$618.00	\$640.00	\$1,258.00	0.0%
Agawam	\$317.20	\$467.20	\$784.40	13.1%
Ayer	\$342.40	\$929.20	\$1,271.60	2.4%
Beverly	\$364.80	\$673.20	\$1,038.00	-0.6%
Brockton	\$536.70	\$446.00	\$982.70	5.2%
Danvers	\$767.40	\$801.60	\$1,569.00	1.6%
Fairhaven	\$681.35	\$848.00	\$1,529.35	1.6%
Fall River	\$411.20	\$639.60	\$1,050.80	2.4%
Fitchburg	\$465.00	\$839.40	\$1,304.40	2.7%
Gloucester	\$710.10	\$1,305.00	\$2,015.10	0.0%
Haverhill	\$348.00	\$585.60	\$933.60	10.0%
Holyoke	\$405.81	\$486.00	\$891.81	2.1%
Hudson	\$471.60	\$634.80	\$1,106.40	0.0%
Lawrence	\$372.00	\$402.00	\$774.00	0.0%
Lowell	\$249.12	\$545.40	\$794.52	15.5%
Medfield	\$455.58	\$648.49	\$1,104.07	2.8%
New Bedford	\$304.05	\$579.74	\$883.79	2.1%
North Reading	\$1,048.30	Not Sewered	\$1,048.30	32.6%
Salem	\$357.60	\$729.60	\$1,087.20	0.0%
Shrewsbury	\$355.00	\$795.00	\$1,150.00	0.0%
Springfield	\$394.20	\$591.60	\$985.80	4.3%
Tewksbury	\$893.98	\$848.82	\$1,742.80	0.3%
<b>AVERAGE</b>	<b>\$494.06</b>	<b>\$687.44</b>	<b>\$1,181.50</b>	<b>3.4%</b>

Water and sewer charges based on an annual water consumption of 120 HCF  $\approx$  90 kgal

Average does not include unavailable data or non-sewered communities.

### COMPARATIVE CHART OF RESIDENTIAL COMBINED WATER AND SEWER CHARGES 2017

\*Community does not offer municipal sewer services, only water rate is reflected.



## Abington

**Residential Water Rates:**

Last adjusted: December 2012  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue

Base charge \$42.00/bill  
 All units \$ 3.75/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: October 2009  
 Next adjustment scheduled: No response  
 Fund: Enterprise

Minimum Charge \$10.00/bill  
 0 – 30 HCF \$ 5.00/HCF  
 >30 HCF \$ 7.00 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$618.00
Sewer	\$640.00
Combined	\$1,258.00
% change from 2016	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Agawam

**Residential Water Rates:**

Last adjusted: September 2014  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Annual service charge \$70.00  
 0 – 40 CF \$ 1.90/HCF  
 >40 CF \$ 2.38 "

Billing Frequency: Semi-Annually

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Annual minimum charge \$36.50  
 All units \$ 3.65/HCF  
 Based on 90% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$317.20
Sewer	\$467.20
Combined	\$784.40
% change from 2016	13.1%

**Commercial Water Rates:**

Annual service charge \$70.00  
 All units \$ 2.38/HCF

Senior and/or Low Income Discounts: Yes

**Commercial Sewer Rates:**

Same as residential except sewer usage is based on 100% of water usage.

## Ayer

**Residential Water Rates:**

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Minimum charge \$10.00  
 0 – 60 HCF \$ 2.52/HCF  
 >60 – 120 HCF \$ 3.12 "  
 >120 HCF \$ 3.69 "

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Minimum charge \$10.00  
 0 – 60 HCF \$ 7.41/HCF  
 >60 – 120 HCF \$ 8.49 "  
 >120 HCF \$ 9.66 "

Based on 100% of water usage.

Billing Frequency: Residential: Semi-Annually, Commercial: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)
--

Water	\$342.40
Sewer	\$929.20
Combined	\$1,271.60
% change from 2016	2.4%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: No response

## Beverly

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: No response  
 Fund: Enterprise

All units \$3.56/HCF

**Residential Sewer Rates:**

Last adjusted: July 2015  
 Next adjustment scheduled: No response  
 Fund: Enterprise

All units \$5.61/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)
--

Water	\$364.80
Sewer	\$673.20
Combined	\$1,038.00
% change from 2016	-0.6%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## Brockton

**Residential Water Rates:**

Last adjusted: January 2017  
 Next adjustment scheduled: January 2018  
 Fund: Enterprise

Minimum charge (% meter)	\$27.15/bill
0 – 12.5 HCF	\$ 3.62/HCF
>12 – 25 HCF	\$ 4.61 "
>25 – 50 HCF	\$ 6.26 "
>50 – 100 HCF	\$ 6.80 "
>100 – 250 HCF	\$ 7.11 "
>250	\$ 7.39 "

**Residential Sewer Rates:**

Last adjusted: January 2015  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 12.5 HCF	\$ 2.93/HCF
>12 – 25 HCF	\$ 3.91 "
>25 – 50 HCF	\$ 5.20 "
>50 – 100 HCF	\$ 6.91 "
>100 – 250 HCF	\$ 9.22 "
>250 – 8750 HCF	\$12.23 "
>8750 HCF	\$16.26 "

Based on 100% of water usage.

Billing Frequency: Residential: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$536.70
Sewer	\$446.00
Combined	\$982.70
% change from 2016	5.2%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## Danvers

**Residential Water Rates:**

Last adjusted: June 2017  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

Base Charge	\$11.25/bill
0 – 20 HCF	\$ 5.78/HCF
>20 – 24 HCF	\$ 6.50 "
>24 HCF	\$ 8.33 "

**Residential Sewer Rates:**

Last adjusted: June 2016  
 Next adjustment scheduled: June 2017  
 Fund: Enterprise

0 – 20 HCF	\$ 6.59/HCF
>20 – 24 HCF	\$ 6.86 "
>24 HCF	\$ 8.25 "

Based on 100% of water usage.

Billing Frequency: Residential: Quarterly Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$767.40
Sewer	\$801.60
Combined	\$1,569.00
% change from 2016	1.6%

**Commercial Water Rates:**

0 – 40 HCF \$5.71/HCF  
 >40 HCF \$6.42 "

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

0 – 40 HCF \$6.46/HCF  
 >40 HCF \$6.73 "

## Fairhaven

**Residential Water Rates:**

Last adjusted: April 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base Charge \$55.00/bill  
 0 – 22.5 HCF \$ 2.09/HCF  
 >22.5 – 45 HCF \$ 5.12 "  
 >45 HCF \$ 8.23

**Residential Sewer Rates:**

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base Charge \$25.00/bill  
 All units \$6.65/HCF

Based on 100% of water usage.

Billing Frequency: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$681.35
Sewer	\$848.00
Combined	\$1,529.35
% change from 2016	1.6%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Fall River

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Service connection fee (¾" meter) \$14.00/quarter  
 All units \$ 2.96/HCF

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

All units \$ 5.33/HCF

Billing Frequency: Quarterly

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$411.20
Sewer	\$639.60
Combined	\$1,050.80
% change from 2016	2.4%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

Stormwater Fee: \$43.00/quarter (not included in sewer calculation)

**Commercial Sewer Rates:**

Same as residential

## Fitchburg

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

Base charge includes 5 HCF \$ 6.75/bill  
 >5 HCF \$ 4.00/HCF

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum includes 3 HCF \$18.85/bill  
 >3HCF \$ 7.30/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
--	--

Water	\$465.00
Sewer	\$839.40
Combined	\$1,304.40
% change from 2010	2.7%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

- If sewer usage exceeds minimum charge, the unit charge is applied to the full usage.

## Gloucester

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$7.89/kgal

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

All units \$14.20/kgal  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
--	--

Water	\$710.10
Sewer	\$1,305.00
Combined	\$2,015.10
% change from 2016	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Haverhill

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise  
 All units \$2.90/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise  
 All units \$4.88/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
--	--

Water	\$348.00
Sewer	\$585.60
Combined	\$933.60
% change from 2016	10.0%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: 15% discount on both water and sewer for low income senior citizens over 65 years old

## Holyoke

**Residential Water Rates:**

Last adjusted: November 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise  
 Minimum charge includes first 10,000 gallons \$45.09/bill  
 >10,000 gallons \$ 4.509/kgal

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: November 2008  
 Next adjustment scheduled: No response  
 Fund: Enterprise  
 Base charge \$5.00/bill  
 All units \$5.40/kgal  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
--	--

Water	\$405.81
Sewer	\$486.00
Combined	\$891.81
% change from 2016	2.1%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Two entities are provided with a commercial rate

Senior and/or Low Income Discounts: None

- 2016 water rate change released after publication of the 2016 Water and Sewer Retail Rate Survey



## Hudson

**Residential Water Rates:**

Last adjusted: July 2013  
 Next adjustment scheduled: No Response  
 Fund: General

Minimum charge \$14.68  
 >0 – 15 HCF \$ 3.67/kgal  
 >15 – 30 HCF \$ 4.19 "  
 >30 – 50 HCF \$ 4.26 "  
 >50 – 150 HCF \$ 4.33 "  
 >150 HCF \$ 4.41 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2013  
 Next adjustment scheduled: No Response  
 Fund: General

Minimum charge includes 4 HCF \$21.16/bill  
 All units \$ 5.26/kgal  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$471.60
Sewer	\$634.80
Combined	\$1,106.40
% change from 2016	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Lawrence

**Residential Water Rates:**

Last adjusted: July 2009  
 Next adjustment scheduled: No response  
 Fund: Enterprise  
 All units \$3.10/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2009  
 Next adjustment scheduled: No response  
 Fund: Enterprise  
 All units \$3.35/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$372.00
Sewer	\$402.00
Combined	\$774.00
% change from 2016	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Lowell

**Residential Water Rates:**

Last adjusted: April 2011  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 50 HCF	\$2.076/HCF
>50 – 100 HCF	\$2.451 "
>100 – 200 HCF	\$2.490 "
>200 – 500 HCF	\$2.527 "
>500 HCF	\$2.547 "

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 50 HCF	\$4.545/HCF
>50 – 100 HCF	\$4.799 "
>100 – 200 HCF	\$4.873 "
>200 – 500 HCF	\$4.954 "
>500 HCF	\$5.027 "

Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$249.12
Sewer	\$545.40
Combined	\$794.52
% change from 2016	15.5%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: Yes, senior citizen discount for water

## Medfield

**Residential Water Rates:**

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill includes 10,000 gals.  
 \$49.39/bill  
 >10 – 35 kgal \$ 4.36/kgal  
 >35 – 70 kgal \$ 6.94 "  
 >70 kgal \$ 9.45 "

**Residential Sewer Rates:**

Last adjusted: April 2017  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill includes 10,000 gals.  
 \$87.47/bill  
 >10 kgal \$ 9.02/kgal

Based on 75% of water usage.

Billing Frequency: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$455.58
Sewer	\$648.49
Combined	\$1,104.07
% change from 2016	2.8%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## New Bedford

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

Base charge \$32.23/year  
 Meter rental fee (5/8" meter) \$11.42/year  
 All units \$ 2.17/HCF

**Residential Sewer Rates:**

Last adjusted: June 2017  
 Next adjustment scheduled: June 2018  
 Fund: Enterprise

Base charge \$81.74/year  
 All units \$ 4.15/HCF

Based on 100% of water usage.

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$304.05
Sewer	\$579.74
Combined	\$883.79
% change from 2016	2.1%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## North Reading

**Residential Water Rates:**

Last adjusted: July 2016  
 Next adjustment scheduled: No Response  
 Fund: Enterprise

Base Charge (5/8" meter) \$ 5.00/bill  
 0 – 10 kgal \$ 9.07/kgal  
 >10 – 22.5 kgal \$13.31/ "  
 >22.5 kgal \$18.14/ "  
 Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: Not applicable  
 Next adjustment scheduled: Not applicable  
 Fund: Not applicable

Community not sewered.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$1,048.30
Sewer	Not sewered
Combined	\$1,048.30
% change from 2016	32.6%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: Neither

## Salem

**Residential Water Rates:**

Last adjusted: August 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum bill (5/8" meter) \$29.80  
 All units \$ 2.98/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: August 2016  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

All units \$6.08/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$357.60
Sewer	\$729.60
Combined	\$1,087.20
% change from 2016	0.0%

**Commercial Water Rates:**

All units \$4.04/HCF

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

0 – 250 HCF/month \$ 9.21/HCF  
 >250 HCF/month \$11.79/HCF

- The rates cited above exclude a 10% discount for all residential water (not sewer) bills paid within 20 days of the bill date.

## Shrewsbury

**Residential Water Rates:**

Last adjusted: November 2012  
 Next adjustment scheduled: Unknown  
 Fund: No Response

Minimum bill includes 5 kgal \$24.00/bill  
 >5 – 25 kgal \$ 3.70/kgal  
 >25 – 60 kgal \$ 6.90/ "  
 >60 kgal \$14.00/ "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: January 2016  
 Next adjustment scheduled: Unknown  
 Fund: No Response

Base charge \$30.00/bill  
 All units \$ 7.50/kgal

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
--	--

Water	\$355.00
Sewer	\$795.00
Combined	\$1,150.00
% change from 2016	0.0%

**Commercial Water Rates:**

Minimum includes 5 kgal \$40.00/bill  
 5 – 25 kgal \$ 3.30/kgal  
 >25 kgal \$ 4.30/ "

**Commercial Sewer Rates:**

Base charge \$30.00/bill  
 All units \$ 9.30/kgal

Senior and/or Low Income Discounts: No response

## Springfield

**Residential Water Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Chapter 40N

Service charge (5/8" meter) \$2.75/month  
 All units \$3.01/HCF

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: July 2017  
 Next adjustment scheduled: July 2018  
 Fund: Chapter 40N

All units \$4.93/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
--	--

Water	\$394.20
Sewer	\$591.60
Combined	\$985.80
% change from 2016	4.3%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

All units \$5.42/HCF

Senior and/or Low Income Discounts: \$2.50/month discount for senior citizens, disabled or legally blind persons

## Tewksbury

**Residential Water Rates:**

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

1 – 34 kgal/year \$ 7.29/kgal  
 >34 – 70 kgal/year \$10.31 "  
 >70 – 140 kgal/year \$13.71 "  
 >140 kgal/year \$17.13 "

Billing Frequency: Tri-annually

**Residential Sewer Rates:**

Last adjusted: July 2016  
 Next adjustment scheduled: July 2018  
 Fund: Enterprise

1 – 34 kgal/year \$ 7.23/kgal  
 >34 – 70 kgal/year \$ 9.31 "  
 >70 – 140 kgal/year \$13.20 "  
 >140 kgal/year \$15.44 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
--	--

Water	\$893.98
Sewer	\$848.82
Combined	\$1,742.80
% change from 2016	0.3%

**Commercial Water Rates:**

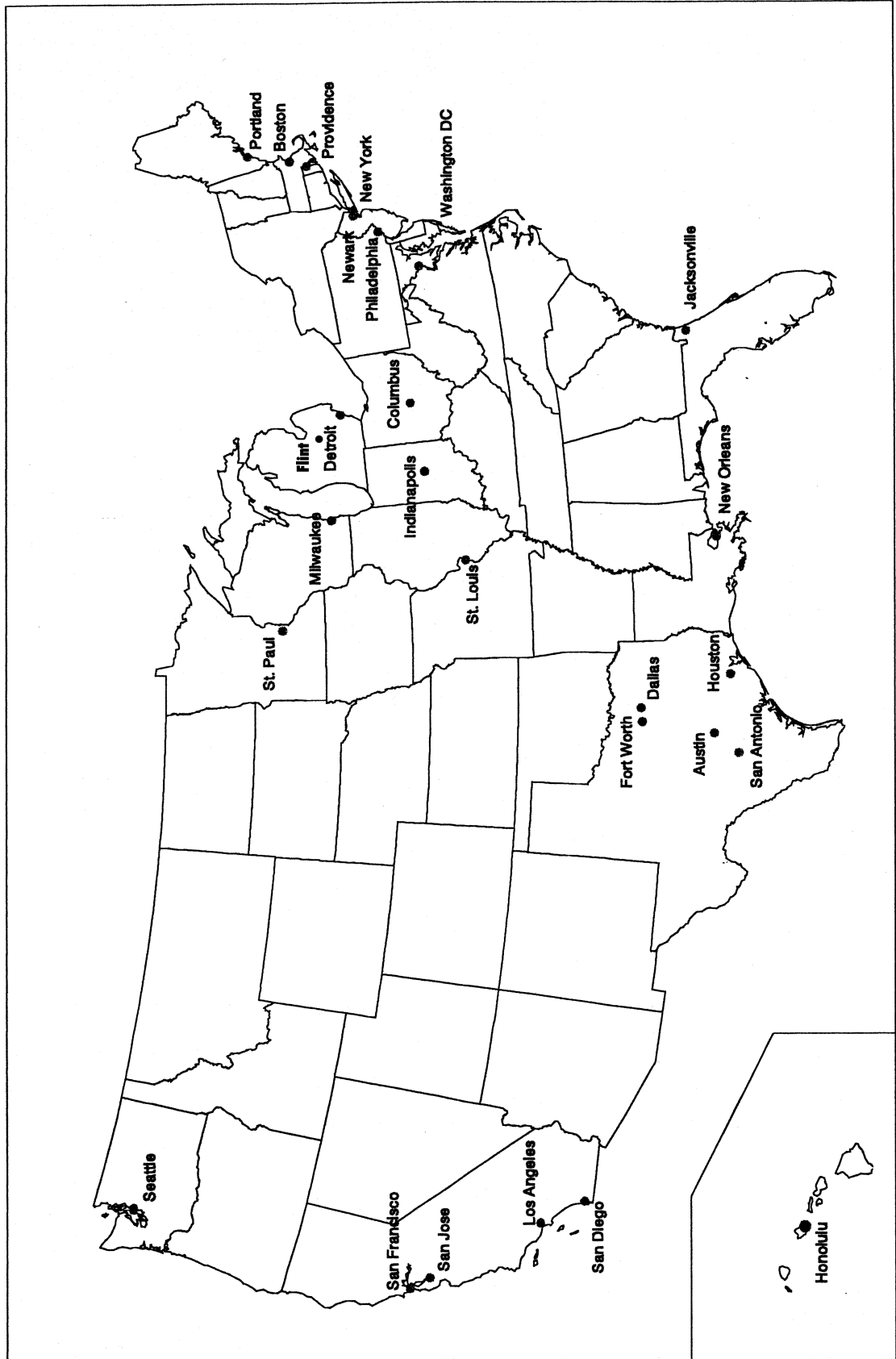
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

# COMPARATIVE RESIDENTIAL 2017 WATER AND SEWER CHARGES FOR U.S. CITIES

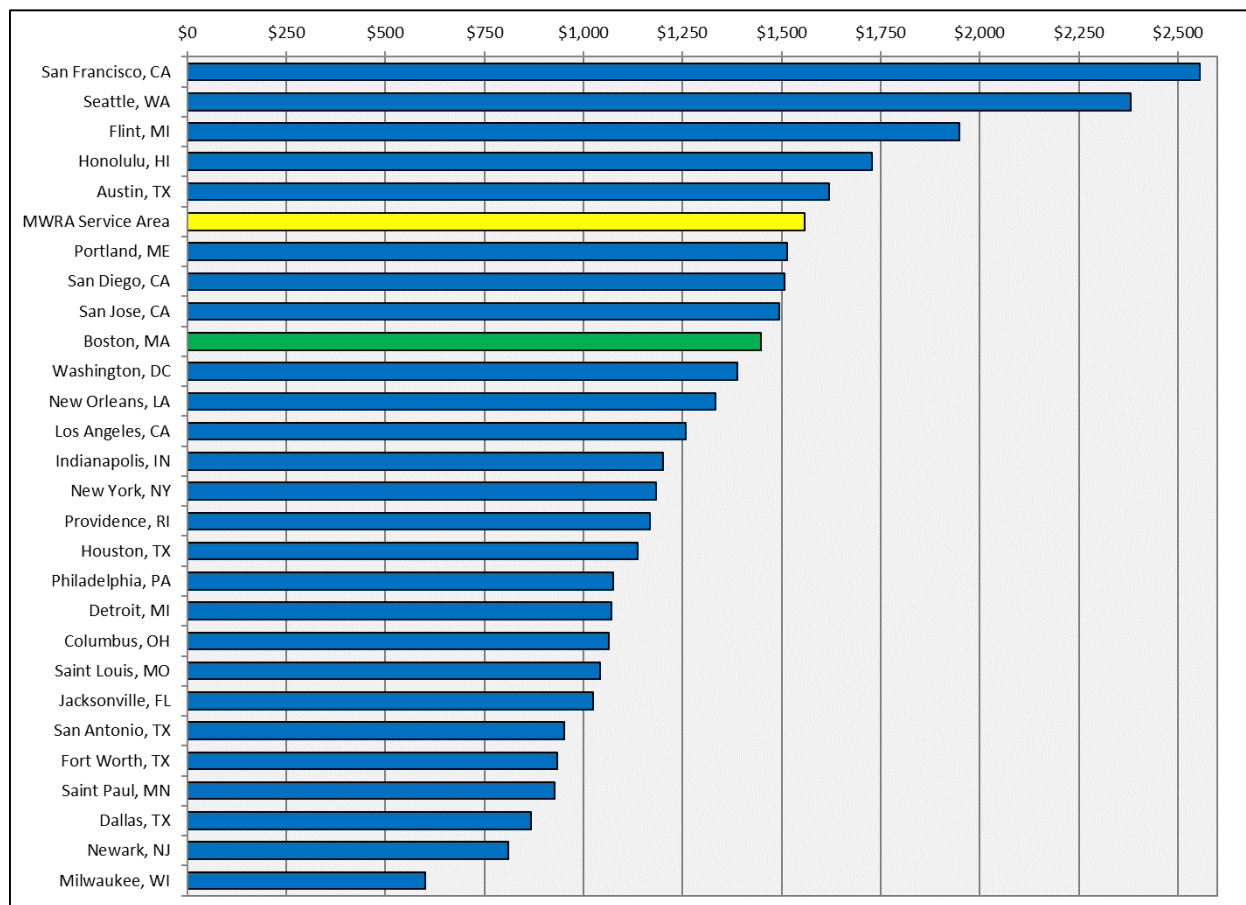


**COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES FOR  
MAJOR UNITED STATES CITIES  
2017**

	Water	Sewer	Combined	Change
Austin, TX	\$686.10	\$933.90	\$1,620.00	4.2%
Boston, MA	\$604.01	\$844.67	\$1,448.68	2.5%
Columbus, OH	\$515.32	\$547.60	\$1,062.92	3.1%
Dallas, TX	\$332.70	\$534.30	\$867.00	0.0%
Detroit, MI	\$369.36	\$700.92	\$1,070.28	1.4%
Flint, MI	\$1,017.60	\$930.96	\$1,948.56	0.0%
Fort Worth, TX	\$422.28	\$512.40	\$934.68	2.3%
Honolulu, HI	\$464.28	\$1,263.96	\$1,728.24	0.0%
Houston, TX	\$495.30	\$641.46	\$1,136.76	2.2%
Indianapolis, IN	\$544.99	\$656.36	\$1,201.35	0.0%
Jacksonville, FL	\$337.93	\$686.54	\$1,024.46	0.0%
Los Angeles, CA	\$692.64	\$564.48	\$1,257.12	15.5%
Milwaukee, WI	\$348.16	\$252.84	\$601.00	3.1%
MWRA Service Area	\$605.08	\$953.38	\$1,558.47	2.2%
New Orleans, LA	\$635.10	\$697.41	\$1,332.51	8.0%
New York, NY	\$457.20	\$726.95	\$1,184.15	0.0%
Newark, NJ	\$352.44	\$457.06	\$809.50	0.0%
Philadelphia, PA	\$596.28	\$478.44	\$1,074.72	4.9%
Portland, ME	\$355.56	\$1,158.00	\$1,513.56	13.3%
Providence, RI	\$525.29	\$641.72	\$1,167.01	5.9%
Saint Louis, MO	\$307.76	\$734.64	\$1,042.40	7.2%
Saint Paul, MN	\$419.16	\$508.80	\$927.96	6.1%
San Antonio, TX	\$504.72	\$447.00	\$951.72	21.8%
San Diego, CA	\$913.51	\$594.17	\$1,507.68	1.7%
San Francisco, CA	\$1,068.36	\$1,488.00	\$2,556.36	8.4%
San Jose, CA	\$1,038.68	\$454.92	\$1,493.60	5.6%
Seattle, WA	\$830.40	\$1,551.60	\$2,382.00	4.5%
Washington, DC	\$600.44	\$787.72	\$1,388.16	4.3%
<b>AVERAGE</b>	<b>\$572.88</b>	<b>\$741.08</b>	<b>\$1,313.96</b>	<b>4.4%</b>

Water and sewer charges based on an annual water consumption of 120 HCF  $\approx$  90 ggal

Note: MWRA Service Area averages exclude non-sewered communities.





# Austin, Texas

## Residential Water Rates:

Last adjusted:	November 2016
Fund:	Enterprise
Base charge (5/8" meter)	\$ 7.10/month
0 – 2 kgal	\$ 3.18/kgal
2 – 6 kgal	\$ 5.05 "
6 – 11 kgal	\$ 8.56 "
11 – 20 kgal	\$12.92 "
>20 kgal	\$14.43 "

Next adjustment scheduled:	January 2019
Billing Frequency:	Monthly

## Residential Sewer Rates:

Last adjusted:	November 2016
Fund:	Enterprise
Base charge	\$10.30/month
0 – 2 kgal	\$ 5.30/kgal
>2 kgal	\$ 10.35 "
Based on winter average	

Next adjustment scheduled:	January 2019
Billing Frequency:	Monthly

## Residential Stormwater Rates

Last adjusted:	November 2016
Fund:	Enterprise
All Units (per IA (Acre)	Online Calculator <a href="http://www.AustinTexas.gov">www.AustinTexas.gov</a>

Next adjustment scheduled:	Unknown
Billing Frequency:	Monthly

Stormwater fee based on impervious acreage of residential units. A calculator is available online for homeowners to calculate their stormwater fee. See [Appendix G](#) also for additional stormwater information.

### Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)

Water	\$686.10
Sewer	\$933.90
Combined	\$1,620.00
% change from 2016	4.2%

Stormwater fee not included in annual rates.

- Included in the cost of water is a tiered minimum charge for water usage. Based on 7.5 kgal used per month, or 90 kgal per year, that cost is \$8.75 per month, or \$105.00 per year.
- Also included in the cost of water is a Water Revenue Stability Reserve Fund Surcharge of \$0.19/kgal. Based on 7.5 kgal used per month, this is \$1.42 per month, or \$17.10 per year.

# Columbus, Ohio

## Residential Water Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Base charge per bill \$ 35.03  
 0 – 5 HCF \$ 2.86/HCF  
 >5 HCF \$ 3.18 "

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Base charge per bill \$ 12.10  
 All Units \$ 4.16/HCF  
 Based on 100% of water usage.

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

## Residential Stormwater Rates

Last adjusted: January 2016  
 Fund: Enterprise  
 All Units \$ 0.1530/ERU  
 All Units (Clear Rivers Fee) \$ 0.1124/ERU

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

Customers are charged based on the impervious (non-penetrable) area a property is known to have, such as pavement and rooftops. A billing unit, called an Equivalent Residential Unit (or ERU), is equal to 2000 square feet of impervious area. Even properties that do not have a storm sewer, or water or sanitary sewer service, receive a stormwater bill. This is because all properties with impervious surface contribute to an area's stormwater runoff.

All single-family residential properties are calculated at 1 ERU and are billed the same flat daily rate.

Annual Cost	
AWWA Standard for Historical Comparison	
(120 HCF $\approx$ 90,000 gals.)	
Water	\$515.32
Sewer	\$547.60
Combined	\$1,062.92
% change from 2016	3.1%

Stormwater fee not included in annual rates.

# Dallas, Texas

## Residential Water Rates:

Last adjusted: October 2016  
 Fund: Enterprise  
 Base charge (¾" meter) \$5.25/bill  
 0 – 4 kgal \$1.90/kgal  
 >4 – 10 kgal \$4.25 "  
 >10 – 15 kgal \$6.03 "  
 >15 kgal \$8.55 "

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: October 2016  
 Fund: Enterprise  
 Base charge (¾" meter) \$4.70/bill  
 All units \$5.31/kgal  
 Based on the annually adjusted average water consumed during the winter months of December, January, February, and March; 40 kgal maximum or actual consumption rate per month, whichever is less.

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Stormwater Rates

Last adjusted: October 2009  
 Fund: Enterprise  
 All Units (flat fee) \$3.65/month

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$332.70
Sewer	\$534.30
Combined	\$867.00
% change from 2016	0.0%

See [Appendix G](#) also for additional stormwater information.

Stormwater fee not included in annual rates.

# Detroit, Michigan

## Residential Water Rates:

Last adjusted: October 2017  
 Fund: Enterprise  
 Meter charge (5/8" meter) \$702/bill  
 All units \$2.376/HCF

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: October 2017  
 Fund: Enterprise  
 Base charge \$ 5.68/bill  
 All units \$ 5.273/HCF  
 Based on 100% of water usage.

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Stormwater Rates

Last adjusted: November 2016  
 Fund: Enterprise  
 All Units \$661/Impervious Acre

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$369.36
Sewer	\$700.92
Combined	\$1,070.28
% change from 2016	1.4%

Residential customers are currently being phased from a flat monthly stormwater fee to a monthly fee based on impervious surface per property. Most residential customers have been phased into the new impervious acreage rate. See [Appendix G](#) also for additional stormwater information.

Stormwater fee not included in annual rates.

# Flint, Michigan

## Residential Water Rates:

Last adjusted: August 2015  
 Fund: Enterprise  
 Base charge \$22.90/bill  
 All Units \$ 6.19/HCF

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: August 2015  
 Fund: Enterprise  
 Base charge \$34.48/bill  
 All units \$ 4.31/HCF  
 Based on 100% of water usage.

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$1,017.60
Sewer	\$930.96
Combined	\$1,948.56
% change from 2016	0.0%

# Fort Worth, Texas

## Residential Water Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Service charge (5/8" meter) \$10.75/bill  
 0 – 8 HCF \$ 2.12/HCF  
 >8 – 20 HCF \$ 2.93 "  
 >20 – 30 HCF \$ 3.69 "  
 >30 HCF \$ 4.44 "

Next adjustment scheduled: January 2018  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Base charge \$6.50/bill  
 All units \$3.62/HCF  
 Based on an individual customer's average monthly usage during the preceding months of December, January, and February.

Next adjustment scheduled: January 2018  
 Billing Frequency: Monthly

## Residential Stormwater Rates

Last adjusted: January 2012  
 Fund: Enterprise  
 0.5 ERU \$ 2.70/month  
 0.1 ERU \$ 5.40/month  
 1.5 ERU \$ 8.10/month  
 2.0 ERU \$10.80/month

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$422.28
Sewer	\$512.40
Combined	\$934.68
% change from 2016	2.3%

Stormwater fee not included in annual rates.

# Honolulu, Hawaii

## Residential Water Rates:

Last adjusted: July 2015  
 Fund: Enterprise  
 Service charge (5/8" meter) \$10.50/bill  
 Base charge \$ 9.26/bill  
 0 – 13 kgal \$ 4.42/kgal  
 >13 – 30 kgal \$ 5.33 "  
 >30 kgal \$ 7.94 "

Next adjustment scheduled: Unknown  
 Billing Frequency: Bi-Monthly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Fund: Enterprise  
 Base charge \$77.55/month  
 All units \$ 4.63/kgal  
 Based on 80% of water usage

Next adjustment scheduled: Unknown  
 Billing Frequency: Bi-Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$464.28
Sewer	\$1,263.96
Combined	\$1,728.24
% change from 2016	0.0%



# Houston, Texas

## Residential Water Rates:

Last adjusted:	April 2017
Fund:	Enterprise
Base charge (5/8" meter)	\$ 5.24/bill
0 – 1 kgal	\$ 5.38/kgal
>1 – 2 kgal	\$12.27 "
>2 – 3 kgal	\$12.68 "
>3 – 4 kgal	\$23.99 "
>4 – 5 kgal	\$28.76 "
>5 – 6 kgal	\$33.52 "
>6 – 12 kgal	\$33.42 + \$5.17 per additional kgal
>12 kgal	\$62.42 + \$8.51 per additional kgal

Next adjustment scheduled:	April 2018
Billing Frequency:	Monthly

## Residential Sewer Rates:

Last adjusted:	April 2017
Fund:	Enterprise
Base charge	\$11.14/bill
0 – 1 kgal	\$11.32/kgal
>1 – 2 kgal	\$11.69 "
>2 – 3 kgal	\$11.99 "
>3 – 4 kgal	\$27.48 "
>4 – 5 kgal	\$33.08 "
>5 – 6 kgal	\$41.23 "
>6 kgal	\$41.23 + \$8.15 per additional kgal

Next adjustment scheduled:	April 2018
Billing Frequency:	Monthly

Based on 100% of water usage

## Residential Stormwater Rates

Last adjusted:	July 2011
Fund:	Enterprise
All Units (IA)	\$0.032/square foot

Next adjustment scheduled:	Unknown
Billing Frequency:	Monthly

Stormwater fee is calculated annually (divided into monthly billing cycles).

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$495.30
Sewer	\$641.46
Combined	\$1,136.76
% change from 2016	2.2%

Stormwater fee not included in annual rates.

# Indianapolis, Indiana

## Residential Water Rates:

Last adjusted: July 2016  
 Fund: Enterprise  
 Base charge (5/8" meter) \$8.68/bill  
 All Units \$3.6736/HCF

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: July 2016  
 Fund: General  
 Base charge \$ 18.75/bill  
 0 – 10 HCF \$ 4.7929/HCF  
 >10 HCF \$ 5.4281 "  
 Based on 100% of water usage

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$544.99
Sewer	\$656.36
Combined	\$1,201.35
% change from 2016	0.0%

Stormwater fee not included in annual rates.

# Jacksonville, Florida

## Residential Water Rates:

Last adjusted:	October 2012
Fund:	Enterprise
Base charge (5/8" meter)	\$12.60/bill
0 – 6 kgal	\$ 0.93/kgal
>6 – 20 kgal	\$ 2.60 "
>20 kgal	\$ 5.60 "
Environmental (all kgal)	\$ 0.37 "

Next adjustment scheduled:	Unknown
Billing Frequency:	Monthly

## Residential Sewer Rates:

Last adjusted:	October 2012
Fund:	Enterprise
Base charge	\$ 14.10/bill
0 – 6 kgal	\$ 4.94/kgal
>6 – 20 kgal	\$ 6.02 "
Environmental 1 – 20 kgal	\$ 0.37 "
MAXIMUM BILL	\$135.42
Based on 100% of water usage up to 20 kgal	

Next adjustment scheduled:	Unknown
Billing Frequency:	Monthly

## Residential Stormwater Rates

Last adjusted:	October 2012
Fund:	Enterprise
0 – 1,549 square feet (IA)	\$2.50/month
1,550 – 4,650 square feet (IA)	\$5.00 "
> 4,650 square feet (IA)	\$7.50 "

Next adjustment scheduled:	Unknown
Billing Frequency:	Monthly

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$337.93
Sewer	\$686.54
Combined	\$1,024.47
% change from 2016	0.0%

Stormwater fee not included in annual rates.

A 10% Public Service Tax, 3% Franchise Fee and Environmental Charges (water and sewer) are included.

# Los Angeles, California

## Residential Water Rates:

Last adjusted:	January 2016	Next adjustment scheduled:	Unknown
Fund:	Enterprise		
January 1 to June 30		Billing Frequency:	Monthly
0 – 28 HCF (average rate)	\$5.892/HCF		
>28 HCF (average rate)	\$7.341 "		
July 1 to December 31			
0 – 44 HCF (average rate)	\$4.80/HCF		
>44 HCF (average rate)	\$6.16 "		

## Residential Sewer Rates:

Last adjusted:	July 2016	Next adjustment scheduled:	July 2017
Fund:	Enterprise		
All units	\$4.80/HCF	Billing Frequency:	Bi-Monthly
Dry Winter Compensation factor is 84%.			

### Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)

Water	\$692.64
Sewer	\$564.48
Combined	\$1,257.12
% change from 2016	15.5%

- The Los Angeles Department of Water and Power uses lot size, temperature zone and household size to determine the number of HCF each customer has at the first tier rate.
- Residential sewer rates are based on the period with the minimum winter water used daily average times the dry winter compensation factor of 84%. Periods after July of each year have the calculated daily volume multiplied by the days in the period times \$4.80/HCF.

# Milwaukee, Wisconsin

## Residential Water Rates:

Last adjusted: September 2017  
 Fund: Enterprise  
 November 1 to May 31  
 Base charge (¾" meter) \$26.44/bill  
 All units \$ 2.02/HCF

Next adjustment scheduled: September 2018

Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: February 2017  
 Fund: Enterprise  
 Service charge \$13.71/bill  
 All units (volume charge) \$ 1.65/HCF  
 Based on winter water usage

Next adjustment scheduled: February 2018

Billing Frequency: Quarterly

## Residential Stormwater Rates

Last adjusted: October 2012  
 Fund: Enterprise  
 All Units \$ 19.22/ERU

Next adjustment scheduled: Unknown

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$348.16
Sewer	\$252.84
Combined	\$601.00
% change from 2016	3.1%

Stormwater fee not included in annual rates.

For one to four unit properties the current quarterly stormwater fee is \$19.22 fper 1 ERU (Equivalent Residential Unit)

For all other properties the stormwater fee is based on the total area of impervious surface on the property.

One ERU is equivalent to 1,610 square feet of impervious surface. Thus the annual fee is \$0.048/square foot impervious surface [(\$19.22 x 4 quarters)/1610].

See [Appendix G](#) also for additional stormwater information.

- Base charge includes fire protection fee.

# New Orleans, Louisiana

## Residential Water Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Service charge (5/8" meter) \$6.53/bill  
 0 – 3 kgal \$4.35/kgal  
 >3 – 20 kgal \$7.41 "  
 >20 – 1,000 kgal \$5.83 "  
 >1,000 kgal \$4.88 "

Next adjustment scheduled: January 2018

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Service charge (5/8" meter) \$16.68/bill  
 All units \$ 6.50/kgal  
 Based on 85% of water usage

Next adjustment scheduled: January 2018

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$635.10
Sewer	\$697.41
Combined	\$1,332.51
% change from 2016	8.0%

# New York, New York

## Residential Water Rates:

Last adjusted: July 2015  
 Fund: Enterprise  
 Minimum charge \$44.10  
 All units \$ 3.81/HCF

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2015  
 Fund: Enterprise  
 Minimum charge \$70.20  
 All units \$ 6.06/HCF  
 Based on 159% of water rate.

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$457.20
Sewer	\$726.95
Combined	\$1,184.15
% change from 2016	0.0%



# Newark, New Jersey

## Residential Water Rates:

Last adjusted: January 2016  
 Fund: Enterprise  
 Base charge includes 3 HCF \$8.79/bill  
 >3 – 333 HCF \$2.848/HCF  
 >333 – 1,666 HCF \$2.543 "  
 >1,666 HCF \$2.281 "

Next adjustment scheduled: Unknown

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: January 2016  
 Fund: Enterprise  
 Base charge 0 – 6 HCF \$23.80/bill  
 >6 HCF \$ 3.572/HCF  
 Based on 100% of water usage.

Next adjustment scheduled: Unknown

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$352.44
Sewer	\$457.06
Combined	\$809.50
% change from 2016	0.0%

# Philadelphia, Pennsylvania

## Residential Water Rates:

Last adjusted: July 2017  
 Fund: Enterprise  
 Base charge (5/8" meter) \$6.61/bill  
 0 – 20 HCF \$4.308/HCF  
 >20 – 980 HCF \$3.767 "  
 >980 – 19,000 HCF \$2.931 "  
 >19,000 HCF \$2.851 "

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Fund: Enterprise  
 Base charge (5/8" meter) \$ 7.41/bill  
 All units \$ 3.072/HCF  
 Based on 100% of water usage

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

## Residential Stormwater Rates

Last adjusted: Unknown  
 Fund: Enterprise  
 All Units (per IA (Acre) Online Calculator  
 www.Phila.gov

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

### Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)

Water	\$596.28
Sewer	\$478.44
Combined	\$1,074.72
% change from 2016	4.9%

Residential stormwater customers pay a standard amount based on the average surface area of impervious cover on residential properties throughout the city.

See [Appendix G](#) also for additional stormwater information.

Stormwater fee not included in annual rates.

# Portland, Maine

## Residential Water Rates:

Last adjusted: May 2017  
 Fund: Enterprise  
 Minimum charge (5/8" meter)  
 includes 1 HCF \$9.11/bill  
 >1 – 30 HCF \$2.28/HCF  
 >30 – 100 HCF \$1.93 "  
 >100 – 500 HCF \$1.70 "  
 >500 HCF \$0.95 "

Next adjustment scheduled: Unknown

Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: May 2017  
 Fund: Enterprise  
 Minimum charge (5/8" meter)  
 includes 1 HCF \$9.65/bill  
 >1 \$9.65/HCF  
 Based on 100% of water usage.

Next adjustment scheduled: Unknown

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$355.56
Sewer	\$1,158.00
Combined	\$1,513.56
% change from 2016	13.3%

# Providence, Rhode Island

## Residential Water Rates:

Last adjusted:	February 2017	Next adjustment scheduled:	Unknown
Fund:	Enterprise		
Minimum charge (5/8" meter)	\$7.89/bill	Billing Frequency:	Quarterly
All units	\$3.403/HCF		

## Residential Sewer Rates:

Last adjusted:	May 2016	Next adjustment scheduled:	Unknown
Fund:	Enterprise		
Annual Fixed Fee (any size meter up to 6 dwelling units)	\$218.00/dwelling	Billing Frequency:	Monthly
All units	\$3.531/HCF		
Based on 100% of water usage.			

Sewer costs based on service from the Narragansett Bay Commission Field's Point Wastewater Treatment Facility.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$459.96
Sewer	\$641.72
Combined	\$1,101.68
% change from 2016	0.8%

- In Providence, water services are provided by the Providence Water Supply Board, while sewer services are managed by the Narragansett Bay Commission.
- For sewer service, anything over 6 dwelling units is billed at commercial rates.

# Saint Louis, Missouri

## Residential Water Rates:

Last adjusted: July 2010  
 Fund: Enterprise  
 Base charge (5/8" meter) \$23.84  
 0 – 250 HCF \$ 1.77/HCF  
 >250 – 20,000 HCF \$ 1.38 "  
 >20,000 HCF \$ 1.04 "

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Fund: Special Revenue  
 Base charge \$21.52/bill  
 All units \$ 3.97/HCF  
 Based on 100% of water usage.

Next adjustment scheduled: July 2018  
 Billing Frequency: Monthly

### Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)

Water	\$307.76
Sewer	\$734.64
Combined	\$1,042.40
% change from 2016	7.2%

- Saint Louis offers flat rates for domestic use based on such factors as the number of rooms and bathrooms within each residence. Utilization of the flat rate structure provides for unlimited water usage within each participating household. For the purposes of the MWRA Advisory Board Retail Rate Survey, charges are based upon the metered rates as specified within the City of Saint Louis Ordinance #68694.
- The stormwater fee that existed in prior years was removed due to a legal decision.

# Saint Paul, Minnesota

## Residential Water Rates:

Last adjusted: January 2016  
 Fund: Enterprise  
 Service Base Fee (<1") \$18.00/quarter  
 Right of Way Recovery Fee \$ 4.50/"  
 Winter – December to May:  
 All units \$2.64/HCF  
  
 Summer – June to November:  
 All units \$2.74/HCF  
  
 Annual testing charge \$6.36/household

Next adjustment scheduled: January 2017  
 Billing Frequency: Quarterly

## Residential Sewer Rates:

Last adjusted: January 2016  
 Fund: Enterprise  
 Service Base Fee \$6.00/quarter  
 0 – 1,000 HCF \$4.04/HCF  
 >1,000 – 5,000 HCF \$4.01 "  
 >5,000 HCF \$4.00 "  
 Minimum charge of \$7.20 for 1" and smaller meters.  
 Based on 100% of water usage

Next adjustment scheduled: January 2017  
 Billing Frequency: Quarterly

## Residential Stormwater Rates

Last adjusted: January 2016  
 Fund: Enterprise  
 All Units \$ 88.35/year

Next adjustment scheduled: Unknown  
 Billing Frequency: Quarterly

### Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)

Water	\$419.16
Sewer	\$508.80
Combined	\$927.96
% change from 2016	6.1%

Annual stormwater rate for condominiums and town homes is \$59.43.

See [Appendix G](#) also for additional stormwater information.

Stormwater fee not included in annual rates.

# San Antonio, Texas

## Residential Water Rates:

Last adjusted: January 2017  
Fund: Enterprise

Next adjustment scheduled: January 2018

Billing Frequency: Monthly

Base charge (5/8" meter) \$11.64/bill  
Water Supply Fee  
0 – 2.992 kgal \$0.954/kgal  
>2.992 – 4.489 kgal \$1.669 "  
>4.489 – 5.985 kgal \$2.145 "  
>5.985 – 7.481 kgal \$2.623 "  
>7.481 – 10.473 kgal \$3.100 "  
>10.473 – 14.962 kgal \$3.577 "  
>14.962 – 20.119 kgal \$4.292 "  
>20.119 kgal \$6.198 "

### Monthly Volume Charge:

0 – 2.992 kgal \$0.672/kgal  
>2.992 – 4.489 kgal \$1.176 "  
>4.489 – 5.985 kgal \$1.511 "  
>5.985 – 7.481 kgal \$1.847 "  
>7.481 – 10.473 kgal \$2.183 "  
>10.473 – 14.962 kgal \$2.520 "  
>14.962 – 20.119 kgal \$2.023 "  
>20.119 kgal \$4.366 "

EAA Fee: \$0.3311/kgal  
Texas Commission on  
Environmental Quality Fee: \$0.18/monthly

## Residential Sewer Rates:

Last adjusted: January 2017  
Fund: Enterprise

Next adjustment scheduled: January 2018

Billing Frequency: Monthly

Minimum charge includes  
1.496 kgal \$12.98  
>1.496 kgal \$ 0.00/kgal  
>1.496 – 2.992 HCF \$ 2.774 "  
>2.992 HCF \$ 4.162 "

Based on winter usage.

## Residential Stormwater Rates:

Last adjusted: January 2017  
Fund: Enterprise

Next adjustment scheduled: January 2018

Billing Frequency: Monthly

≤2,750 Sq. Ft. IA \$3.45  
>2,750 - 4,220 Sq. Ft. IA \$4.55  
>4,220 Sq. Ft. IA \$9.61

### Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)

Water	\$504.72
Sewer	\$447.00
Combined	\$951.72
% change from 2016	21.8%

See [Appendix G](#) also for additional stormwater information.

Stormwater fee not included in annual rates.

- San Antonio has two water systems; the water rates cited are provided by the San Antonio Water System.



# San Diego, California

## Residential Water Rates:

Last adjusted: August 2017  
 Fund: Enterprise  
 Base charge (5/8" meter) \$48.44/bill  
 0 – 8 HCF/month \$ 4.842/HCF  
 >8 – 24 HCF/month \$ 5.423 "  
 >24 – 36 HCF/month \$ 7.748 "  
 >36 HCF/month \$10.895 "

Next adjustment scheduled: August 2018  
 Billing Frequency: Bi-Monthly

## Residential Sewer Rates:

Last adjusted: March 2012  
 Fund: Special Revenue  
 Base charge \$ 30.66/bill  
 All units \$ 3.5983/HCF

Next adjustment scheduled: Unknown  
 Billing Frequency: Bi-Monthly

Charge for SRF customers  
 without winter use history \$95.43  
 Based on a cap of 9 HCF.

## Residential Stormwater Rates

Last adjusted: Unknown  
 Fund: Enterprise  
 All Units \$0.95/month

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$913.51
Sewer	\$594.17
Combined	\$1,507.68
% change from 2016	1.7%

Stormwater fee not included in annual rates.

# San Francisco, California

## Residential Water Rates:

Last adjusted: July 2017  
 Fund: Enterprise  
 Base charge (¾" meter) \$11.63  
 0 – 4 HCF/month \$ 6.42/HCF  
 >4 HCF/month \$ 8.62 "

Next adjustment scheduled: July 2018  
 Billing Frequency: Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Fund: Special Revenue  
 0 – 3 HCF/dwelling unit/mo \$10.84/HCF  
 >3 HCF \$12.40 "  
 Based on 90% of water usage.

Next adjustment scheduled: July 2018  
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$997.92
Sewer	\$1,359.84
Combined	\$2,357.76
% change from 2016	7.5%

- San Francisco calculates its bills bi-monthly, but bills its customers every month. San Francisco reports that single-family residential customers have an average use of 72 HCF/year. At this level, annual costs per household would be \$645.36 (water) and \$800.16 (sewer).
- While multiple family dwelling units in San Francisco vary widely in water usage, a dwelling unit consuming 48 HCF/year would have an annual water bill of \$438.48 and an annual sewer bill of \$520.32.

# San Jose, California

## Residential Water Rates:

Last adjusted: July 2017  
 Fund: Enterprise  
 Base charge (5/8" meter) \$25.45/bill  
 0 – 3 HCF \$ 4.2878/HCF  
 4 – 18 HCF \$ 4.7642 "  
 >18 HCF \$ 5.2406 "

Next adjustment scheduled: February 2017  
 Billing Frequency: Bi-Monthly

## Residential Sewer Rates:

Last adjusted: July 2017  
 Fund: Special Revenue  
 Flat rate \$454.92/year

Next adjustment scheduled: Unknown  
 Billing Frequency: Annually

## Residential Stormwater Rates:

Last adjusted: July 2016  
 Fund: Enterprise  
 All Units \$7.87/month

Next adjustment scheduled: Unknown  
 Billing Frequency: Monthly

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$1,038.68
Sewer	\$454.92
Combined	\$1,493.60
% change from 2016	5.6%

Stormwater fee not included in annual rates.

- Rates cited for San Jose are provided by the San Jose Water Company (water) and the City of San Jose (sewer).
- The annual cost for water includes miscellaneous additional charges and credits not listed here.

# Seattle, Washington

## Residential Water Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 Base charge (¾" meter)  
 Winter – September 16  
 to May 15:  
 All units \$ 5.15 /HCF  
 Summer – May 16  
 To September 15:  
 0 – 5 HCF \$ 5.29/HCF  
 5 – 18 HCF \$ 6.54 "  
 >18 HCF \$11.80 "

Next adjustment scheduled: January 2018  
 Billing Frequency: Bi-Monthly

## Residential Sewer Rates:

Last adjusted: January 2017  
 Fund: Enterprise  
 All units \$12.93/HCF

Next adjustment scheduled: January 2018  
 Billing Frequency: Bi-Monthly

Summer residential sewer bills are based on their prior winter water use or their actual summer use, whichever is less. Summer non-residential and multi-family bills are based on 100% of annual water consumption

## Residential Stormwater Rates

Last adjusted: January 2016  
 Fund: Enterprise  
 All Units \$198.83/year

Next adjustment scheduled: January 2017  
 Billing Frequency: Annually

See [Appendix G](#) also for additional stormwater information.

### Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)

Water	\$830.40
Sewer	\$1,551.60
Combined	\$2,382.00
% change from 2016	2.9%

Stormwater fee not included in annual rates.

- Seattle reports that the typical single-family residential customer uses 60 HCF/year of water and 51.6 HCF/year of sewer. The annual cost for service at this level of usage would be \$493.60 (water) and \$667.19 (sewer).

# Washington, District of Columbia

## Residential Water Rates:

Last adjusted:	October 2017
Fund:	Enterprise
Meter fee (5/8" meter)	\$3.86/month
0 – 4 HCF	\$3.39/HCF
>4 HCF	\$4.26 "
Right-of-Way Fee	\$0.17 "
PILOT Fee	\$0.48 "
Water System Replacement Fee	\$6.30/month

Next adjustment scheduled:	October 2018
Billing Frequency:	Monthly

## Residential Sewer Rates:

Last adjusted:	October 2017
Fund:	Enterprise
Meter fee (5/8" meter)	\$2.123/month
All units	\$6.00/HCF
Right of Way Fee	\$0.0935 "
PILOT Fee	\$0.2585 "

Next adjustment scheduled:	October 2018
Billing Frequency:	Monthly

## Residential Stormwater Rates

Last adjusted:	October 2017
Fund:	Enterprise
100-600 Sq. Ft. IA	\$ 13.34 month
700-2,000 Sq. Ft. IA	\$ 22.24 "
2,100-3,000 Sq. Ft. IA	\$ 53.38 "
3,100-7,000 Sq. Ft. IA	\$ 84.51 "
7,100-11,000 Sq. Ft. IA	\$191.26 "
11,100 and more Sq. Ft. IA	\$300.24 "

Next adjustment scheduled:	October 2018
Billing Frequency:	Monthly

### Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)

Water	\$600.44
Sewer	\$787.72
Combined	\$1,388.16
% change from 2016	4.5%

See [Appendix G](#) also for additional stormwater information.

The Impervious Area Charge (IAC) was introduced in 2009 to more equitably distribute the cost of the Combined Sewer Overflow Long Term Control Plan (CSO LTCP). The IAC is based on Equivalent Residential Units. In addition to the tiered IAC, there is also a monthly stormwater fee of \$2.67/month.

Stormwater fee not included in annual rates.

- Right-of-Way, PILOT, and Metering fee have been prorated based on 45% water and 55% sewer.

# **APPENDIX A**

## **2016 WATER & SEWER RETAIL RATE INFORMATION**

NOTE: The Advisory Board endeavors to portray the most accurate information possible at time of print. As a result, some 2016 rates and calculations may differ from the information published in the 2016 Retail Rate Survey to reflect more accurate information obtained since that time.

## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA 2016

Charges include MWRA, community, and alternatively supplied services.

Rates based on average annual household use of **120 hundred cubic feet (HCF)**, or approximately **90,000 gallons**.

	Water	Sewer	Combined	Change
<b>Arlington (W/S)*</b>	\$611.20	\$730.04	\$1,341.24	0.0%
<b>Ashland (S)</b>	\$452.80	\$1,495.60	\$1,948.40	0.0%
<b>Bedford (S/partial W)</b>	\$671.00	\$1,205.00	\$1,876.00	11.4%
<b>Belmont (W/S)</b>	\$843.48	\$1,593.28	\$2,436.76	3.7%
<b>Boston (W/S)</b>	\$599.59	\$814.18	\$1,413.76	3.1%
<b>Braintree (S)</b>	\$532.40	\$807.00	\$1,339.40	4.8%
<b>Brookline (W/S)</b>	\$683.80	\$1,019.60	\$1,703.40	4.0%
<b>Burlington (S)</b>	\$196.50	\$391.50	\$588.00	0.0%
<b>Cambridge (S/partial W)</b>	\$380.00	\$1,184.00	\$1,564.00	2.4%
<b>Canton (S/partial W)</b>	\$610.00	\$1,013.60	\$1,623.60	0.0%
<b>Chelsea (W/S)</b>	\$562.80	\$992.40	\$1,555.20	4.8%
<b>Chicopee (W)</b>	\$488.00	\$739.45	\$1,227.45	7.7%
<b>Clinton (W/S)</b>	\$343.60	\$257.70	\$601.30	0.0%
<b>Dedham (S/partial W)</b>	\$628.20	\$937.28	\$1,565.48	0.7%
<b>Everett (W/S)</b>	\$273.60	\$747.60	\$1,021.20	1.9%
<b>Framingham (W/S)</b>	\$767.16	\$967.68	\$1,734.84	6.1%
<b>Hingham (S)</b>	\$816.68	\$1,128.00	\$1,944.68	0.9%
<b>Holbrook (S)</b>	\$781.20	\$876.00	\$1,657.20	12.7%
<b>Leominster (partial W)</b>	\$455.84	\$508.76	\$964.60	0.0%
<b>Lexington (W/S)</b>	\$526.40	\$994.00	\$1,520.40	2.8%
<b>Lynn (partial W)</b>	\$423.72	\$777.84	\$1,201.56	0.0%
<b>Malden (W/S)</b>	\$655.20	\$774.72	\$1,429.92	0.0%
<b>Marblehead (W)</b>	\$637.00	\$1,124.00	\$1,761.00	4.0%
<b>Marlborough (partial W)</b>	\$852.00	\$878.40	\$1,730.40	3.0%
<b>Medford (W/S)</b>	\$768.72	\$1,004.40	\$1,773.12	8.4%
<b>Melrose (W/S)</b>	\$918.40	\$1,377.00	\$2,295.40	11.7%
<b>Milton (W/S)</b>	\$761.04	\$1,375.44	\$2,136.48	4.8%
<b>Nahant (W)*</b>	\$834.00	\$1,066.80	\$1,900.80	0.0%
<b>Natick (S)</b>	\$348.40	\$1,084.00	\$1,432.40	3.8%
<b>Needham (S/partial W)</b>	\$471.60	\$1,158.60	\$1,630.20	2.8%
<b>Newton (W/S)</b>	\$872.00	\$1,270.00	\$2,142.00	6.6%
<b>Northborough (partial W)</b>	\$587.08	\$1,093.84	\$1,680.92	12.2%
<b>Norwood (W/S)</b>	\$607.68	\$838.80	\$1,446.48	1.2%
<b>Peabody (partial W)</b>	\$306.00	\$409.80	\$715.80	0.0%
<b>Quincy (W/S)</b>	\$754.80	\$1,149.96	\$1,904.76	5.8%
<b>Randolph (S)</b>	\$607.80	\$950.40	\$1,558.20	2.8%
<b>Reading (W/S)</b>	\$1,156.80	\$1,185.60	\$2,342.40	5.0%
<b>Revere (W/S)</b>	\$450.00	\$1,489.20	\$1,939.20	1.5%
<b>Saugus (W)</b>	\$634.82	\$380.88	\$1,015.70	8.7%
<b>Somerville (W/S)</b>	\$645.03	\$1,178.46	\$1,823.49	10.3%
<b>Stoneham (W/S)</b>	\$690.00	\$1,086.00	\$1,776.00	-1.7%
<b>Stoughton (S/partial W)</b>	\$553.12	\$1,152.00	\$1,705.12	0.7%
<b>Swampscott (W)</b>	\$848.00	\$659.00	\$1,507.00	2.0%
<b>Wakefield (S/partial W)</b>	\$664.20	\$1,139.40	\$1,803.60	3.7%
<b>Walpole (S)</b>	\$685.20	\$816.58	\$1,501.78	3.5%
<b>Waltham (W/S)</b>	\$428.64	\$753.00	\$1,181.64	0.0%
<b>Watertown (W/S)</b>	\$537.60	\$993.60	\$1,531.20	1.8%
<b>Wellesley (S/partial W)</b>	\$471.96	\$1,051.20	\$1,523.16	4.5%
<b>Westwood (S/partial W)</b>	\$628.20	\$813.00	\$1,441.20	1.7%
<b>Weymouth (S)</b>	\$607.80	\$1,035.72	\$1,643.52	2.2%
<b>Wilbraham (W)</b>	\$494.40	\$492.00	\$986.40	0.0%
<b>Wilmington (S/partial W)</b>	\$485.60	\$616.80	\$1,102.40	5.2%
<b>Winchester (S/partial W)*</b>	\$296.60	\$338.40	\$635.00	7.8%
<b>Winthrop (W/S)</b>	\$780.00	\$1,188.00	\$1,968.00	2.8%
<b>Woburn (S/partial W)</b>	\$205.00	\$328.00	\$533.00	0.0%
<b>Worcester (partial W)</b>	\$432.00	\$635.52	\$1,067.52	0.0%
<b>AVERAGE</b>	\$595.08	\$929.80	\$1,524.89	3.7%

The following communities do not provide municipal sewer services and, therefore, are not listed: Lynnfield Water District, South Hadley Fire District #1, Southborough and Weston.

(\*) Indicates communities that utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).

**ANNUAL WATER AND SEWER CHARGES IN  
COMMUNITIES RECEIVING SERVICES FROM THE MWRA  
2016**

	Water	Sewer
Arlington (W/S)*	\$611.20	\$730.04
Ashland (S)	-	1495.60
Bedford (S/partial W)	671.00	1205.00
Belmont (W/S)	843.48	1593.28
Boston (W/S)	599.59	814.18
Braintree (S)	-	807.00
Brookline (W/S)	683.80	1019.60
Burlington (S)	-	3915.00
Cambridge (S/partial W)	380.00	1184.00
Canton (S/partial W)	610.00	1013.60
Chelsea (W/S)	562.80	992.40
Chicopee (W)	488.00	-
Clinton (W/S)	343.60	257.70
Dedham (S/partial W)	628.20	937.28
Everett (W/S)	273.60	747.60
Framingham (W/S)	767.16	967.68
Hingham (S)	-	1128.00
Holbrook (S)	-	876.00
Leominster (partial W)	455.84	-
Lexington (W/S)	526.40	994.00
Lynn (partial W)	423.72	-
Lynnfield (W)	377.40	-
Malden (W/S)	655.20	774.72
Marblehead (W)	637.00	-
Marlborough (partial W)	852.00	-
Medford (W/S)	768.72	1004.40
Melrose (W/S)	918.40	1377.00
Milton (W/S)	761.04	1375.44
Nahant (W)*	834.00	-
Natick (S)	-	1084.00
Needham (S/partial W)	471.60	1158.60
Newton (W/S)	872.00	1270.00
Northborough (partial W)	587.08	-
Norwood (W/S)	607.68	838.80
Peabody (partial W)	306.00	-
Quincy (W/S)	754.80	1149.96
Randolph (S)	-	950.40
Reading (W/S)	1156.80	1185.60
Revere (W/S)	450.00	1489.20
Saugus (W)	634.82	-
Somerville (W/S)	645.03	1178.46
South Hadley (W)	472.40	-
Southborough (W)	437.08	-
Stoneham (W/S)	690.00	1086.00
Stoughton (S/partial W)	553.12	1152.00
Swampscott (W)	848.00	-
Wakefield (S/partial W)	664.20	1139.40
Walpole (S)	-	816.58
Waltham (W/S)	428.64	753.00
Watertown (W/S)	537.60	993.60
Wellesley (S/partial W)	471.96	1051.20
Weston (W)	267.20	-
Westwood (S/partial W)	628.20	813.00
Weymouth (S)	-	1035.72
Wilbraham (W)	494.40	-
Wilmington (S/partial W)	485.60	616.80
Winchester (S/partial W)*	296.60	338.40
Winthrop (W/S)	780.00	1188.00
Woburn (S/partial W)	205.00	328.00
Worcester (partial W)	432.00	-
<b>AVERAGE</b>	<b>\$585.29</b>	<b>\$984.15</b>
<b>Percent change</b>	<b>3.0%</b>	<b>4.0%</b>

Water and Sewer Charges are based on an annual water consumption of 120 HCF ≈ 90 kgal.  
(\*) Indicates communities that utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).



COMPARATIVE ANNUAL RESIDENTIAL WATER AND SEWER CHARGES FOR SELECTED NON-MWRA COMMUNITIES IN MASSACHUSETTS 2016				
	Water	Sewer	Combined	Change
Abington	\$618.00	\$640.00	\$1,258.00	0.0%
Agawam	\$317.20	\$376.32	\$693.52	0.0%
Ayer	\$342.40	\$899.20	\$1,241.60	2.7%
Beverly	\$370.80	\$673.20	\$1,044.00	-5.1%
Brockton	\$487.80	\$446.00	\$933.80	5.0%
Danvers	\$758.60	\$786.00	\$1,544.60	2.0%
Fairhaven	\$681.35	\$824.00	\$1,505.35	8.1%
Fall River	\$392.40	\$633.60	\$1,026.00	16.5%
Fitchburg	\$430.20	\$839.40	\$1,269.60	5.2%
Gloucester	\$684.90	\$1,330.20	\$2,015.10	7.6%
Haverhill	\$333.60	\$514.80	\$848.40	2.5%
Holyoke	\$387.81	\$486.00	\$873.81	0.0%
Hudson	\$471.60	\$634.80	\$1,106.40	0.0%
Lawrence	\$372.00	\$402.00	\$774.00	0.0%
Lowell	\$249.12	\$438.84	\$687.96	4.4%
Medfield	\$437.88	\$635.60	\$1,073.48	2.4%
New Bedford	\$297.99	\$568.00	\$865.99	0.0%
North Reading	\$790.40	Not Sewered	\$790.40	5.8%
Salem	\$357.60	\$729.60	\$1,087.20	2.0%
Shrewsbury	\$355.00	\$795.00	\$1,150.00	0.0%
Springfield	\$376.80	\$568.80	\$945.60	3.8%
Tewksbury	\$893.22	\$844.98	\$1,738.20	-0.9%
AVERAGE	\$473.03	\$669.83	\$1,142.86	2.8%
Water and sewer charges based on an annual water consumption of 120 HCF $\approx$ 90 kgal				
Average does not include unavailable data or non-sewered communities.				

COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES FOR MAJOR UNITED STATES CITIES 2016				
	Water	Sewer	Combined	Change
Austin, TX	\$657.30	\$897.24	\$1,554.54	3.1%
Boston, MA	\$599.59	\$814.18	\$1,413.76	3.1%
Columbus, OH	\$500.64	\$530.60	\$1,031.24	4.8%
Dallas, TX	\$332.70	\$534.30	\$867.00	2.3%
Detroit, MI	\$363.84	\$691.68	\$1,055.52	2.9%
Flint, MI	\$1,017.60	\$930.96	\$1,948.56	n/a
Fort Worth, TX	\$417.12	\$496.80	\$913.92	9.9%
Honolulu, HI	\$464.28	\$1,263.96	\$1,728.24	5.7%
Houston, TX	\$492.24	\$620.28	\$1,112.52	2.6%
Indianapolis, IN	\$544.99	\$656.36	\$1,201.35	8.3%
Jacksonville, FL	\$337.93	\$686.54	\$1,024.46	0.0%
Los Angeles, CA	\$578.60	\$509.63	\$1,088.23	4.9%
Milwaukee, WI	\$337.88	\$245.24	\$583.12	4.0%
MWRA Service Area	\$595.08	\$929.80	\$1,524.89	3.7%
New Orleans, LA	\$577.44	\$655.88	\$1,233.32	10.0%
New York, NY	\$457.20	\$726.95	\$1,184.15	0.0%
Newark, NJ	\$352.44	\$457.06	\$809.50	6.8%
Philadelphia, PA	\$572.28	\$452.04	\$1,024.32	6.5%
Portland, ME	\$352.44	\$984.00	\$1,336.44	-10.8%
Providence, RI	\$459.96	\$641.72	\$1,101.68	0.8%
Saint Louis, MO	\$307.76	\$664.32	\$972.08	6.6%
Saint Paul, MN	\$394.40	\$480.00	\$874.40	4.9%
San Antonio, TX	\$405.72	\$375.36	\$781.08	5.0%
San Diego, CA	\$866.40	\$615.76	\$1,482.16	8.9%
San Francisco, CA	\$997.92	\$1,359.84	\$2,357.76	7.5%
San Jose, CA	\$987.12	\$427.20	\$1,414.32	19.2%
Seattle, WA	\$807.20	\$1,472.40	\$2,279.60	2.9%
Washington, DC	\$578.36	\$752.92	\$1,331.28	4.2%
AVERAGE	\$531.07	\$701.56	\$1,258.19	6.7%
Water and sewer charges based on an annual water consumption of 120 HCF $\approx$ 90 kgal				
Note: MWRA Service Area averages exclude non-sewered communities.				
Note: Averages and change exclude Flint, MI.				

## **APPENDIX B**

# **SECOND METER INFORMATION AND GLOSSARY**

**SECOND METER INFORMATION:**

	Number	Percent
MWRA or partially supplied communities utilizing second meters to adjust water bills	YES: 38 NO: 22	YES: 63.3% NO: 36.7%

Ashland (S)	Yes	Arlington (W/S)*	No
Bedford (S/partial W)	Yes	Braintree (S)	No
Belmont (W/S)	Yes	Clinton (W/S)	No
Boston (W/S)	Yes	Everett (W/S)	No
Brookline (W/S)	Yes	Hingham (S)	No
Burlington (S)	Yes	Holbrook (S)	No
Cambridge (S/partial W)	Yes	Lynnfield (W)	No
Canton (S/partial W)	Yes	Malden (W/S)	No
Chelsea (W/S)	Yes	Northborough (partial W)	No
Chicopee (W)	Yes	Randolph (S)	No
Dedham (S/partial W)	Yes	Reading (W/S)	No
Framingham (W/S)	Yes	Somerville (W/S)	No
Leominster (partial W)	Yes	South Hadley (W)	No
Lexington (W/S)	Yes	Southborough (W)	No
Lynn (partial W)	Yes	Stoughton (S/partial W)	No
Marblehead (W)	Yes	Wakefield (S/partial W)	No
Marlborough (partial W)	Yes	Weston (W)	No
Medford (W/S)	Yes	Weymouth (S)	No
Melrose (W/S)	Yes	Wilmington (S/partial W)	No
Milton (W/S)	Yes	Winchester (S/partial W)*	No
Nahant (W)*	Yes	Winthrop (W/S)	No
Natick (S)	Yes	Woburn (S/partial W)	No
Needham (S/partial W)	Yes		
Newton (W/S)	Yes		
Norwood (W/S)	Yes		
Peabody (partial W)	Yes		
Quincy (W/S)	Yes		
Revere (W/S)	Yes		
Saugus (W)	Yes		
Stoneham (W/S)	Yes		
Swampscott (W)	Yes		
Walpole (S)	Yes		
Waltham (W/S)	Yes		
Watertown (W/S)	Yes		
Wellesley (S/partial W)	Yes		
Westwood (S/partial W)	Yes		
Wilbraham (W)	Yes		
Worcester (partial W)	Yes		

## GLOSSARY:

### ABBREVIATIONS/DESIGNATIONS

- ◆ (W/S) = MWRA Water and Sewer Community
- ◆ (W) = MWRA Water Only Community
- ◆ (S) = MWRA Sewer Only Community
- ◆ CF = Cubic Foot
- ◆ HCF = Hundred Cubic Feet
- ◆ 1 HCF = 100 Cubic Feet = 748 Gallons
- ◆ kgal = 1,000 gallons
- ◆ n/a = No answer

All of the information cited below is taken directly from *Massachusetts Water Resources Authority Technical Assistance Program: Municipal Water and Sewer Rate Making, A Guide for Local Officials*. May, 1989.

### DEBT EXCLUSION

A referendum to increase the levy limit by the amount of principal and interest payable each year on specific long-term bonds issued by a community; this exclusion remains in effect for the life of the debt only.

### WATER AND SEWER WHOLESALE CHARGES

Within the MWRA service area, these are the charges that are made by the MWRA to each community for the total amount of water and/or sewer treatment service, which is provided to that community for a fiscal year; MWRA wholesale charges constitute one component of each community's total water and sewer service costs.

### WATER AND SEWER RETAIL CHARGES

User charges which are billed to specific properties by a municipality or public utility for the provision of water and sewer service; these charges are generally billed periodically during the year and are generally based on the metered flow of water into each property; also known as "retail rates."

### GENERAL FUND - 6 water, 6 sewer (full and partial MWRA communities)

General fund accounting for water and sewer operations is typically the most understood accounting support alternative. This option does not require adoption of any legislation. Essentially, water and sewer expenditure and revenue accounts exist with the general fund along with other community financial activity. No segregation of utility costs and revenues is provided for. General fund accounting is on the budgetary (cash) basis and period-end or year-end reporting is on the modified accrual basis.

### SPECIAL REVENUE FUND - 3 water, 3 sewer (full and partial MWRA communities)

A special revenue fund is defined as "a fund used to account for the proceeds of specific revenue sources (other than expendable trusts or major capital projects) that are legally restricted to expenditure for specified purposes".

Special revenue fund accounting provides for segregation of water/sewer costs and revenues from other municipal financial activity.

Like the general fund, special revenue fund accounting is on the budgetary (cash) basis and financial reporting is on the modified accrual basis.

**ENTERPRISE FUND - 50 water, 47 sewer (full and partial MWRA Communities)**

A fund established to account for operations financed and operated in a manner similar to private business enterprises. In this instance the governing body intends that costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be recovered primarily through user charges.

A fund established because the governing body has decided that periodic determination of revenues earned, expenses incurred and/or net income is appropriate for capital maintenance, public policy management control, accountability or other purposes.

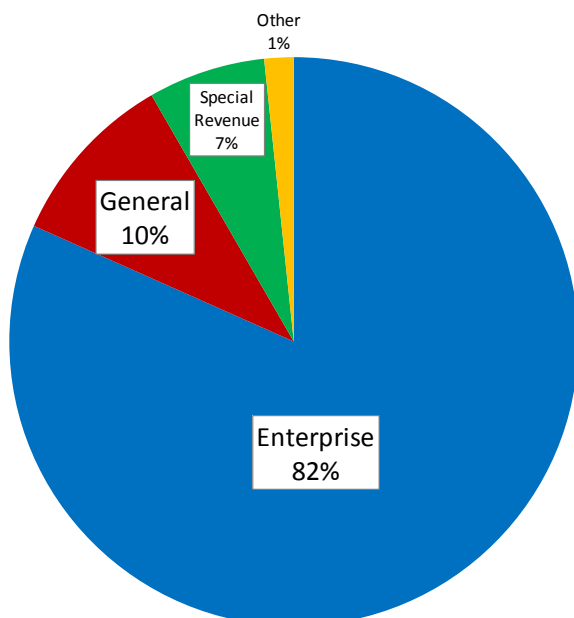
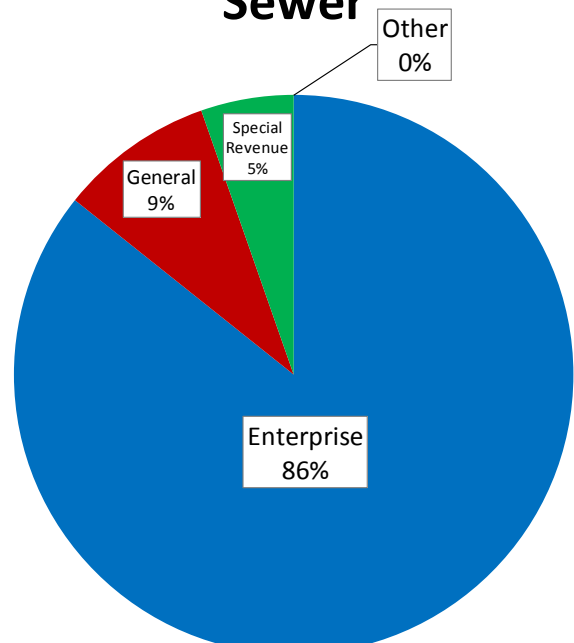
Like special revenue funds, enterprise funds allow communities to separately account for the expenditures and revenues of their water/sewer operations. Similarly, this segregated accounting provides enhanced information regarding the results of operations and facilitates rate setting and rate analyses. A community may elect to adopt enterprise fund(s) through city council or town meeting vote. Each enterprise fund must be adopted individually.

Enterprise fund accounting is generally the most complex of the accounting alternatives. Its accounting may be on the accrual basis or budgetary (cash) basis. Reporting, however, should be on the accrual basis. Accordingly, if accounting is on the budgetary basis, year-end accrual adjustments will be required to attain accrual basis reporting. These year-end accrual adjustments will generally include:

- Fixed asset capitalization and related depreciation
- Pension liabilities
- Sick, vacation and other compensated absences
- Revenue
- Contributed capital
- Other year-end accruals

**PRIVATE COMPANY - 1 water**

A privately funded and managed business used to account for water or sewer service. In this option, the private business sets all rates and is responsible for operational costs. At this time the only privately managed water system among the surveyed MWRA communities is Hingham, operated by Aquarion Water Company.

**Water****Sewer**

## **APPENDIX C**

# **2017 Residential Cost Based on Community Water Use Data**

	B		C	D	E	F
Community	Annual Residential Water Use (million gallons) <sup>1</sup>	Population <sup>2</sup>	Annual Per Capita Water Use (gallons)	Average Household Size <sup>2</sup>	Annual Household Water Use (gallons)	Annual Household Water Use (hcf)
Data Source / Calculation	Public Water Supply Annual Statistical Report <sup>4</sup>		Calculation C = A/B	2010 US Census	Calculation E = C x D	Calculation F = E / 748
Arlington	898.2	42,844	20,963	2.24	46,958	62.8
Ashland	334.0	16,593	20,128	2.59	52,131	69.7
Bedford <sup>3</sup>	326.4	14,411	22,650	2.50	56,625	75.7
Belmont <sup>3</sup>	676.0	24,254	27,873	2.54	70,798	94.6
Boston	9,410.0	617,594	15,237	2.26	34,435	46.0
Braintree	663.1	35,744	18,550	2.56	47,489	63.5
Brookline	1,440.0	58,732	24,518	2.27	55,656	74.4
Burlington <sup>3</sup>	480.9	25,307	19,002	2.64	50,166	67.1
Cambridge	1,761.7	105,162	16,752	2.00	33,504	44.8
Canton	532.3	21,561	24,686	2.54	62,702	83.8
Chelsea	618.0	35,177	17,568	2.92	51,299	68.6
Chicopee	1,246.4	55,298	22,540	2.28	51,390	68.7
Clinton	317.7	13,606	23,353	2.32	54,179	72.4
Dedham/Westwood <sup>3</sup>	923.4	40,110	23,021	2.57	59,163	79.1
Everett	750.8	41,667	18,020	2.67	48,114	64.3
Framingham	1,331.0	68,318	19,483	2.47	48,122	64.3
Hingham <sup>4</sup>	804.8	39,410	20,420	2.46	50,233	67.2
Holbrook	175.4	10,791	16,252	2.62	42,579	56.9
Leominster <sup>3</sup>	692.5	40,490	17,103	2.41	41,218	55.1
Lexington <sup>3</sup>	1,147.0	32,271	35,543	2.68	95,255	127.3
Lynn	1,783.6	90,329	19,746	2.69	53,116	71.0
Lynnfield Water District <sup>3</sup>	140.3	4,726	29,681	2.77	82,217	109.9
Malden	1,211.0	59,450	20,370	2.50	50,925	68.1
Marblehead <sup>3</sup>	579.4	20,379	28,430	2.42	68,801	92.0
Marlborough	690.9	38,499	17,946	2.46	44,147	59.0
Medford	1,105.5	56,173	19,681	2.38	46,840	62.6
Melrose	453.9	26,983	16,823	2.38	40,038	53.5
Milton	629.0	27,003	23,294	2.75	64,059	85.6
Nahant	115.9	3,410	33,997	2.18	74,114	99.1
Natick	735.0	33,006	22,268	2.44	54,335	72.6
Needham <sup>3</sup>	787.1	32,285	24,378	2.72	66,309	88.6
Newton	1,556.0	85,146	18,274	2.50	45,686	61.1
Northborough	227.7	14,155	16,088	2.73	43,919	58.7
Norwood	586.9	28,602	20,520	2.37	48,631	65.0
Peabody	1,075.4	51,251	20,982	2.38	49,937	66.8
Quincy	1,480.0	92,271	16,040	2.24	35,930	48.0
Randolph	513.4	32,112	15,988	2.75	43,967	58.8
Reading <sup>3</sup>	465.3	26,320	17,679	2.64	46,672	62.4
Revere	924.9	51,755	17,870	2.52	45,032	60.2
Saugus <sup>3</sup>	624.0	25,500	24,469	2.55	62,397	83.4
Somerville	1,240.2	75,754	16,371	2.29	37,490	50.1
South HadleyFD #1 <sup>3</sup>	333.6	14,669	22,743	2.25	51,173	68.4
Southborough <sup>3</sup>	275.1	10,031	27,430	2.89	79,272	106.0
Stoneham	456.7	21,437	21,306	2.36	50,283	67.2
Stoughton <sup>3</sup>	459.9	24,970	18,416	2.59	47,699	63.8
Swampscott	357.0	13,787	25,894	2.46	63,699	85.2
Wakefield	616.2	24,932	24,715	2.47	61,047	81.6
Walpole	599.4	24,070	24,903	2.69	66,990	89.6
Waltham	1,121.9	60,632	18,503	2.28	42,187	56.4
Watertown	713.2	31,915	22,347	2.15	48,046	64.2
Wellesley	784.7	27,982	28,044	2.78	77,963	104.2
Weston <sup>3</sup>	571.5	11,581	49,350	2.82	139,166	186.1
Weymouth <sup>3</sup>	933.9	52,216	17,884	2.37	42,386	56.7
Wilbraham	319.2	14,219	22,450	2.63	59,045	78.9
Wilmington	487.7	22,325	21,844	2.93	64,004	85.6
Winchester <sup>3</sup>	612.0	22,192	27,578	2.75	75,838	101.4
Winthrop	353.5	17,497	20,203	2.24	45,256	60.5
Woburn	1,323.0	38,120	34,706	2.43	84,335	112.7
Worcester	3,419.6	181,045	18,888	2.46	46,465	62.1

<sup>1</sup> **Residential usage** is based primarily on total residential consumption reported by each community in their 2017 Annual Public Water Supply Annual Statistical Report filed with the Massachusetts Department of Environmental Protection.

<sup>2</sup> Except where noted **Total population** and **average household size** for each community based on the 2010 Census.

<sup>3</sup> **Total population** based on the 2017 Annual Public Water Supply Annual Statistical Report filed with the Massachusetts Department of Environmental Protection.

<sup>4</sup> Based on the 2017 Annual Public Water Supply Annual Statistical Report for Hingham and Hull combined.

## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA

### Household Usage Based on Local, State & Federal Data 2017

Charges include MWRA, community, and alternatively supplied services.  
Rates based on consumption provided to DEP by the communities and calculated by MWRA staff.

	Household Usage (HCF)	Household Usage (kgal)	Water	Sewer	Combined
Belmont	94.6	70.8	\$701.44	\$1,296.87	\$1,998.31
Milton	85.6	64.1	\$692.71	\$1,243.88	\$1,936.59
Lexington	127.3	95.3	\$587.54	\$1,079.68	\$1,667.22
Nahant	99.1	74.1	\$734.58	\$879.12	\$1,613.70
Marblehead	92.0	68.8	\$504.60	\$882.00	\$1,386.60
Wellesley	104.2	78.0	\$417.20	\$916.88	\$1,334.09
Wakefield	81.6	61.0	\$510.41	\$800.50	\$1,310.90
Swampscott	85.2	63.7	\$614.84	\$659.00	\$1,273.84
Reading	62.4	46.7	\$624.00	\$634.61	\$1,258.61
Needham	88.6	66.3	\$354.72	\$872.35	\$1,227.07
Dedham	79.1	59.2	\$448.54	\$769.22	\$1,217.75
Ashland	69.7	52.1	\$287.62	\$918.66	\$1,206.27
Hingham	67.2	50.2	\$517.78	\$665.28	\$1,183.06
Walpole	89.6	67.0	\$524.43	\$627.99	\$1,152.42
Canton	83.8	62.7	\$414.80	\$736.76	\$1,151.56
Melrose	53.5	40.0	\$406.22	\$679.83	\$1,086.06
Brookline	74.4	55.7	\$430.72	\$632.00	\$1,062.72
Newton	61.1	45.7	\$425.12	\$636.74	\$1,061.86
Bedford	75.7	56.6	\$359.92	\$650.82	\$1,010.74
Revere	60.2	45.0	\$242.20	\$754.40	\$996.60
Winthrop	60.5	45.3	\$392.60	\$597.96	\$990.56
Stoneham	67.2	50.3	\$379.68	\$601.44	\$981.12
Westwood	79.1	59.2	\$448.54	\$519.36	\$967.90
Northborough	58.7	43.9	\$304.01	\$635.04	\$939.05
Chelsea	68.6	51.3	\$349.52	\$588.24	\$937.76
Stoughton	63.8	47.7	\$313.23	\$622.64	\$935.88
Framingham	64.3	48.1	\$398.03	\$506.42	\$904.45
Marlborough	59.0	44.1	\$420.32	\$433.34	\$853.66
Medford	62.6	46.8	\$340.42	\$507.89	\$848.30
Watertown	64.2	48.0	\$288.51	\$533.23	\$821.74
Holbrook	56.9	42.6	\$380.56	\$433.38	\$813.94
Wilmington	85.6	64.0	\$333.90	\$479.36	\$813.26
Braintree	63.5	47.5	\$305.65	\$499.34	\$804.98
Randolph	58.8	44.0	\$338.14	\$445.14	\$783.28
Quincy	48.0	35.9	\$310.56	\$468.72	\$779.28
Weymouth	56.7	42.4	\$296.40	\$471.91	\$768.31
Somerville	50.1	37.5	\$227.73	\$535.26	\$762.98
Lynn	71.0	53.1	\$255.61	\$469.21	\$724.82
Chicopee	68.7	51.4	\$286.16	\$421.12	\$707.28
Arlington	62.8	47.0	\$320.62	\$381.12	\$701.74
Malden	68.1	50.9	\$303.01	\$371.41	\$674.42
Saugus	83.4	62.4	\$407.19	\$258.96	\$666.15
Norwood	65.0	48.6	\$291.94	\$359.88	\$651.82
Wilbraham	78.9	59.0	\$325.48	\$323.90	\$649.38
Natick	72.6	54.3	\$159.69	\$482.34	\$642.03
Cambridge	44.8	33.5	\$136.35	\$461.14	\$597.49
Leominster	55.1	41.2	\$282.58	\$305.77	\$588.35
Worcester	62.1	46.5	\$227.54	\$351.17	\$578.71
Everett	64.3	48.1	\$150.05	\$408.94	\$558.99
Boston	46.0	34.4	\$227.06	\$319.84	\$546.89
Weston	186.1	139.2	\$535.16	\$0.00	\$535.16
Woburn	112.7	84.3	\$205.00	\$328.00	\$533.00
Winchester	101.4	75.8	\$239.43	\$263.26	\$502.69
Waltham	56.4	42.2	\$173.15	\$307.94	\$481.09
Lynnfield	109.9	82.2	\$434.60	\$0.00	\$434.60
Peabody	66.8	49.9	\$181.32	\$241.66	\$422.98
Southborough	106.0	79.3	\$377.44	\$0.00	\$377.44
Clinton	72.4	54.2	\$207.28	\$155.46	\$362.73
South Hadley	68.4	51.2	\$328.13	\$0.00	\$328.13
Burlington	67.1	50.2	\$94.00	\$145.20	\$239.20
Average (minus non-sewered communities)			\$358.94	\$563.78	\$922.72



# **APPENDIX D**

## **FINAL MWRA FISCAL YEAR 2018 BILLABLE WATER AND SEWER CHARGES**

**MASSACHUSETTS WATER RESOURCES AUTHORITY  
FINAL FY18 BILLABLE WATER AND SEWER CHARGES**

MWRA Customer	Final FY17 Water Assessment	Final FY18 Water Assessment	Percent Change from FY17	Final FY17 Sewer Assessment	Final FY18 Sewer Assessment	Percent Change from FY17	Final FY17 Combined Assessment	Final FY18 Combined Assessment	Dollar Change from FY17	Percent Change from FY17
ARLINGTON	4,976,564	5,218,727	4.9%	7,993,120	8,338,483	4.3%	12,969,684	13,557,210	587,526	4.5%
ASHLAND				2,485,174	2,592,423	4.3%	2,485,174	2,592,423	107,249	4.3%
BEDFORD				3,368,331	3,546,882	5.3%	3,368,331	3,546,882	178,551	5.3%
BELMONT	2,828,456	2,906,748	2.8%	4,825,479	4,922,065	2.0%	7,653,935	7,829,813	175,878	2.3%
BOSTON (BWSC)	82,771,709	85,905,357	3.8%	132,271,845	135,974,820	2.8%	215,043,554	221,880,117	6,836,563	3.2%
BRAINTREE				9,100,270	9,599,185	5.5%	9,100,270	9,599,185	498,915	5.5%
BROOKLINE	7,046,691	6,806,844	-3.4%	12,894,419	12,978,537	0.7%	19,941,110	19,785,381	-155,729	-0.8%
BURLINGTON				5,078,461	5,286,375	4.1%	5,078,461	5,286,375	207,914	4.1%
CAMBRIDGE				23,745,695	24,713,139	4.1%	23,745,695	24,713,139	967,444	4.1%
CANTON	1,673,754	2,538,303	51.7%	4,137,162	4,210,854	1.8%	5,810,916	6,749,157	938,241	16.1%
CHELSEA	4,215,080	4,277,382	1.5%	7,663,315	7,717,861	0.7%	11,878,395	11,995,243	116,848	1.0%
DEDHAM				5,311,572	5,482,446	3.2%	5,311,572	5,482,446	170,874	3.2%
DEDHAM-WESTWOOD WATER DISTRICT							196,381	295,794	99,413	50.6%
EVERETT	4,948,191	5,182,465	4.7%	8,124,101	8,378,885	3.1%	13,072,292	13,561,350	489,058	3.7%
FRAMINGHAM	8,159,808	8,003,044	-1.9%	12,824,962	13,063,056	1.9%	20,984,770	21,066,100	81,330	0.4%
HINGHAM SEWER DISTRICT				1,798,028	1,846,255	2.7%	1,798,028	1,846,255	48,227	2.7%
HOLBROOK				1,759,996	1,804,666	2.5%	1,759,996	1,804,666	44,670	2.5%
LEXINGTON	7,349,661	7,246,531	-1.4%	7,265,670	7,402,979	1.9%	14,615,531	14,649,510	33,979	0.2%
LYNN (LWSC)				243,938	326,368	33.8%	243,938	326,368	82,430	33.8%
LYNNFIELD WATER DISTRICT				643,348	748,610	16.4%	643,348	748,610	105,262	16.4%
MALDEN	6,950,768	6,762,968	-2.7%	12,941,073	13,307,655	2.8%	19,891,841	20,070,623	178,782	0.9%
MARBLEHEAD				2,469,760			2,341,415	2,469,760	128,345	5.5%
MARLBOROUGH	3,887,876	4,902,062	26.1%				3,887,876	4,902,062	1,014,186	26.1%
MEDFORD	6,432,219	6,383,291	-0.8%	11,878,789	12,118,702	2.0%	18,311,008	18,501,993	190,985	1.0%
MELROSE	2,915,635	2,854,570	-2.1%	6,251,952	6,387,893	2.2%	9,167,587	9,242,463	74,876	0.8%
MILTON	3,360,396	3,495,641	4.0%	5,362,055	5,450,348	1.6%	8,722,451	8,945,989	223,538	2.6%
NAHANT				476,532			476,532	537,696	61,164	12.8%
NATICK	1,039,372	1,109,794	6.8%	5,756,705	5,924,062	2.9%	5,756,705	5,924,062	167,357	2.9%
NEEDHAM	12,950,552	12,891,560	-0.5%	5,683,915	5,889,796	3.6%	6,723,287	6,999,590	276,303	4.1%
NEWTON				20,518,241	21,760,724	6.1%	33,468,793	34,652,284	1,183,491	3.5%
NORTHBOROUGH	1,135,772	1,240,294	9.2%	7,023,166	7,436,847	5.9%	1,135,772	1,240,294	104,522	9.2%
NORWOOD	3,652,867	3,703,392	1.4%				3,652,867	3,703,392	50,525	1.4%
PEABODY	1,507,269	1,939,097	28.6%	1,939,097			1,507,269	1,939,097	431,828	28.6%
QUINCY	11,776,311	12,199,555	3.6%	19,971,978	20,574,282	3.0%	31,748,289	32,773,837	1,025,548	3.2%
RANDOLPH				6,272,186	6,339,800	1.1%	6,272,186	6,339,800	67,614	1.1%
READING	2,109,549	2,211,234	4.8%	4,769,928	4,939,434	3.6%	6,879,477	7,150,668	271,191	3.9%
REVERE	4,943,964	4,896,715	-1.0%	10,611,549	10,775,969	1.5%	15,555,513	15,672,684	117,171	0.8%
SAUGUS	3,692,889	3,953,935	7.1%				3,692,889	3,953,935	261,046	7.1%
SOMERVILLE	7,658,290	7,928,695	3.5%	15,918,035	16,508,256	3.7%	23,576,325	24,436,951	860,626	3.7%
SOUTHBOROUGH	948,422	997,207	5.1%				948,422	997,207	48,785	5.1%
STONEHAM	3,174,690	3,027,480	-4.6%	4,542,049	4,600,334	1.3%	7,716,739	7,627,814	-88,925	-1.2%
STOUGHTON	1,144,245	253,810	-77.8%	4,747,341	5,031,822	6.0%	5,891,586	5,285,632	-605,954	-10.3%
SWAMPSCOTT	1,834,151	1,892,557	3.2%				1,834,151	1,892,557	58,406	3.2%
WAKEFIELD	1,852,218	2,169,915	17.2%	5,813,697	6,075,836	4.5%	7,665,915	8,245,751	579,836	7.6%
WALPOLE				3,713,877	3,821,880	2.9%	3,713,877	3,821,880	108,003	2.9%
WALTHAM	9,384,159	9,038,537	-3.7%	13,122,122	13,521,664	3.0%	22,506,281	22,560,201	53,920	0.2%
WATERTOWN	3,290,986	3,389,389	3.0%	5,971,377	6,103,914	2.2%	9,262,363	9,492,303	229,940	2.5%
WELLESLEY	1,056,294	1,742,278	64.9%	5,459,750	5,601,602	2.6%	6,516,044	7,343,880	827,836	12.7%
WESTON	2,445,970	2,818,905	15.2%				2,445,970	2,818,905	372,935	15.2%
WESTWOOD				2,598,265	2,777,442	6.9%	2,598,265	2,777,442	179,177	6.9%
WEYMOUTH				11,765,811	12,036,129	2.3%	11,765,811	12,036,129	270,318	2.3%
WILMINGTON	703,075	776,226	10.4%	2,595,601	2,804,912	8.1%	3,298,676	3,581,138	282,462	8.6%
WINCHESTER	1,544,349	2,121,826	37.4%	4,033,770	4,144,555	2.7%	5,578,119	6,266,381	688,262	12.3%
WINTHROP	1,643,615	1,615,822	-1.7%	3,320,069	3,395,228	2.3%	4,963,684	5,011,050	47,366	1.0%
WOBURN	3,355,306	3,636,173	8.4%	9,324,662	9,449,446	1.3%	12,679,968	13,085,619	405,651	3.2%
<b>TOTAL</b>	<b>\$234,262,737</b>	<b>\$242,415,557</b>	<b>3.5%</b>	<b>\$460,615,763</b>	<b>\$474,638,443</b>	<b>3.0%</b>	<b>\$694,878,500</b>	<b>\$717,053,940</b>	<b>\$22,175,440</b>	<b>3.2%</b>

(1) Some communities receive partial water or sewer services from MWRA.

# **APPENDIX E**

## **ADDITIONAL 2017 DATA FOR MWRA COMMUNITIES**

<b>PERCENTAGE OF WATER UNACCOUNTED FOR</b>
--

No answer	5
0 – 5%	7
5 – 10%	18
10 – 15%	12
15+%	18
Invalid Data	0
Not applicable	0

<b>PERCENTAGE OF WATER SERVICE BILLS LIENED</b>
---

No answer	3
0 – 5%	41
5 – 10%	10
10 – 15%	3
15+%	3
Invalid Data	0
Not applicable	0

<b>PERCENTAGE OF SEWER SERVICE BILLS LIENED</b>
---

No answer	5
0 – 5%	32
5 – 10%	13
10 – 15%	2
15+%	4
Invalid Data	0
Not applicable	4

<b>COMMUNITIES WITH SHORTFALLS DUE TO LOWER THAN PROJECTED WATER USE (WATER FUNDS)</b>
--

No answer	4
Yes	18
No	38
Invalid Data	0
Not applicable	0

<b>COMMUNITIES WITH SHORTFALLS DUE TO LOWER THAN PROJECTED WATER USE (SEWER FUNDS)</b>
--

No answer	4
Yes	15
No	37
Invalid Data	0
Not applicable	4

<b>MWRA CHARGES AS A PERCENTAGE OF TOTAL EXPENSES (WATER FUNDS)</b>
---

No answer	5
0 – 25%	16
25 – 50%	17
50 – 75%	19
75+%	3
Not applicable	0

<b>MWRA CHARGES AS A PERCENTAGE OF TOTAL EXPENSES (SEWER FUNDS)</b>
---

No answer	7
0 – 25%	11
25 – 50%	7
50 – 75%	17
75+%	14
Not applicable	4

<b>NUMBER OF MILES OF WATER PIPELINE REHABILITATED OR REPLACED IN FY16</b>
--

No answer	2
Less than 1	26
1 – 3 miles	22
3 – 6 miles	7
6+ miles	3
Invalid Data	0
Not applicable	0

<b>NUMBER OF MILES OF SEWER PIPELINE REHABILITATED OR REPLACED IN FY16</b>
--

No answer	4
Less than 1	28
1 – 3 miles	16
3 – 6 miles	4
6+ miles	4
Invalid Data	0
Not applicable	4

<b>ACTUAL WATER CAPITAL NEEDS OVER NEXT FIVE YEARS</b>
--

No answer	2
\$0 – \$10 million	36
\$10 – \$20 million	14
\$20 – \$50 million	3
\$50+ million	5
Invalid Data	0
Not applicable	0

<b>ANTICIPATED WATER CAPITAL SPENDING OVER NEXT FIVE YEARS</b>
--

No answer	5
\$100 thousand – \$1 million	7
\$1 – \$5 million	22
\$5 – \$10 million	16
\$10+ million	10
Invalid Data	0
Not applicable	0

<b>ACTUAL SEWER CAPITAL NEEDS OVER NEXT FIVE YEARS</b>
--

No answer	5
\$0 – \$10 million	29
\$10 – \$20 million	9
\$20 – \$50 million	7
\$50+ million	6
Invalid Data	0
Not applicable	4

<b>ANTICIPATED SEWER CAPITAL SPENDING OVER NEXT FIVE YEARS</b>
--

No answer	2
\$100 thousand – \$1 million	5
\$1 – \$5 million	23
\$5 – \$10 million	19
\$10+ million	7
Invalid Data	0
Not applicable	4

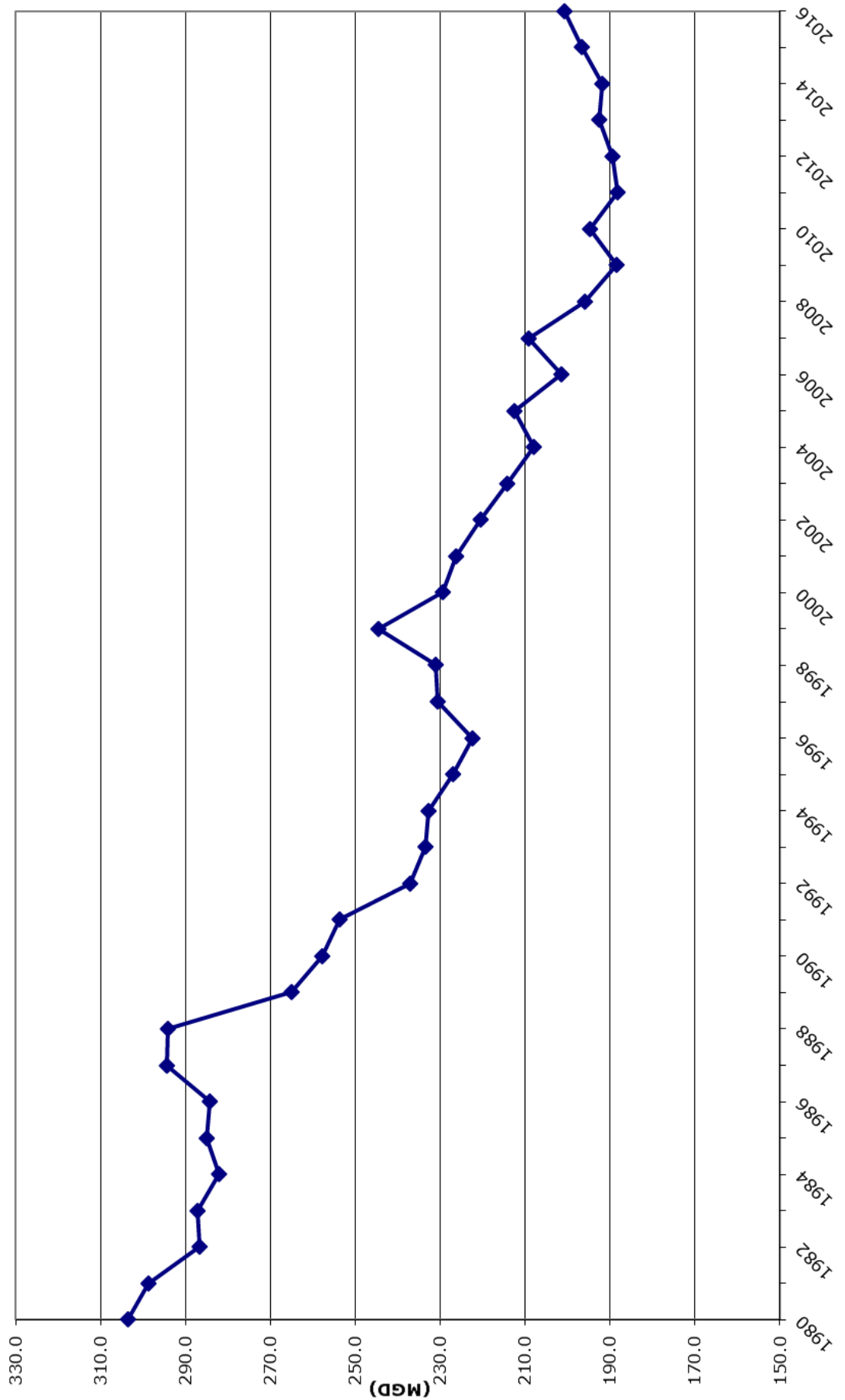
<b>HOW COMMUNITIES RECOVER STORMWATER COSTS (SEE APPENDIX G)</b>
--

No answer	1
Water/Sewer Rates	12
Special Assessment	4
DPW Budget	40
Invalid Data	0
Not applicable	2
Other	1

# **APPENDIX F**

## **MWRA Water System Sales 1980 – 2016**

# **MWRA System Sales** (Calendar Year 1980 through 2016)





# **APPENDIX G**

## **2017 STORMWATER FEES**

## STORMWATER: The New Challenge for Municipalities

### BACKGROUND – WHAT IS STORMWATER?

“Stormwater” is a term used to describe the result of rain storms, snow storms, and other wet weather events. Though stormwater can be taken care of naturally by the ground and surface waters – i.e. streams, tributaries, rivers, etc. – this natural process is disrupted by **impervious area (IA)**, such as concrete roadways, driveways or parking lots, and the roofs of buildings, all of which divert water.

To combat this disruption, communities must direct stormwater to natural or man-made outlets which can treat the water to ensure that water quality is not negatively impacted by chemical and biological materials which can be carried by the flow of stormwater into nearby bodies of water.

### NEW CHALLENGES – STRINGENT FEDERAL REGULATIONS

To protect the many bodies of water that can be easily impacted by stormwater, the Environmental Protection Agency (EPA) has advanced the Stormwater Permitting Program through its **National Pollutant Discharge Elimination System (NPDES)** to mitigate these impacts. The regulatory requirements for stormwater were rolled out in the form of the **Municipal Separate Storm Sewer Systems (MS4)** general permit. With the general permit for stormwater discharges expected to be effective in the next year.

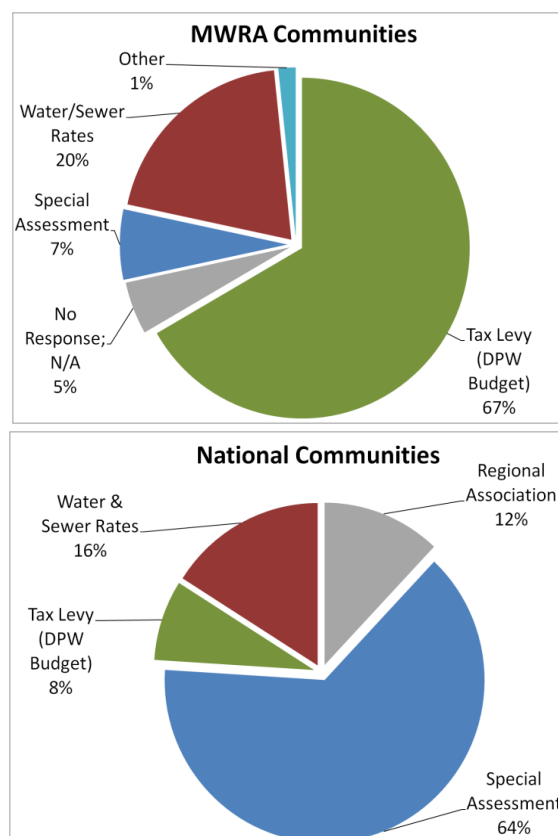
Due to these most recent MS4 permit revisions and new NPDES permits being issued, municipalities across the United States are facing increased needs for funding of new stormwater infrastructure and ongoing infrastructure maintenance and rehabilitation. New challenges in stormwater management include meeting **Phosphorus Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)** and creating public outreach programs to educate residents on stormwater challenges, solutions and costs.

### FUNDING STORMWATER INFRASTRUCTURE

Because of increasing local taxes and water/sewer rates over the past two decades, communities are looking at other mechanisms to fund their growing stormwater costs. Nationally, special assessments known as **Stormwater Fees, Drainage Fees or Impervious Area Charges** have become commonplace for municipalities in need of a designated funding source, but they have also been met by some public backlash, sometimes being referred to by opponents as a “Rain Tax.”

Of the MWRA’s 60 communities (Chart 1), only 3 have implemented a stormwater fee to recover stormwater-related costs. An additional community has approved a structure for funding stormwater costs which will be in place for next year’s survey. A majority of MWRA communities continue to pay for stormwater projects through their DPW budgets, supported by the tax levy, or through increases to their water and sewer rates.

Of the 25 national communities (Chart 2) surveyed, 16 have implemented a stormwater fee to fund stormwater-related costs. Additionally, 3 national communities surveyed have their stormwater-related costs and revenue generated by a regional agency, such as a county system. This year's survey includes more detailed information about each national community’s storm water financing methodologies. This information should be helpful for MWRA communities as they prepare for the new MS4 permit to be effective.



**TYPES OF STORMWATER FEES**

For the purpose of equitably distributing the rising cost of stormwater management across communities, municipalities generally have two different structures for stormwater fees: **residential** and **commercial**. For municipalities with a significant industrial base, a third structure can exist. Because commercial and industrial properties generally have more impervious area, these rate structures tend to be variable.

Calculating the impervious area of all residential parcels can be costly, so residential units are often charged at a flat rate that is based on the impervious area of an average residential unit in the community – this is generally referred to as an **Equivalent Residential Unit (ERU)**. The below table is a breakout of the structure used by each of the surveyed communities that have implemented some form of a stormwater fee at the time this document was printed, and the **annual cost to a residential unit with 2,000 square feet of impervious area**.

Community	Basis	Residential Rate Structure (IA = 2,000 Sq Ft)	Annual Cost Residential (2,000 Sq Ft)
<b>NATIONAL COMMUNITIES</b>			
Austin, TX	IA (Acre)	Online Calculator - <a href="http://www.AustinTexas.gov">www.AustinTexas.gov</a>	
Columbus, OH	Tier (ERU)	\$4.61/mth	\$ 55
Dallas, TX	Flat	\$3.65/mth	\$ 44
Detroit, MI	IA (Acre)	\$30.35/mth	\$ 364
Fort Worth, TX	Tier (ERU)	\$5.40/mth	\$ 65
Houston, TX	IA (Sq Ft)	\$0.032 per sq ft	\$ 64
Jacksonville, FL	Tier (Sq Ft)	\$5.00/mth	\$ 60
Milwaukee, WI	Tier (ERU)	\$19.22/qtr	\$ 77
Philadelphia, PA	IA (Sq Ft)	Online Calculator - <a href="http://www.Phila.gov">www.Phila.gov</a>	
Portland, ME	Tier (ERU)	\$12.00/mth	\$ 144
Saint Paul, MN	Flat	\$88.35/year	\$ 85
San Antonio, TX	Tier (Sq Ft)	\$3.22/mth	\$ 39
San Diego, CA	Flat	\$ .95/mth	\$ 11
San Jose, CA	Flat	\$7.87/mth	\$ 94
Seattle, WA	Flat	\$206.93/year	\$ 207
Washington, DC	Tier (ERU)	22.24 + \$2.67/mth	\$ 299
<b>MWRA COMMUNITIES</b>			
Chicopee, MA	Flat	\$25.00/qtr	\$ 100
Reading, MA	Flat	\$10.00/qtr	\$ 40
Newton, MA	Flat	\$18.75/qtr	\$ 25
<b>MA. COMMUNITIES (NON-MWRA)</b>			
Fall River, MA	Flat	\$140.00/year	\$ 140
Northampton, MA	Tier (Sq Ft)	\$63.94/year	\$ 64
Westfield, MA	Flat	\$20.00/year	\$ 20

## MWRA ADVISORY BOARD MEMBERS

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BOSTON  
BRAINTREE  
BROOKLINE  
BURLINGTON  
CAMBRIDGE  
CANTON  
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LEOMINSTER  
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MILTON  
NAHANT  
NATICK  
NEEDHAM  
NEWTON  
NORTHBOROUGH  
NORWOOD  
PEABODY  
QUINCY  
RANDOLPH  
READING  
REVERE  
SAUGUS  
SOMERVILLE  
SOUTH HADLEY  
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STONEHAM  
STOUGHTON  
SWAMPSCOTT  
WAKEFIELD  
WALPOLE  
WALTHAM  
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Michael Trotta  
Lou Mammolette\*  
  
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Peter Sellers /Blake Lukis  
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William Shaughnessy  
  
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Kenan J. Connell/Kenneth Morse  
  
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James Gibbons  
Thomas E. Reilly  
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Paul J. Moosey

### Gubernatorial Appointees

*Quabbin and Ware Watershed –J. R. Greene*  
*Wachusett Watershed – Barbara Wyatt*  
*Environmental Protection –*  
*Andrew Chalker Fisk*  
*Connecticut River Basin –*  
*Richard N. Palmer*  
*Boston Harbor – Vacant (2)*

### MAPC Appointee:

*Moe Handel\**

### Advisory Board Designees to the MWRA Board of Directors:

*John Carroll – Norwood*  
*Andrew Pappastergion - Brookline*  
*Joseph Foti - Chelsea*

\*Member of the Executive Committee

\*\* Chairman of the Executive Committee