



Annual Water and Sewer Retail Rate Survey

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

2018



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.

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MWRA Advisory Board

2018

Annual Water and Sewer Retail Rate Survey

Joseph E. Favaloro
Executive Director



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Introduction

This is the thirtieth “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 Guidod, Travis Ahern, and Lenna Ostrodka 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 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.

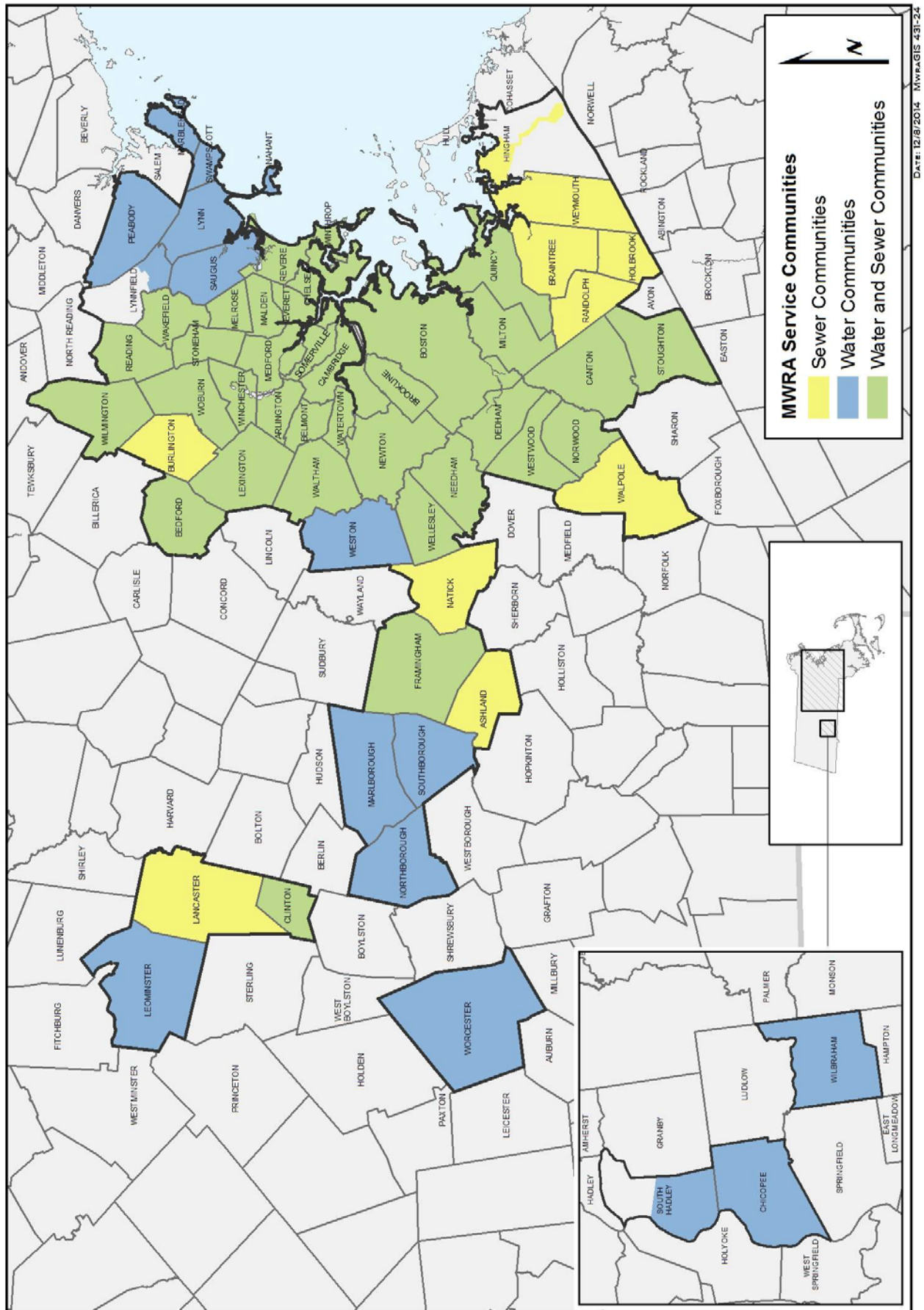
The MWRA Advisory Board

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.

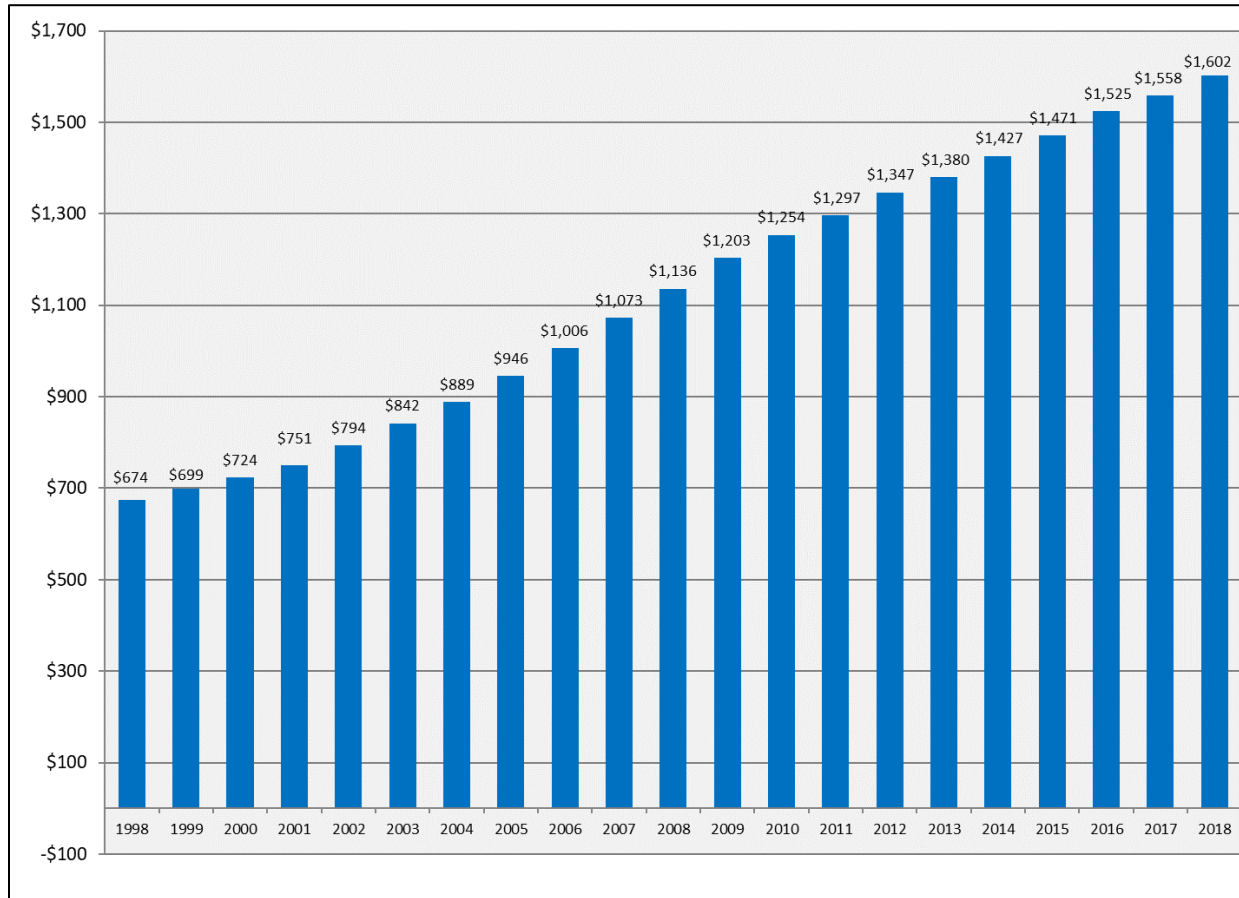
MWRA COMMUNITY 2018 WATER AND SEWER CHARGES



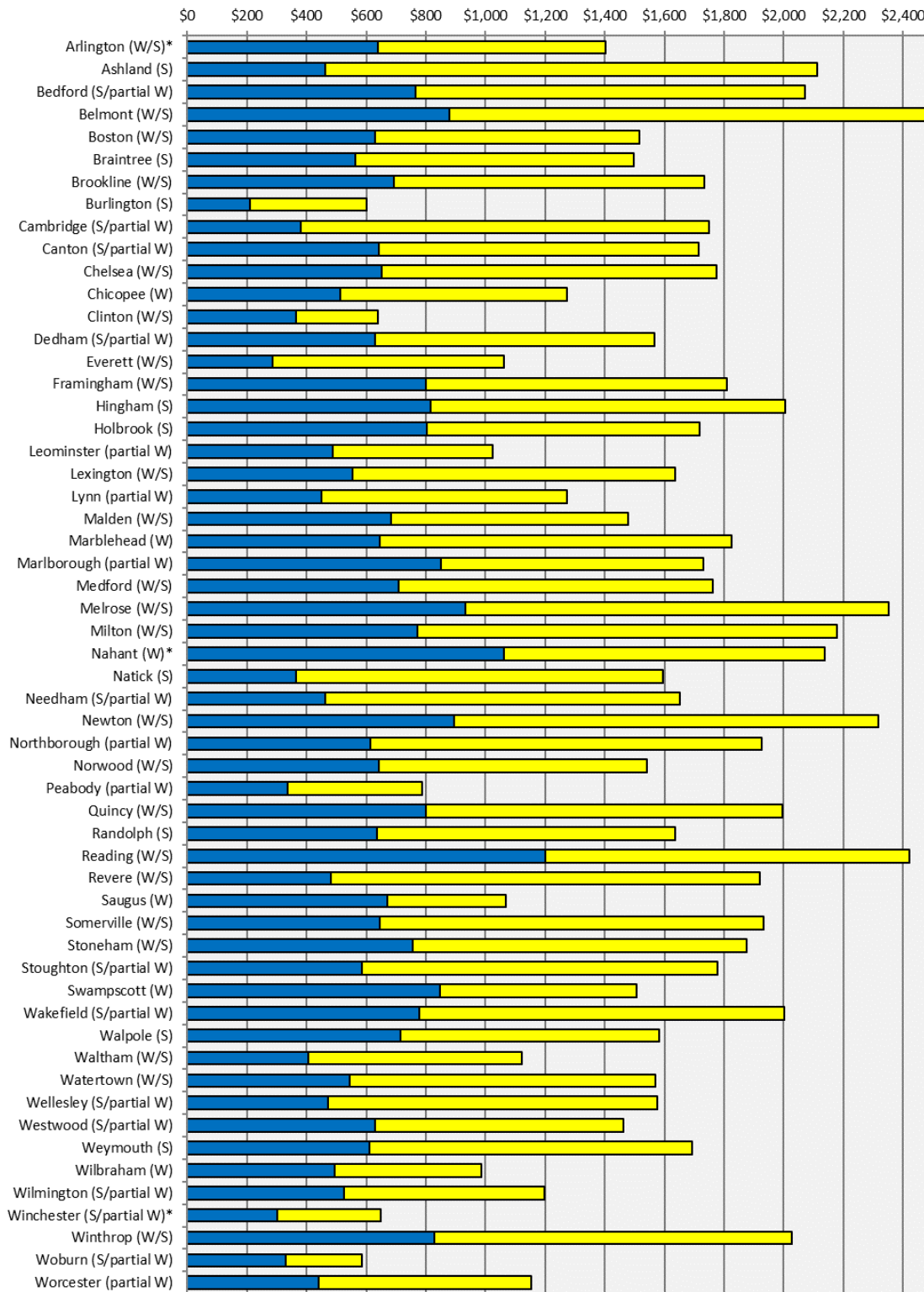
Combined Annual Water & Sewer Charges in MWRA Communities

1998 – 2018

(Consumption at 120 HCF ≈ 90 kgal)



2018 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)

MWRA SYSTEMWIDE SUMMARY DATA		
2018		
	2017	2018
Avg. combined water and sewer cost	\$1,558.47	\$1,602.14
Percent change from prior year	2.2%	2.8%
<u>WATER BILLING FREQUENCY</u>		
Semi-Annual	8	8
Tri-Annual	2	2
Quarterly	42	42
Bi-Monthly	2	2
Monthly	6	6
<u>WATER RATE STRUCTURE</u>		
Ascending Block with Base/Minimum Charge	34	35
Ascending Block only	12	12
Flat Rate with Base/Minimum Charge	7	7
Flat Rate only	6	5
Fixed Fee	1	1
<u>SENIOR CITIZEN/LOW-INCOME DISCOUNTS</u>		
Senior Discount	17	17
Low-Income Discount	7	7
Both	7	7
Neither	29	29
<u>DEBT SERVICE EXCLUSION</u>		
	3	3
<u>CHANGES IN COMBINED WATER AND SEWER CHARGES</u>		
Decrease	3	2
No change	16	16
0% to 10% increase	38	39
10% to 20% increase	3	3
20% to 30% increase	0	0
30% to 40% increase	0	0
40% to 50% increase	0	0
Greater than 50% increase	0	0

ANNUAL WATER AND SEWER CHARGES IN COMMUNITIES RECEIVING SERVICES FROM THE MWRA 2018		
	Water	Sewer
Arlington (W/S)*	\$640.62	\$761.82
Ashland (S)	-	1,649.60
Bedford (S/partial W)	767.00	1,305.00
Belmont (W/S)	877.88	1,622.20
Boston (W/S)	631.32	885.53
Braintree (S)	-	933.00
Brookline (W/S)	694.40	1,040.80
Burlington (S)	-	391.50
Cambridge (S/partial W)	380.00	1,370.40
Canton (S/partial W)	643.40	1,073.00
Chelsea (W/S)	650.40	1,125.60
Chicopee (W)	514.00	-
Clinton (W/S)	364.70	273.53
Dedham (S/partial W)	629.28	937.28
Everett (W/S)	285.60	777.60
Framingham (W/S)	801.00	1,009.44
Hingham (S)	-	1,188.00
Holbrook (S)	-	915.60
Leominster (partial W)	488.24	-
Lexington (W/S)	554.00	1,083.60
Lynn (partial W)	449.04	-
Lynnfield (W)	436.30	-
Malden (W/S)	682.08	797.76
Marblehead (W)	647.00	-
Marlborough (partial W)	852.00	-
Medford (W/S)	707.52	1,055.28
Melrose (W/S)	931.60	1,419.32
Milton (W/S)	771.60	1,405.92
Nahant (W)*	1,063.20	-
Natick (S)	-	1,232.00
Needham (S/partial W)	461.40	1,191.96
Newton (W/S)	894.80	1,424.00
Northborough (partial W)	614.48	-
Norwood (W/S)	643.20	899.28
Peabody (partial W)	337.20	-
Quincy (W/S)	800.40	1,196.16
Randolph (S)	-	1,001.20
Reading (W/S)	1,200.00	1,220.40
Revere (W/S)	481.20	1,437.60
Saugus (W)	670.66	-
Somerville (W/S)	645.03	1,287.06
South Hadley (W)	530.40	-
Southborough (W)	437.08	-
Stoneham (W/S)	754.80	1,120.80
Stoughton (S/partial W)	585.24	1,192.80
Swampscott (W)	848.00	-
Wakefield (S/partial W)	777.60	1,225.80
Walpole (S)	-	867.74
Waltham (W/S)	407.28	715.32
Watertown (W/S)	546.00	1,023.60
Wellesley (S/partial W)	471.96	1,102.80
Weston (W)	316.60	-
Westwood (S/partial W)	629.28	832.00
Weymouth (S)	-	1,080.88
Wilbraham (W)	494.40	-
Wilmington (S/partial W)	525.20	672.00
Winchester (S/partial W)*	302.60	345.60
Winthrop (W/S)	829.20	1,198.80
Woburn (S/partial W)	329.78	256.52
Worcester (partial W)	440.40	-
AVERAGE	\$616.40	\$1,035.14
Percent change	3.3%	2.92%

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 2018

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) *	\$640.62	\$761.82	\$1,402.44	4.6%
Ashland (S)	\$462.00	\$1,649.60	\$2,111.60	4.1%
Bedford (S/partial W)	\$767.00	\$1,305.00	\$2,072.00	8.6%
Belmont (W/S)	\$877.88	\$1,622.20	\$2,500.08	0.5%
Boston (W/S)	\$631.32	\$885.53	\$1,516.85	4.7%
Braintree (S)	\$562.80	\$933.00	\$1,495.80	3.1%
Brookline (W/S)	\$694.40	\$1,040.80	\$1,735.20	1.9%
Burlington (S)	\$210.04	\$391.50	\$601.54	2.3%
Cambridge (S/partial W)	\$380.00	\$1,370.40	\$1,750.40	5.8%
Canton (S/partial W)	\$643.40	\$1,073.00	\$1,716.40	0.0%
Chelsea (W/S)	\$650.40	\$1,125.60	\$1,776.00	8.0%
Chicopee (W)	\$514.00	\$758.32	\$1,272.32	0.0%
Clinton (W/S)	\$364.70	\$273.53	\$638.23	3.0%
Dedham (S/partial W)	\$629.28	\$937.28	\$1,566.56	0.0%
Everett (W/S)	\$285.60	\$777.60	\$1,063.20	2.1%
Framingham (W/S)	\$801.00	\$1,009.44	\$1,810.44	2.3%
Hingham (S)	\$816.68	\$1,188.00	\$2,004.68	0.0%
Holbrook (S)	\$804.00	\$915.60	\$1,719.60	0.0%
Leominster (partial W)	\$488.24	\$534.68	\$1,022.92	2.5%
Lexington (W/S)	\$554.00	\$1,083.60	\$1,637.60	6.3%
Lynn (partial W)	\$449.04	\$824.76	\$1,273.80	3.9%
Malden (W/S)	\$682.08	\$797.76	\$1,479.84	3.0%
Marblehead (W)	\$647.00	\$1,179.00	\$1,826.00	3.0%
Marlborough (partial W)	\$852.00	\$878.40	\$1,730.40	0.0%
Medford (W/S)	\$707.52	\$1,055.28	\$1,762.80	4.0%
Melrose (W/S)	\$931.60	\$1,419.32	\$2,350.92	1.6%
Milton (W/S)	\$771.60	\$1,405.92	\$2,177.52	1.9%
Nahant (W) *	\$1,063.20	\$1,075.20	\$2,138.40	9.3%
Natick (S)	\$363.60	\$1,232.00	\$1,595.60	9.1%
Needham (S/partial W)	\$461.40	\$1,191.96	\$1,653.36	0.0%
Newton (W/S)	\$894.80	\$1,424.00	\$2,318.80	4.4%
Northborough (partial W)	\$614.48	\$1,312.64	\$1,927.12	0.0%
Norwood (W/S)	\$643.20	\$899.28	\$1,542.48	6.6%
Peabody (partial W)	\$337.20	\$451.80	\$789.00	0.0%
Quincy (W/S)	\$800.40	\$1,196.16	\$1,996.56	2.5%
Randolph (S)	\$635.60	\$1,001.20	\$1,636.80	5.0%
Reading (W/S)	\$1,200.00	\$1,220.40	\$2,420.40	0.0%
Revere (W/S)	\$481.20	\$1,437.60	\$1,918.80	-3.1%
Saugus (W)	\$670.66	\$396.80	\$1,067.46	2.5%
Somerville (W/S)	\$645.03	\$1,287.06	\$1,932.09	2.9%
Stoneham (W/S)	\$754.80	\$1,120.80	\$1,875.60	7.1%
Stoughton (S/partial W)	\$585.24	\$1,192.80	\$1,778.04	1.5%
Swampscott (W)	\$848.00	\$659.00	\$1,507.00	0.0%
Wakefield (S/partial W)	\$777.60	\$1,225.80	\$2,003.40	3.9%
Walpole (S)	\$715.34	\$867.74	\$1,583.09	2.6%
Waltham (W/S)	\$407.28	\$715.32	\$1,122.60	0.0%
Watertown (W/S)	\$546.00	\$1,023.60	\$1,569.60	2.5%
Wellesley (S/partial W)	\$471.96	\$1,102.80	\$1,574.76	3.4%
Westwood (S/partial W)	\$629.28	\$832.00	\$1,461.28	1.3%
Weymouth (S)	\$611.80	\$1,080.88	\$1,692.68	2.9%
Wilbraham (W)	\$494.40	\$492.00	\$986.40	0.0%
Wilmington (S/partial W)	\$525.20	\$672.00	\$1,197.20	2.1%
Winchester (S/partial W) *	\$302.60	\$345.60	\$648.20	0.0%
Winthrop (W/S)	\$829.20	\$1,198.80	\$2,028.00	3.0%
Woburn (S/partial W)	\$329.78	\$256.52	\$586.30	10.0%
Worcester (partial W)	\$440.40	\$713.28	\$1,153.68	3.0%
AVERAGE	\$623.18	\$978.96	\$1,602.14	2.80%

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: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge per bill \$ 5.35
 First 15 HCF/bill \$ 4.99/HCF
 16 – 30 HCF \$ 5.33 "
 >30 HCF \$ 6.47 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 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 2017
Water	\$640.62	4.81%
Sewer	\$761.82	4.36%
Combined	\$1,402.44	4.56%

Annual Cost Based on Local, State & Federal Data

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

Water	\$312.95
Sewer	\$370.20
Combined	\$683.15

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 2018 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	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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	\$5-10 million	Anticipated Sewer Capital Spending over Next Five Years	\$5-10 million
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

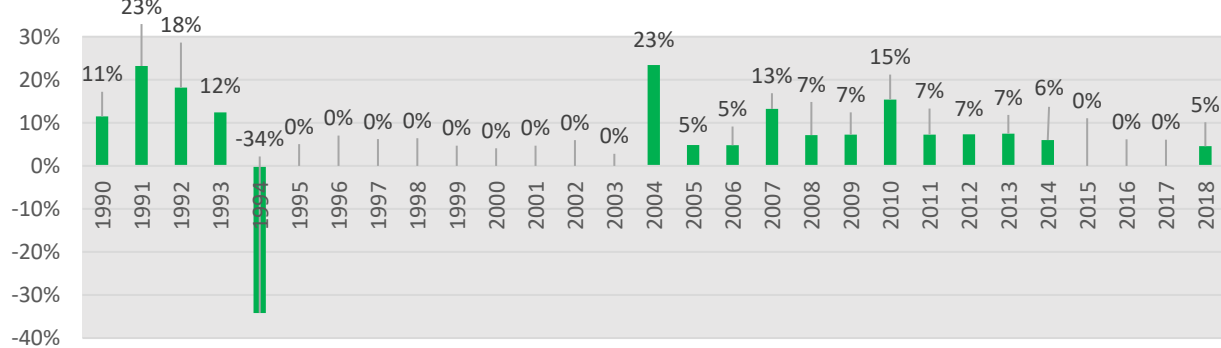
Arlington (W/S)

FY 2019 MWRA Assessments

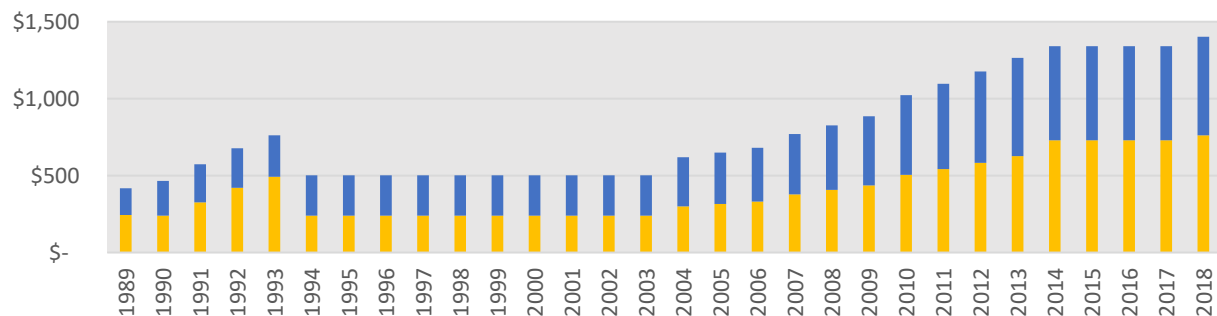
	FY18	FY19	% Change
Water	\$5,218,727	\$5,207,787	-0.20%
Sewer	\$8,338,483	\$8,649,531	3.70%
Combined	\$13,557,210	\$13,857,318	2.20%



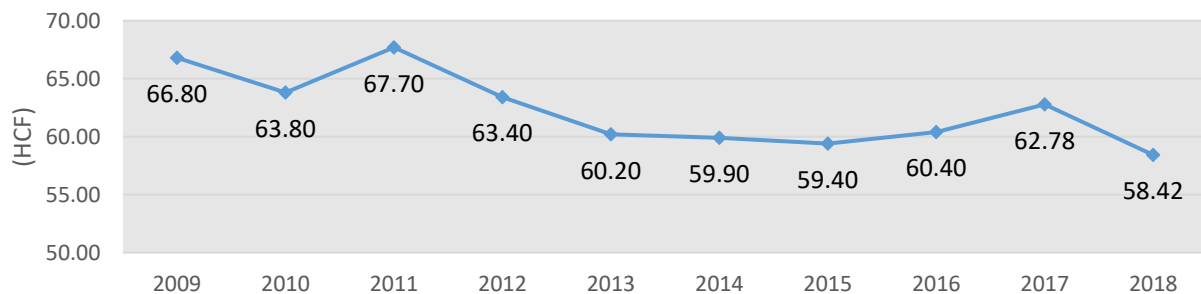
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Base charge per bill \$ 16.00
 0 – 10 HCF \$ 12.50/HCF
 >10 - 40 HCF \$ 13.57 "
 >40 - 90 HCF \$ 15.10 "
 >90 HCF \$ 18.76 "

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 2017
Water	\$462.00	0.00%
Sewer	\$1,649.60	5.28%
Combined	\$2,111.60	4.08%

Annual Cost Based on Local, State & Federal Data

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

Water	\$280.29
Sewer	\$936.94
Combined	\$1,217.23

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Both
Water System		Sewer System	
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

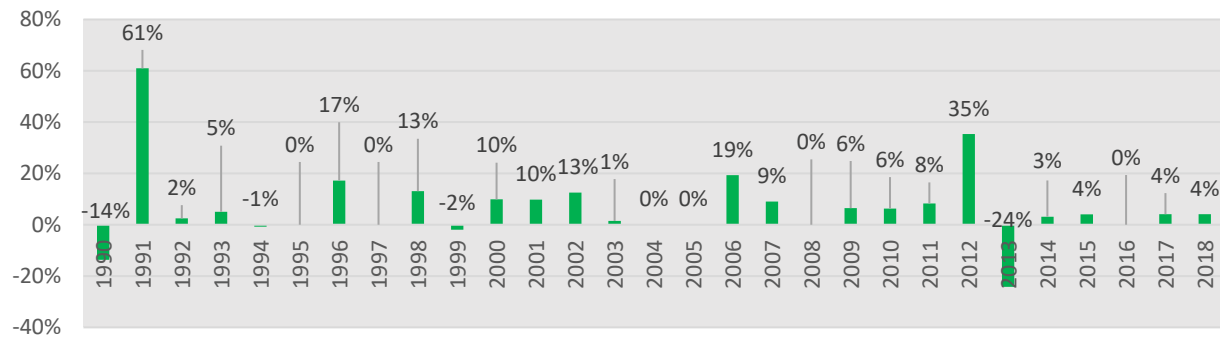
Ashland (S)

FY 2019 MWRA Assessments

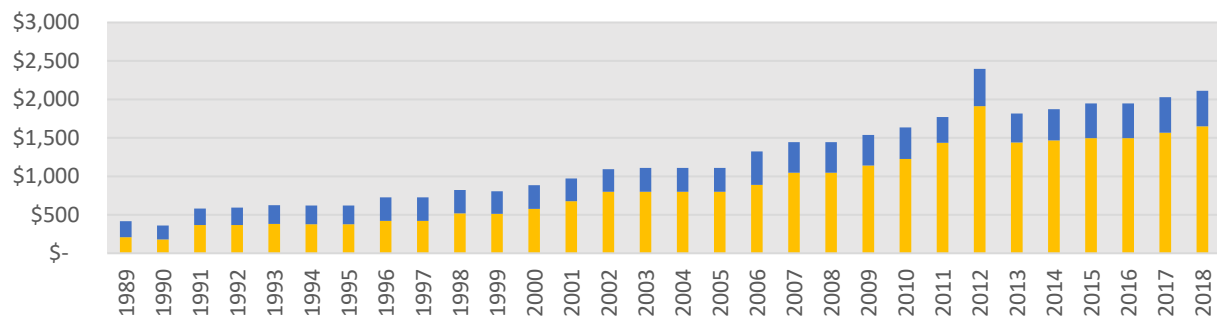
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$2,592,423	\$2,693,503	3.90%
Combined	\$2,592,423	\$2,693,503	3.90%



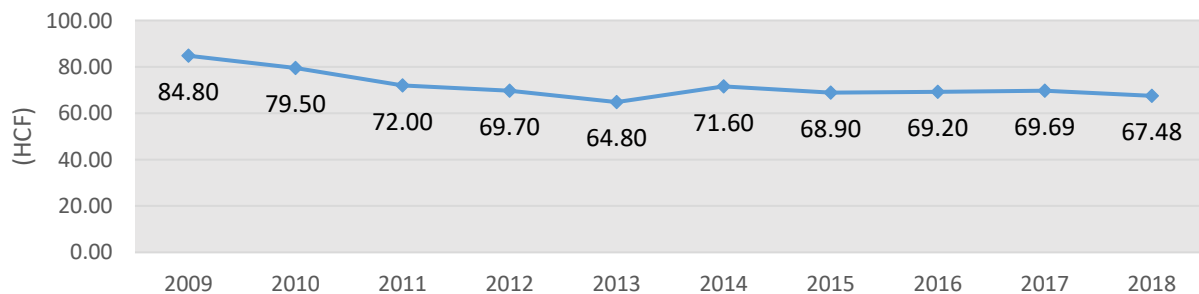
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Bedford (S/partial W)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: Unknown
 Fund: General

Base charge per bill \$17.50
 0 – 20 HCF \$ 1.70/HCF
 >20 HCF \$ 8.30 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: Unknown
 Fund: General

Base charge per bill \$22.50
 0 – 20 HCF \$ 3.70/HCF
 >20 HCF \$ 13.90 "

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 2017
Water	\$767.00	11.64%
Sewer	\$1,305.00	6.88%
Combined	\$2,072.00	8.60%

Annual Cost Based on Local, State & Federal Data

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

Water	\$310.80
Sewer	\$541.01
Combined	\$851.81

Commercial Water Rates:

Base charge per bill \$35.00/year
 0 – 3.33 HCF \$ 1.70/HCF
 >3.33 HCF \$ 8.30/HCF

Commercial Sewer Rates:

Base charge per bill \$45.00/year
 0 – 3.33 HCF \$ 3.70/HCF
 >3.33 HCF \$13.90/HCF

Additional 2018 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 FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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 (DPW Budget)	

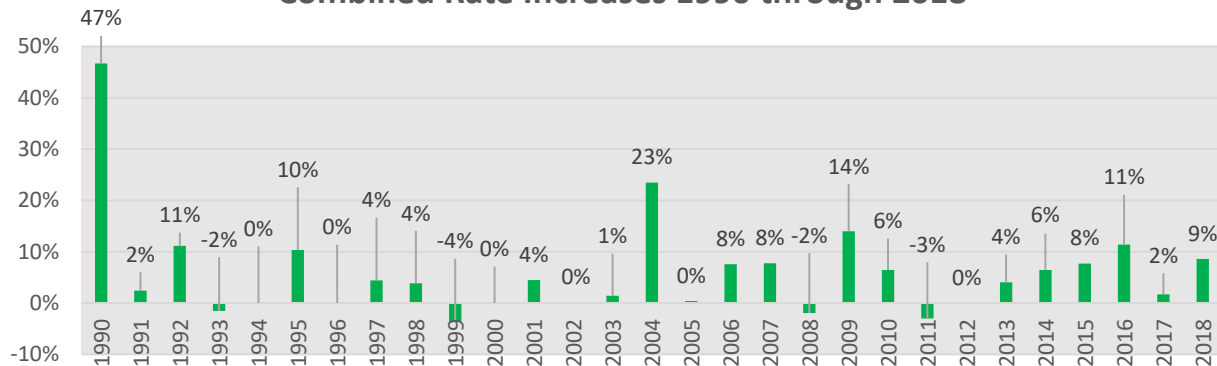
Bedford (S/partial W)

FY 2019 MWRA Assessments

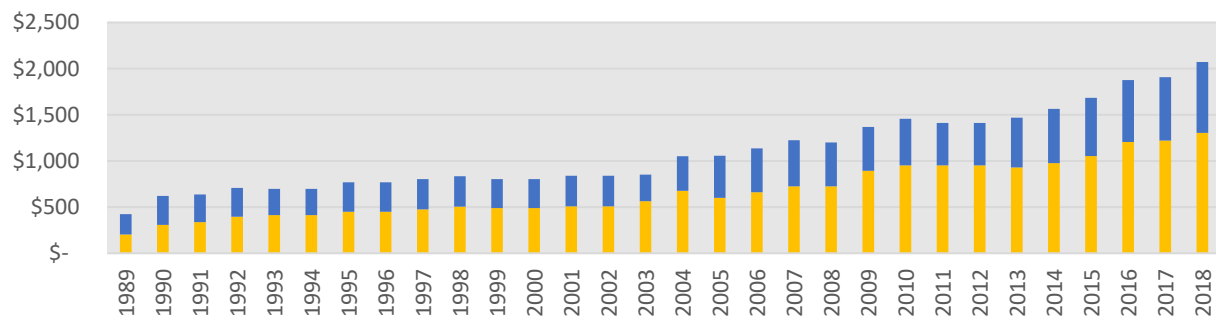
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$3,546,882	\$3,655,178	3.10%
Combined	\$3,546,882	\$3,655,178	3.10%



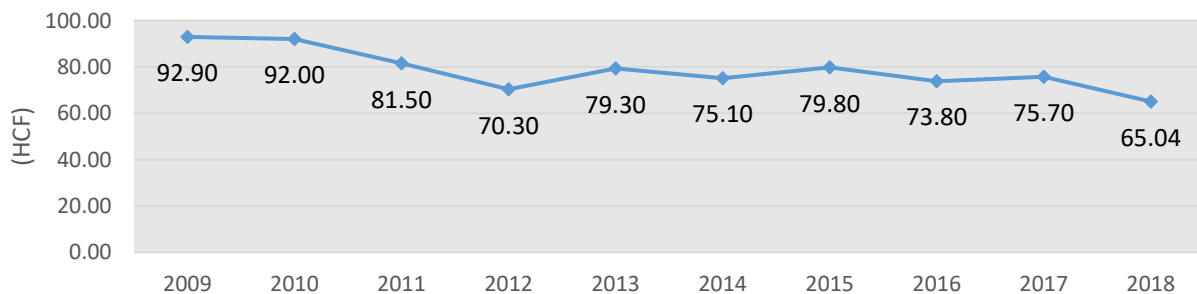
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Belmont (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge per bill \$20.87
 0 – 30 HCF \$ 6.62/HCF
 >30 HCF \$ 7.59 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2017
 Next adjustment scheduled: July 2019
 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 2017
Water	\$877.88	1.37%
Sewer	\$1,622.20	0.00%
Combined	\$2,500.08	0.48%

Annual Cost Based on Local, State & Federal Data

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

Water	\$660.26
Sewer	\$1,197.80
Combined	\$1,858.05

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Both
Water System		Sewer System	
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 FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

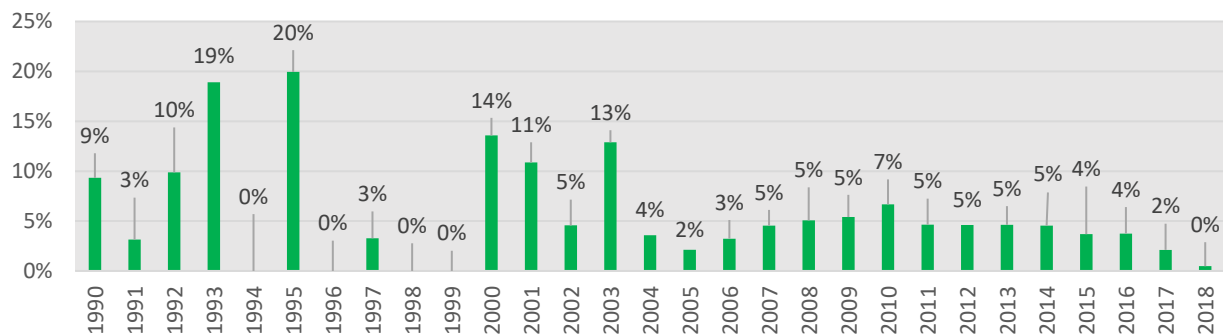
Belmont (W/S)

FY 2019 MWRA Assessments

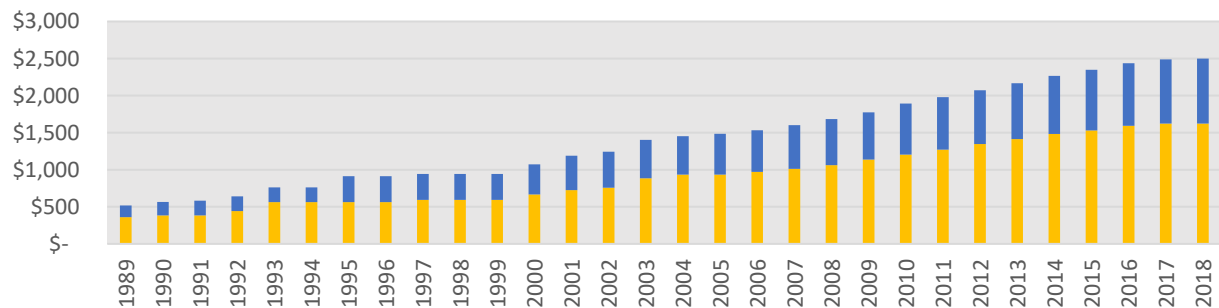
	FY18	FY19	% Change
Water	\$2,906,748	\$2,845,415	-2.10%
Sewer	\$4,923,065	\$5,092,015	3.40%
Combined	\$7,829,813	\$7,937,430	1.40%



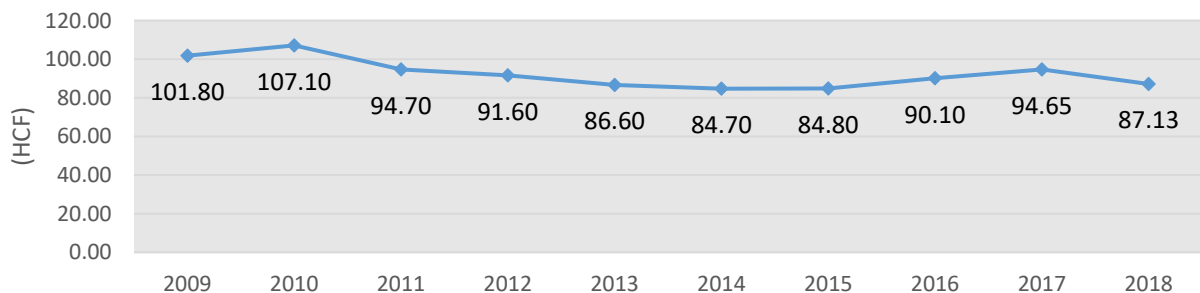
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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

Residential Water Rates:

Last adjusted: January 2018
 Next adjustment scheduled: January 2019
 Fund: Enterprise

First 19 CF/Day	\$5.159/HCF
Next 20 CF	\$5.401 "
Next 50 CF	\$5.624 "
Next 260 CF	\$5.980 "
Next 950 CF	\$6.239 "
Over 1,299 CF	\$6.457 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: January 2018
 Next adjustment scheduled: January 2019
 Fund: Enterprise

First 19 CF/Day	\$7.285/HCF
Next 20 CF	\$7.509 "
Next 50 CF	\$7.661 "
Next 260 CF	\$8.082 "
Next 950 CF	\$8.529 "
Over 1,299 CF	\$8.823 "

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 2017
Water	\$631.32	4.52%
Sewer	\$885.53	4.84%
Combined	\$1,516.85	4.71%

Annual Cost Based on Local, State & Federal Data

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

Water	\$232.53
Sewer	\$328.35
Combined	\$560.87

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters?	No	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	No Response
Miles of water pipeline replaced/rehabilitated in FY18	Over 6 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	Over 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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

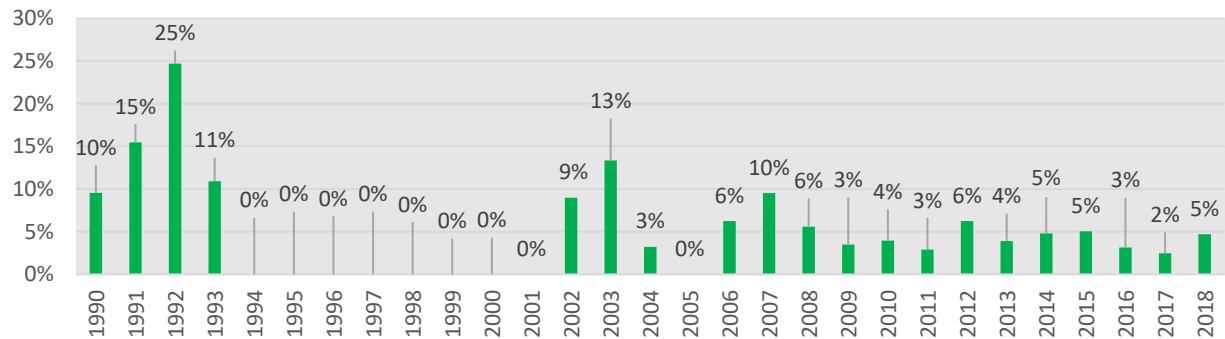
Boston – Boston Water and Sewer Commission (W/S)

FY 2019 MWRA Assessments

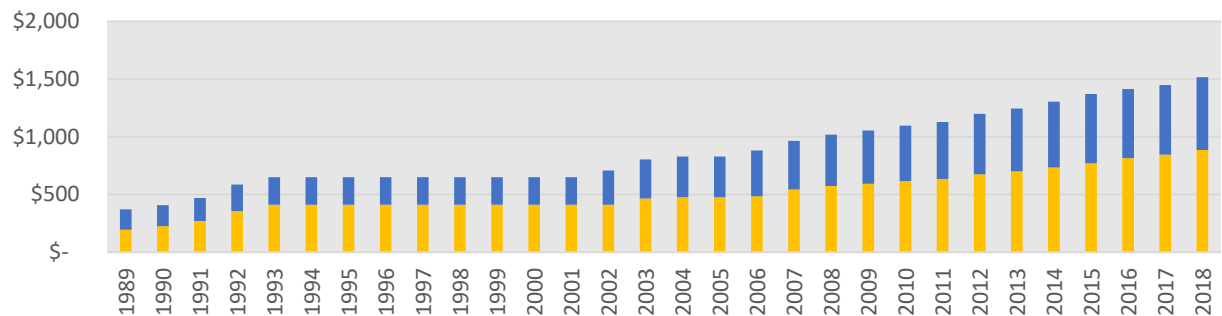
	FY18	FY19	% Change
Water	\$85,905,357	\$90,752,551	5.60%
Sewer	\$135,974,820	\$141,531,379	4.10%
Combined	\$221,880,177	\$232,283,930	4.70%



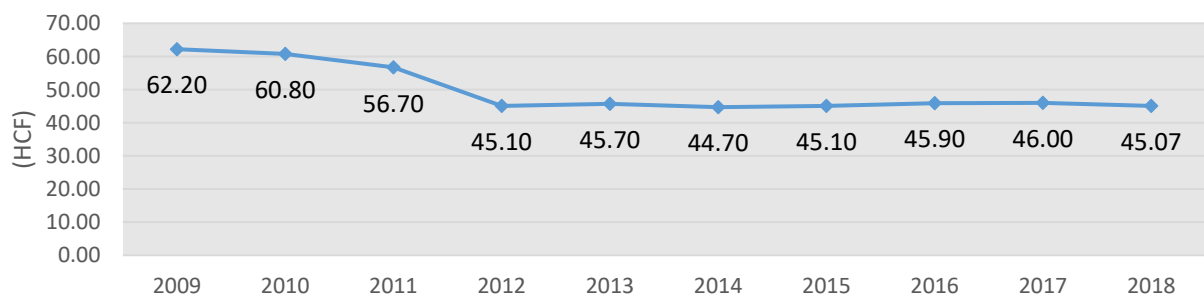
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Braintree (S)

Residential Water Rates:

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

Base charge per bill \$ 17.25
 0 – 5 HCF \$ 2.89/HCF
 >5 - 35 HCF \$ 4.36 "
 >35 - 200 HCF \$ 8.22 "
 >200 HCF \$ 11.70 "

Billing Frequency: Quarterly

Residential Sewer Rates:

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

Base charge per bill \$ 17.25
 0 – 5 HCF \$ 5.90/HCF
 >5 - 35 HCF \$ 7.46 "
 >35 - 200 HCF \$ 13.44 "
 >200 HCF \$ 14.76 "

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 2017
Water	\$562.80	3.95%
Sewer	\$933.00	2.66%
Combined	\$1,495.80	3.14%

Annual Cost Based on Local, State & Federal Data

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

Water	\$305.47
Sewer	\$492.71
Combined	\$798.19

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 2018 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	N/A	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy	

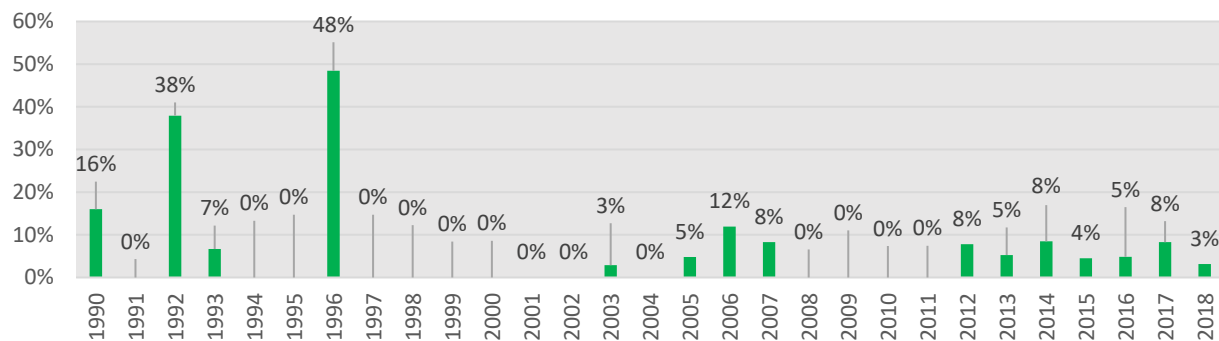
Braintree (S)

FY 2019 MWRA Assessments

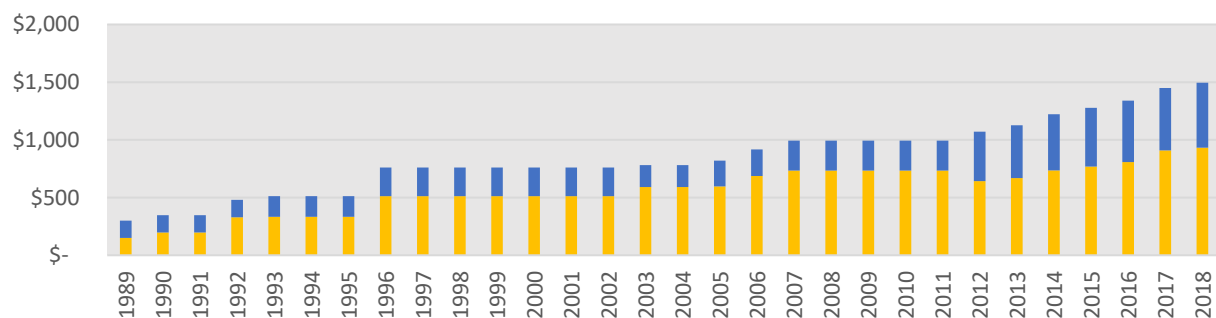
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$9,599,185	\$9,758,859	1.70%
Combined	\$9,599,185	\$9,758,859	1.70%



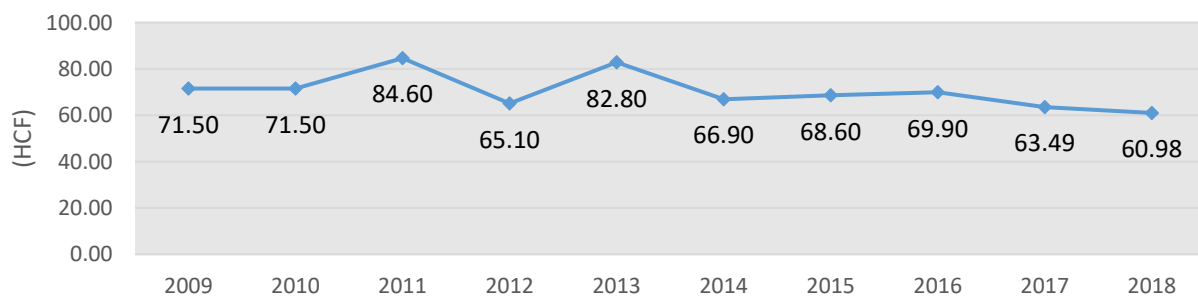
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Brookline (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge per bill \$30.00
 0 – 7 HCF \$ 1.95/HCF
 >7 HCF \$ 5.65 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge per bill \$30.00
 0 – 7 HCF \$ 4.30/HCF
 >7 HCF \$ 8.70 "

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 2017
Water	\$694.40	1.55%
Sewer	\$1,040.80	2.08%
Combined	\$1,735.20	1.87%

Annual Cost Based on Local, State & Federal Data

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

Water	\$418.58
Sewer	\$616.09
Combined	\$1,034.67

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

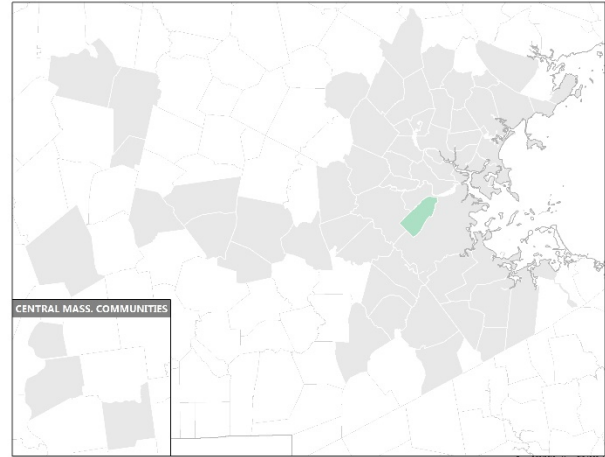
Additional 2018 Data by Community

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	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

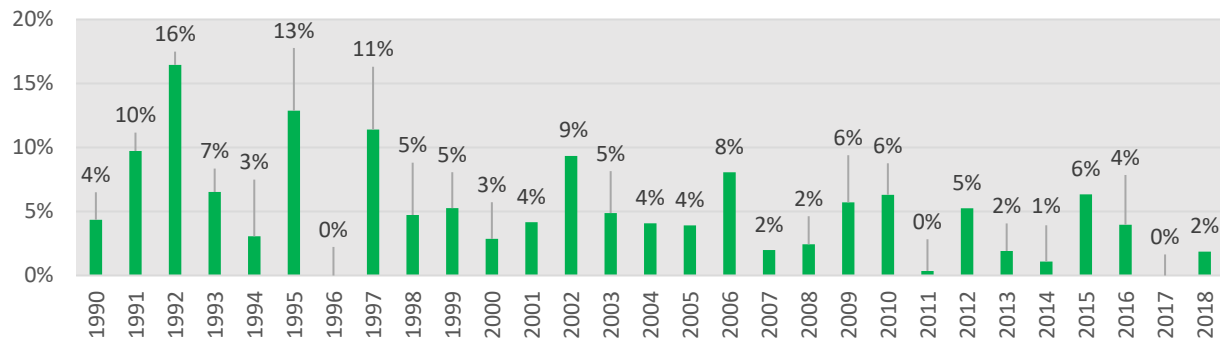
Brookline (W/S)

FY 2019 MWRA Assessments

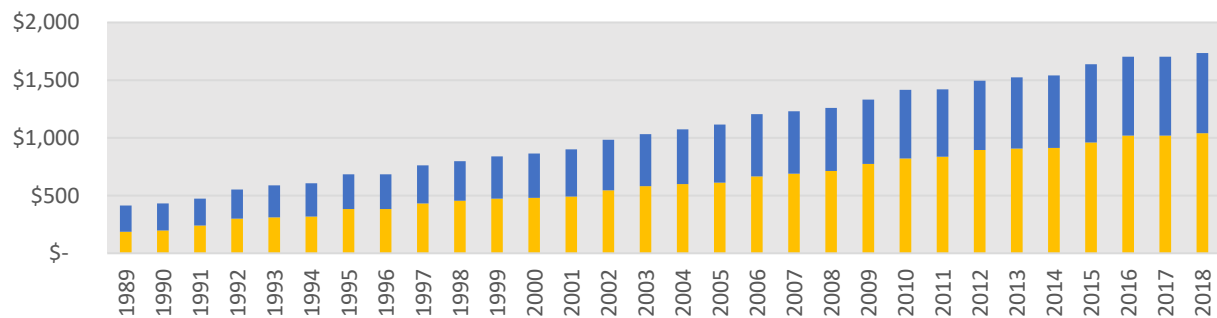
	FY18	FY19	% Change
Water	\$6,806,844	\$7,037,965	3.40%
Sewer	\$12,978,537	\$12,898,264	-0.60%
Combined	\$19,785,381	\$19,936,229	0.80%



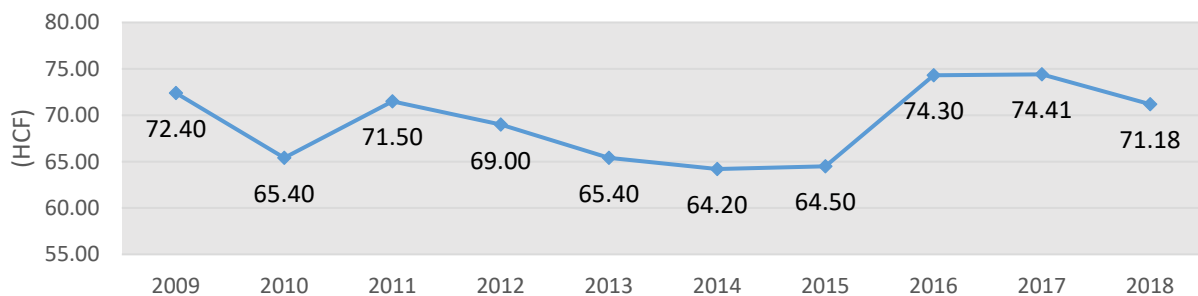
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Burlington (S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: Unknown
 Fund: General

First 20 kgal \$39.52
 >20 – 30 kgal \$ 2.14/kgal
 >30 – 50 kgal \$ 2.94 "
 >50 – 70 kgal \$ 3.74 "
 >70 – 90 kgal \$ 4.81 "
 >90 kgal \$ 5.07 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: Dec. 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 2017
Water	\$210.04	6.89%
Sewer	\$391.50	0.00%
Combined	\$601.54	2.30%

Annual Cost Based on Local, State & Federal Data

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

Water	\$95.90
Sewer	\$131.27
Combined	\$227.16

Commercial Water Rates:

First 10 kgal \$19.76/quarter
 >10 – 15 kgal \$ 3.20/ "
 >15 – 35 kgal \$ 4.27/ "
 > 35 kgal \$ 5.07/ "

Commercial Sewer Rates:

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

Additional 2018 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	N/A	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy	

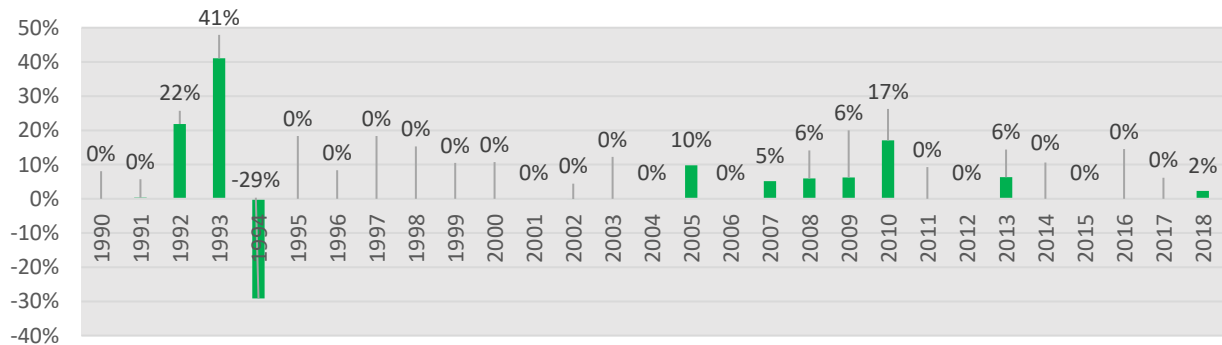
Burlington (S)

FY 2019 MWRA Assessments

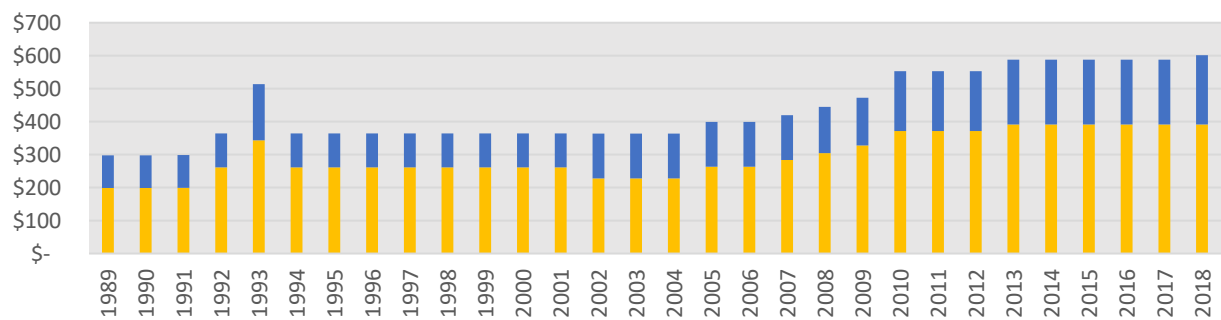
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$5,286,375	\$5,530,776	4.60%
Combined	\$5,286,375	\$5,530,776	4.60%



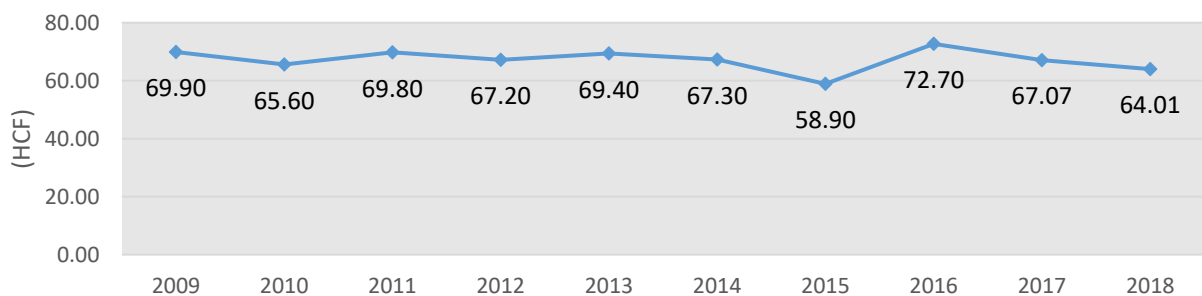
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

0 – 40 HCF/year	\$ 11.00/HCF
>40 – 400 HCF/year	\$11.63 "
>400 – 2,000 HCF/year	\$12.49 "
>2,000 – 10,000 HCF/year	\$13.45 "
>10,000 HCF/year	\$14.30 "

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 2017
Water	\$380.00	0.00%
Sewer	\$1,370.40	7.50%
Combined	\$1,750.40	5.78%

Annual Cost Based on Local, State & Federal Data

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

Water	\$138.26
Sewer	\$502.68
Combined	\$640.94

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters? Yes

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

Water System

Sewer System

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 FY18 No Response

Miles of sewer pipeline replaced/rehabilitated in FY18 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

Stormwater

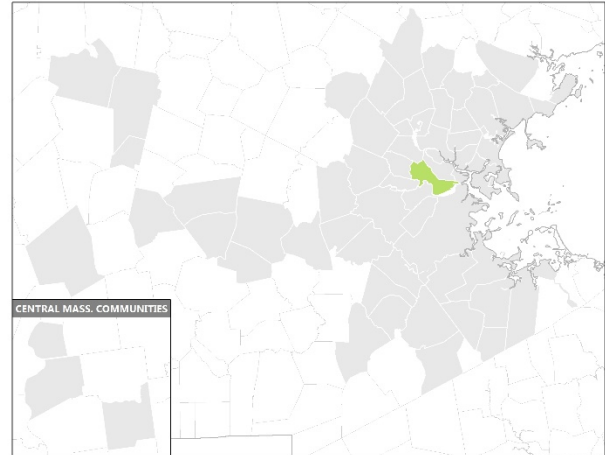
Current Funding Source of Stormwater-Related Costs:

Water/Sewer Rates

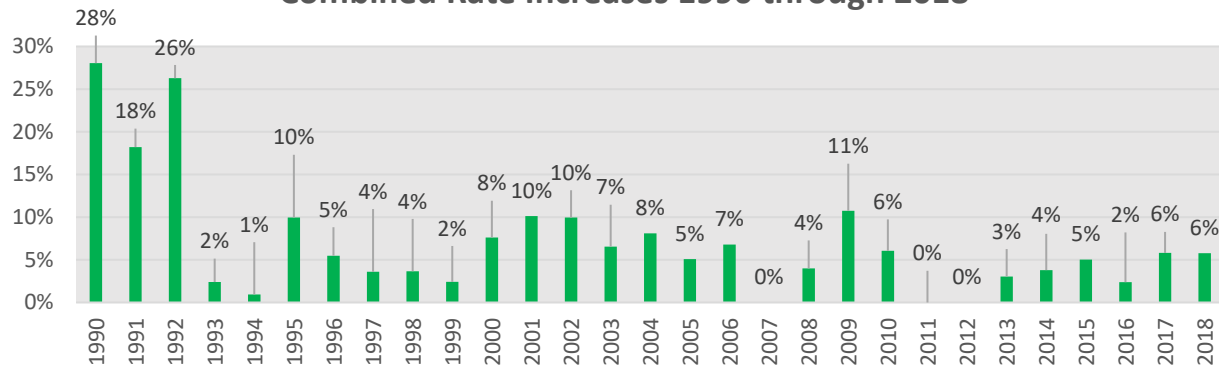
Cambridge (S/partial W)

FY 2019 MWRA Assessments

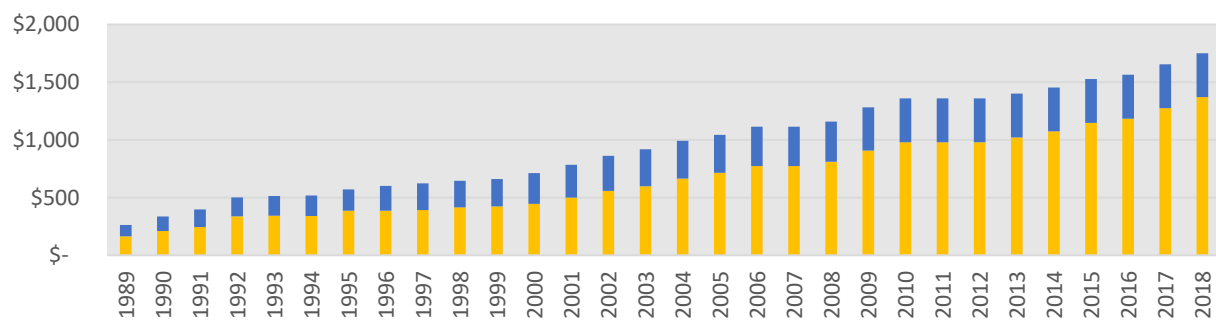
	FY18	FY19	% Change
Water	\$0	\$0	0.00%
Sewer	\$24,713,139	\$25,518,527	3.30%
Combined	\$24,713,139	\$25,518,527	3.30%



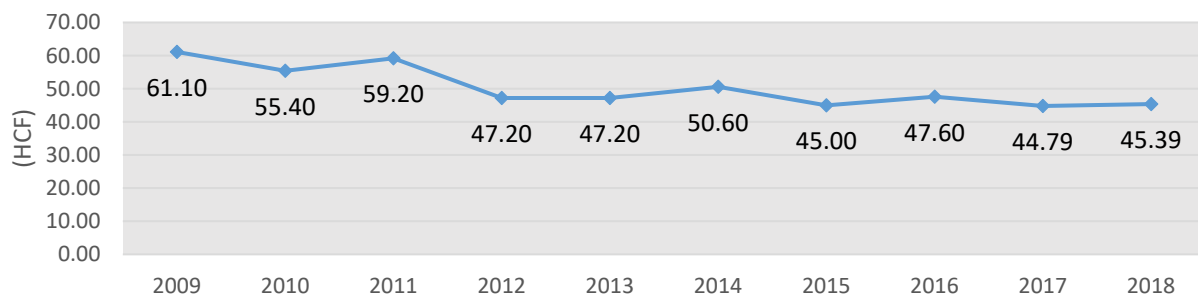
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 "

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 "

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 2017
Water	\$643.40	0.00%
Sewer	\$1,073.00	0.00%
Combined	\$1,716.40	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$373.44
Sewer	\$675.93
Combined	\$1,049.37

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

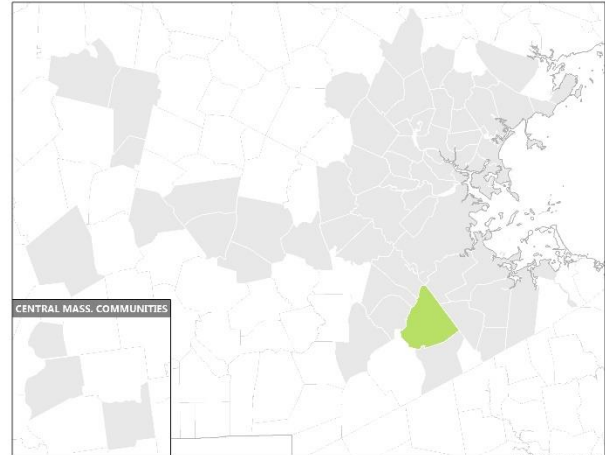
Additional 2018 Data by Community

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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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)	

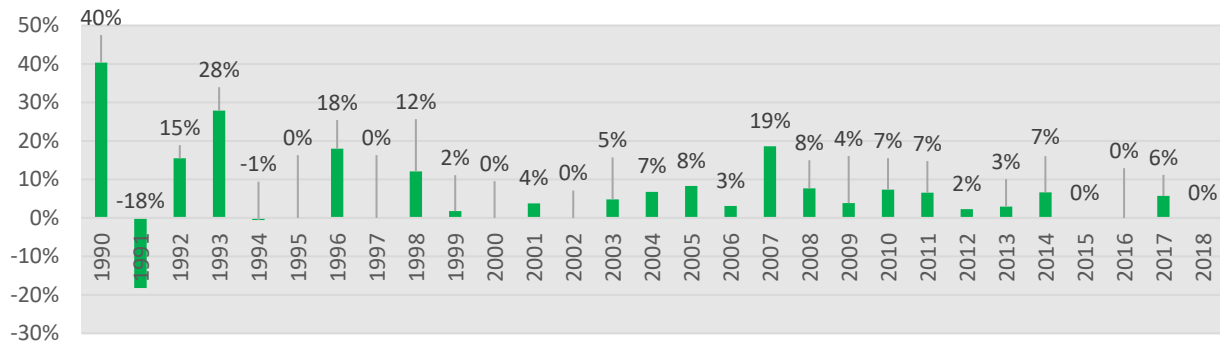
Canton (S/partial W)

FY 2019 MWRA Assessments

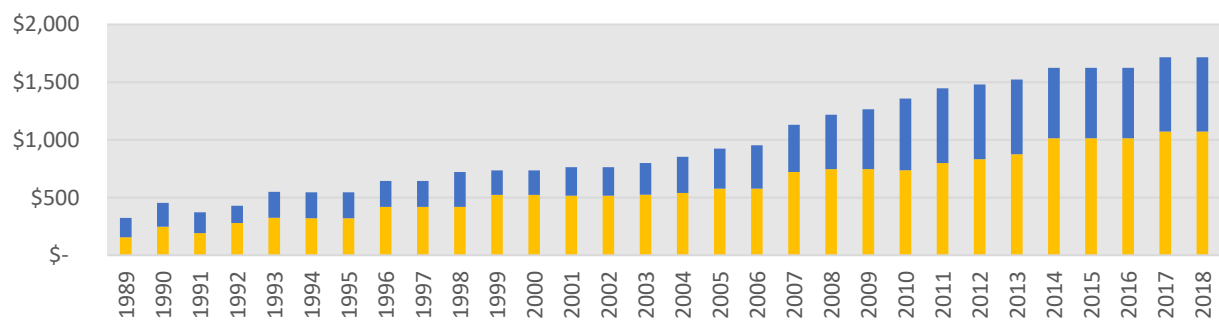
	FY18	FY19	% Change
Water	\$2,538,303	\$1,874,192	-26.20%
Sewer	\$4,210,854	\$4,383,915	4.10%
Combined	\$6,749,157	\$6,258,107	-7.30%



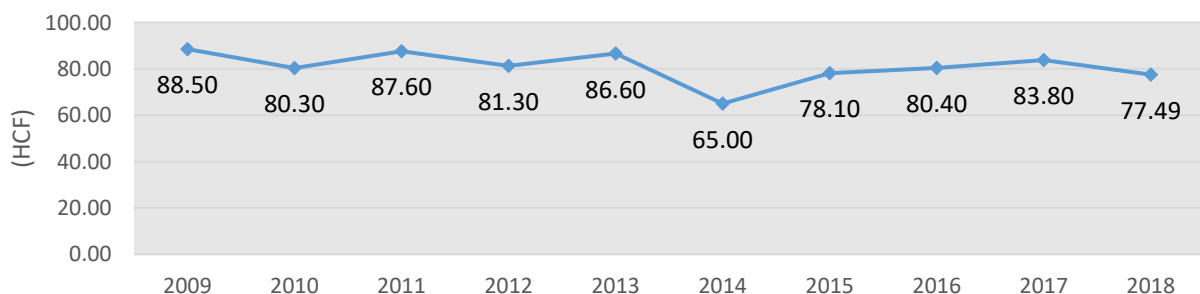
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Chelsea (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 10 HCF \$5.42/HCF
 >10 – 25 HCF \$6.60 "
 >50 HCF \$7.90 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 10 HCF \$ 9.38/HCF
 >10 – 25 HCF \$10.23 "
 >50 HCF \$11.74 "

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 2017
Water	\$650.40	6.07%
Sewer	\$1,125.60	9.07%
Combined	\$1,776.00	7.95%

Annual Cost Based on Local, State & Federal Data

(68.6 HCF – See Appendix C

for Data & Calc.)

Water	\$371.84
Sewer	\$643.52
Combined	\$1,015.36

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1
Water Capital Needs over Next Five Years	Over \$50 million
Anticipated Water Capital Spending over Next Five Years	\$5-10 million

MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of sewer pipeline replaced/rehabilitated in FY18	Less than 1
Sewer Capital Needs over Next Five Years	Over \$50 Million
Anticipated Sewer Capital Spending over Next Five Years	\$5-10 million

Stormwater

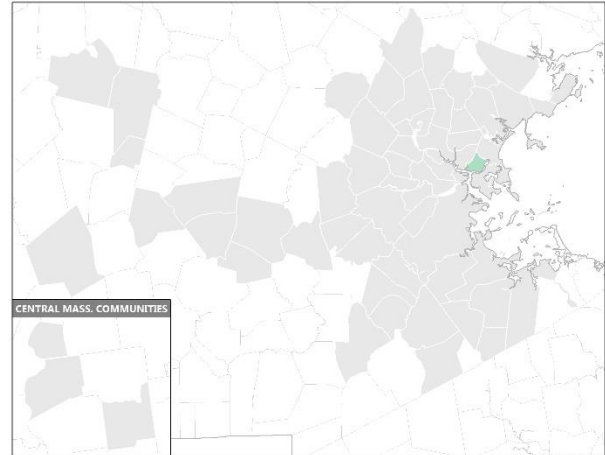
Current Funding Source of Stormwater-Related Costs:

Water/Sewer Rates

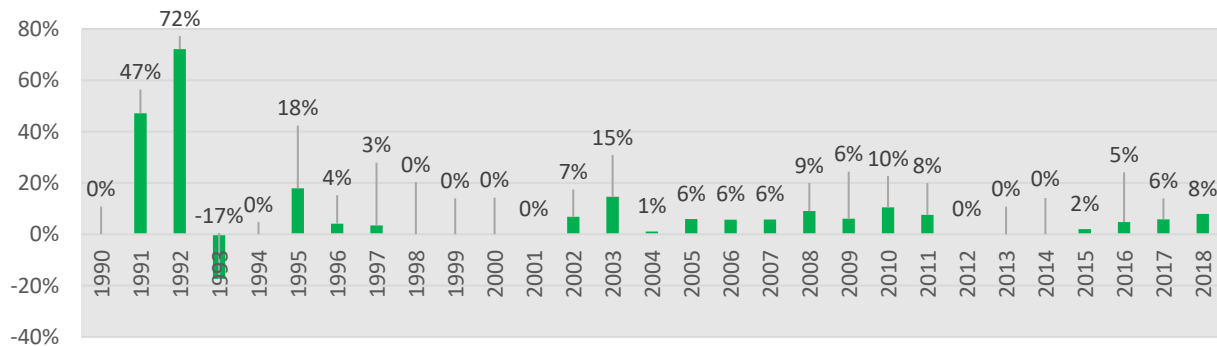
Chelsea (W/S)

FY 2019 MWRA Assessments

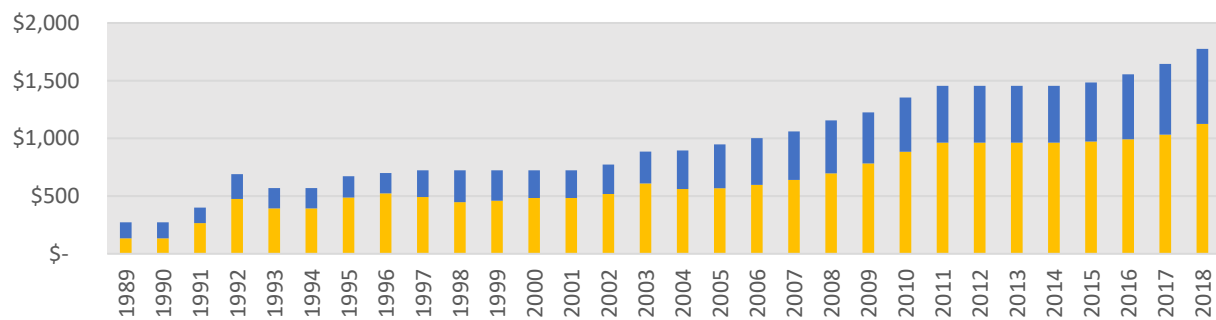
	FY18	FY19	% Change
Water	\$4,277,382	\$4,830,322	12.90%
Sewer	\$7,717,861	\$8,305,015	7.60%
Combined	\$11,995,243	\$13,135,337	9.50%



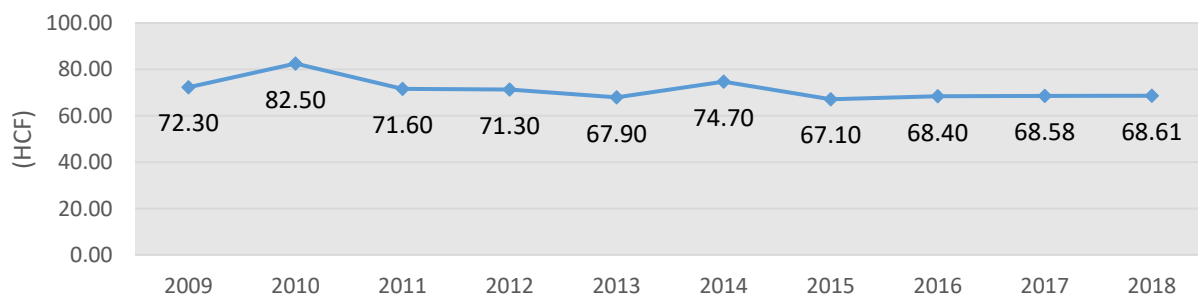
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2017
Water	\$514.00	0.00%
Sewer	\$758.32	0.00%
Combined	\$1,272.32	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$253.77
Sewer	\$373.18
Combined	\$626.95

Commercial Water Rates:

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

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

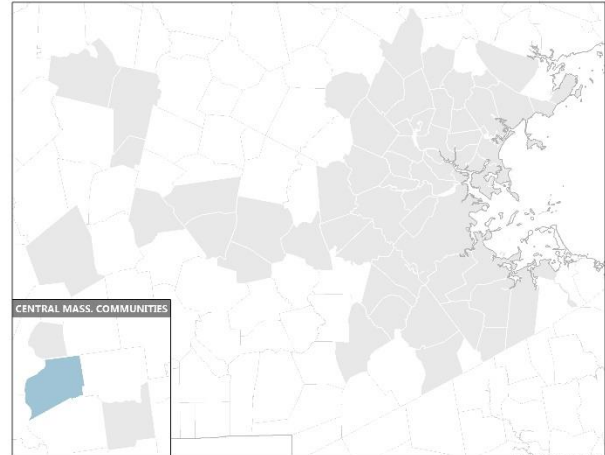
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
Water System		Sewer System	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	0-25%
Miles of water pipeline replaced/rehabilitated in FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	

Chicopee is 1 of 4 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](#).

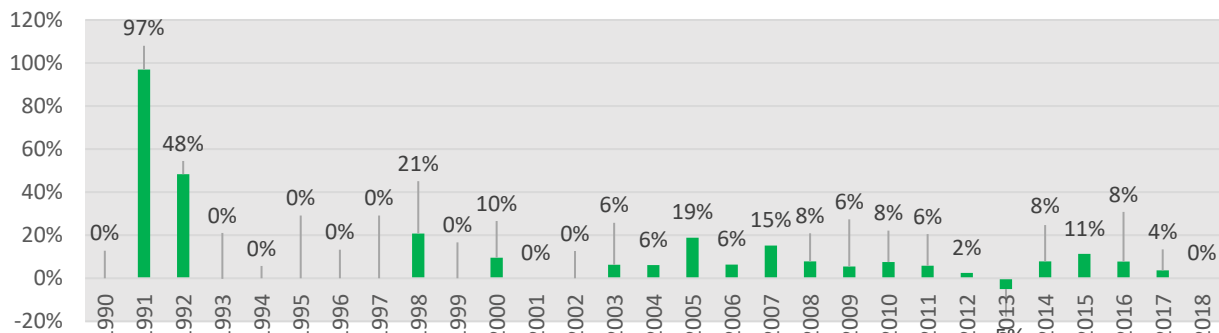
Chicopee (W)

FY 2019 MWRA Assessments

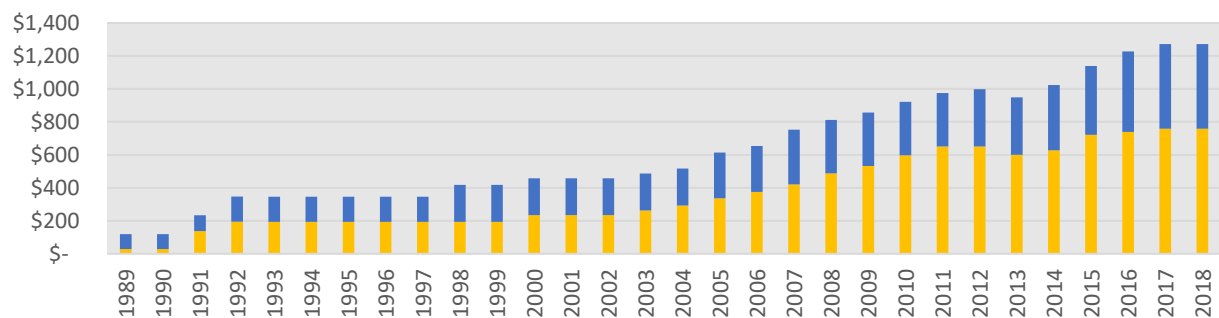
	FY18	FY19	% Change
Water	\$3,400,313	\$3,542,075	4.20%
Sewer	N/A	N/A	N/A
Combined	\$3,400,313	\$3,542,075	4.20%



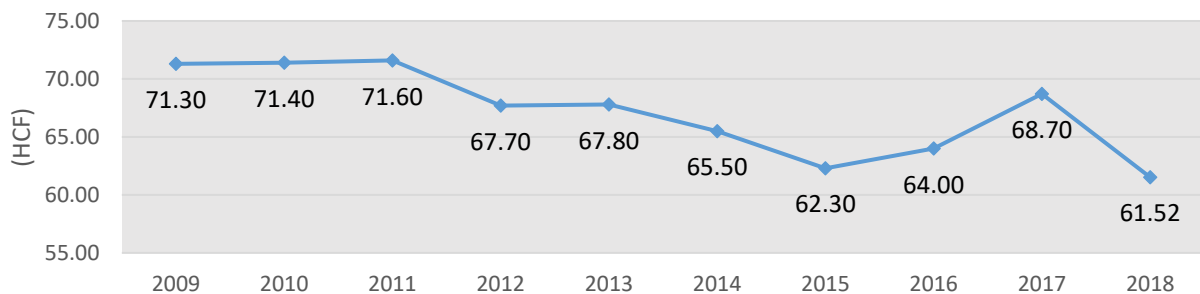
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Clinton (W/S)

Residential Water Rates:

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

Minimum charge \$60.05
 0 – 10 HCF \$ 6.05/HCF
 >10 – 30 HCF \$ 1.38 "
 >30 – 50 HCF \$ 3.08 "
 >50 – 200 HCF \$ 3.31 "
 >200 HCF \$ 3.55 "

Billing Frequency: Quarterly

Residential Sewer Rates:

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

Minimum charge \$44.95
 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 2017
Water	\$364.70	3.02%
Sewer	\$273.53	3.02%
Combined	\$638.23	3.02%

Annual Cost Based on Local, State & Federal Data

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

Water	\$204.64
Sewer	\$153.48
Combined	\$358.12

- ♦ 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

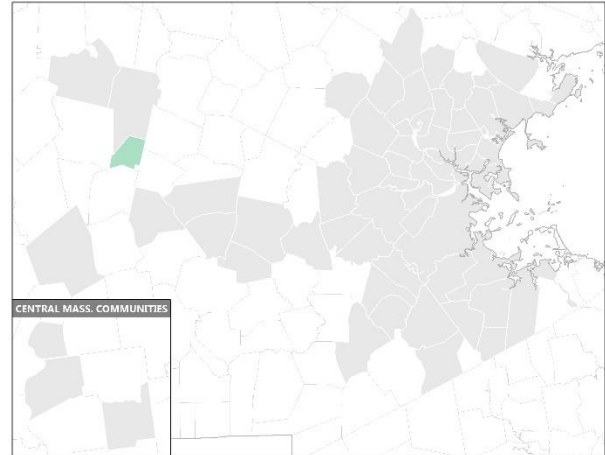
Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes, grandfathered accounts	Does this Community Offer Senior and/or Low Income Discounts?	No Response
Water System		Sewer System	
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

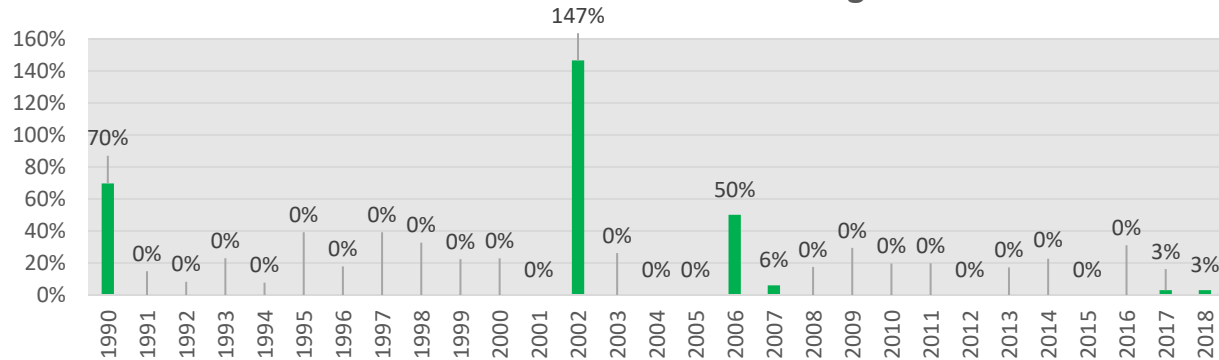
Clinton (W/S)

FY 2019 MWRA Assessments

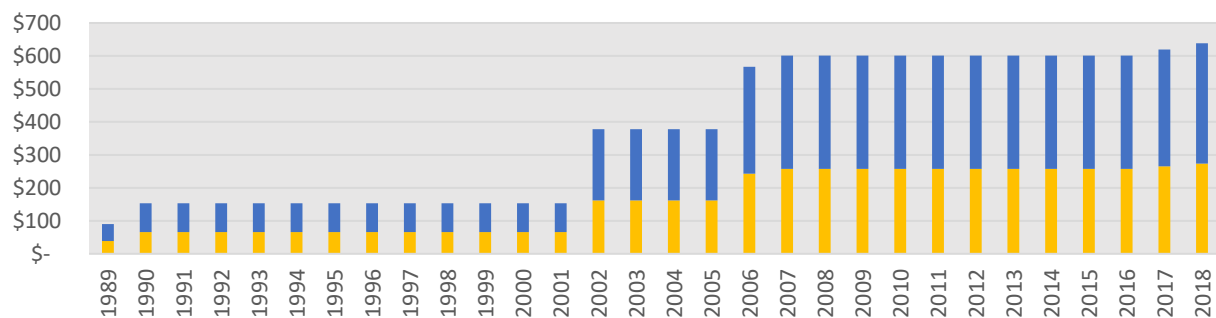
	FY18	FY19	% Change
Water	\$0	\$0	0.00%
Sewer	\$500,000	\$500,000	0.00%
Combined	\$500,000	\$500,000	0.00%



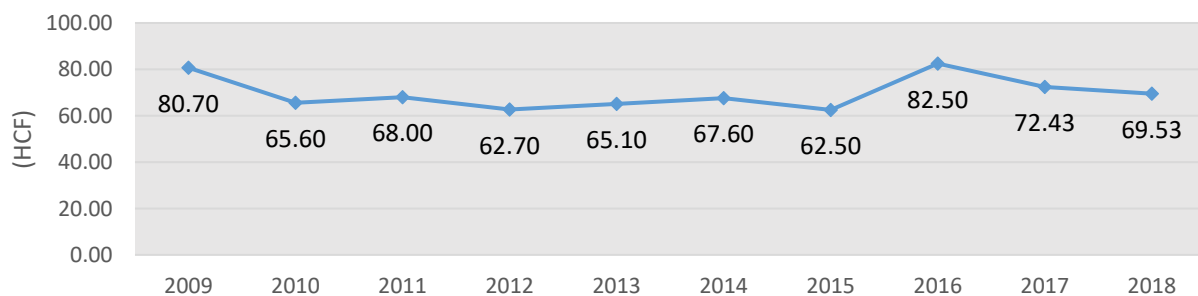
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Dedham (S/ partial W)

Residential Water Rates:

Last adjusted:	Dec. 2015
Next adjustment scheduled:	Unknown
Fund:	Enterprise
Minimum charge per bill includes first 3 HCF (5/8" meter)	\$12.57
>3 – 14 HCF	\$ 4.43/HCF
>14 – 23 HCF	\$ 7.19 "
>23 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 2017
Water	\$629.28	0.00%
Sewer	\$937.28	0.00%
Combined	\$1,566.56	0.00%

Annual Cost Based on Local, State & Federal Data

(76.6 HCF – See Appendix C

for Data & Calc.)

Water	\$331.13
Sewer	\$748.99
Combined	\$1,080.11

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 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
Water System		Sewer System	
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 FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

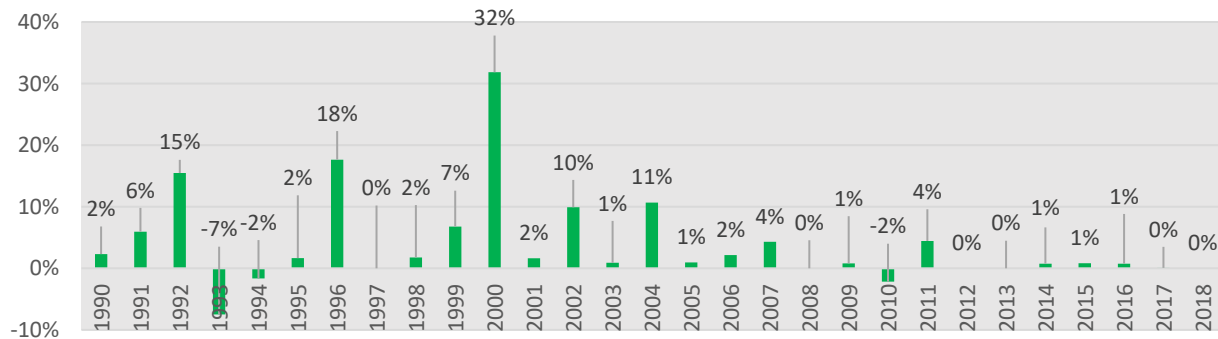
Dedham (S/ partial W)

FY 2019 MWRA Assessments

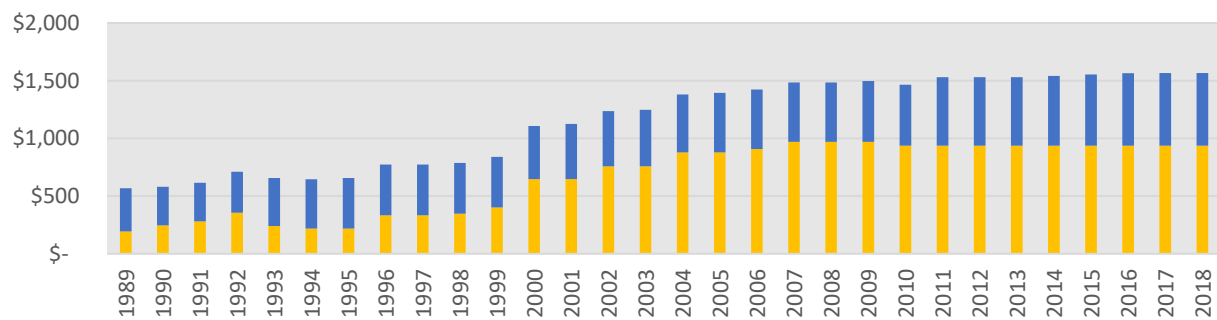
	FY18	FY19	% Change
Water	\$295,794	\$154,204	-47.90%
Sewer	\$5,482,446	\$5,597,434	2.10%
Combined	\$5,778,240	\$571,638	-0.40%



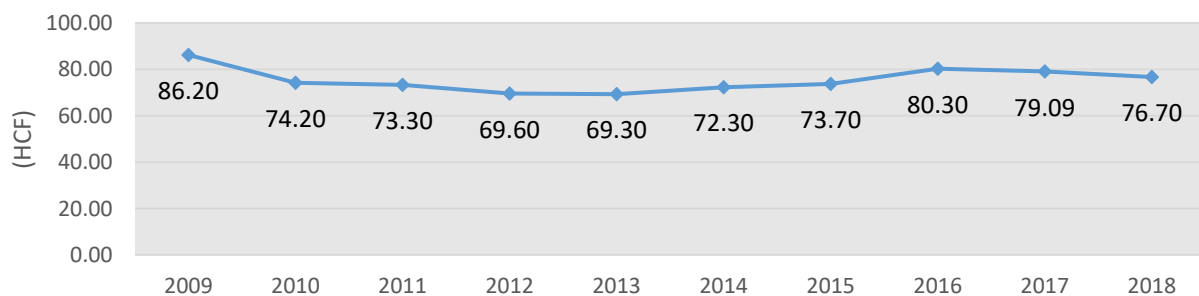
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Everett (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 30 HCF	\$2.38/HCF
>30 – 60 HCF	\$3.02 "
>60 – 90 HCF	\$3.63 "
>90 – 240 HCF	\$4.14 "
>240 HCF	\$4.98 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 30 HCF	\$6.48/HCF
>30 – 60 HCF	\$ 8.49 "
>60 – 90 HCF	\$ 9.75 "
>90 – 240 HCF	\$ 10.93 "
>240 HCF	\$ 12.17 "

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 2017
Water	\$285.60	2.15%
Sewer	\$777.60	2.05%
Combined	\$1,063.20	2.07%

Annual Cost Based on Local, State & Federal Data

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

Water	\$146.31
Sewer	\$398.35
Combined	\$544.65

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	Over 75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	No response	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Operating Budget / Tax Levy	

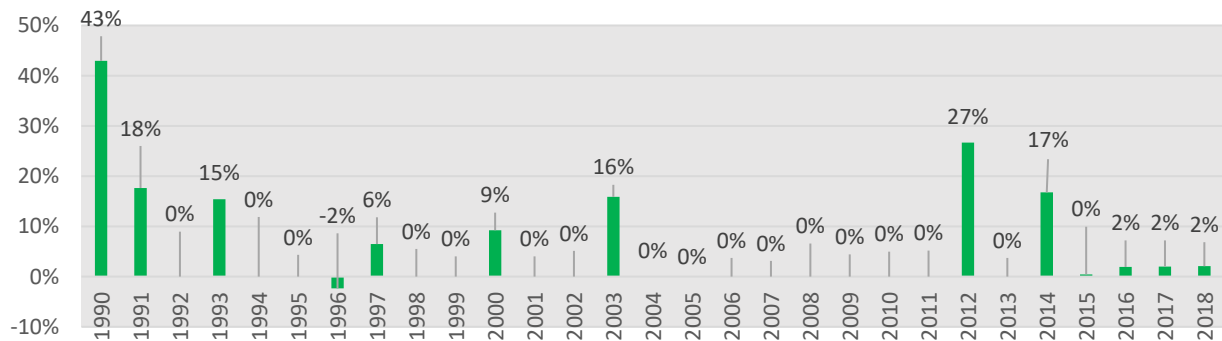
Everett (W/S)

FY 2019 MWRA Assessments

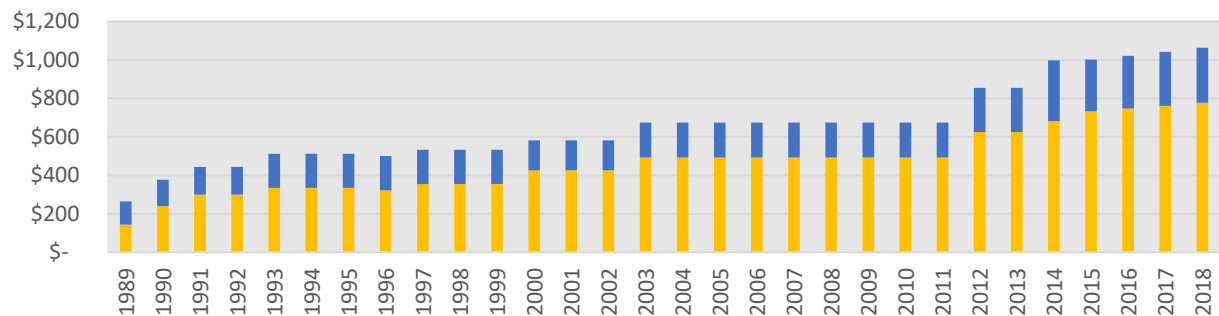
	FY18	FY19	% Change
Water	\$5,182,465	\$5,466,023	5.50%
Sewer	\$8,378,885	\$8,876,844	5.90%
Combined	\$13,561,350	\$14,342,867	5.80%



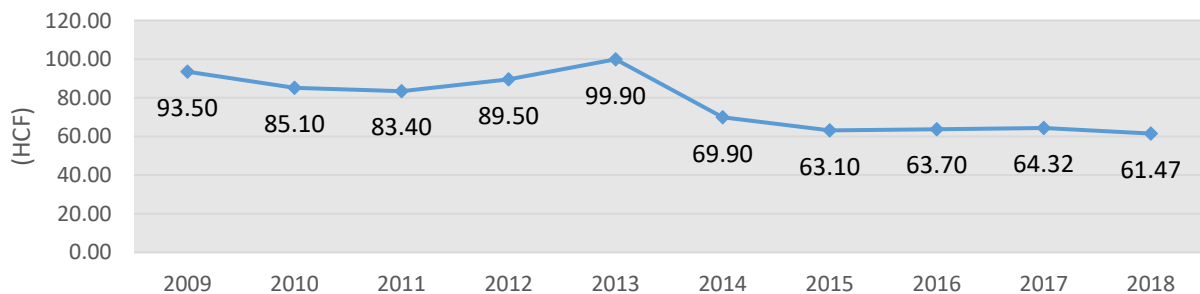
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Framingham (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 12 HCF	\$ 6.15/HCF
>12 – 27 HCF	\$ 6.84 "
>27 – 51 HCF	\$ 7.95 "
>51 – 750 HCF	\$ 9.37 "
>750 HCF	\$11.35 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 12 HCF	\$ 7.98/HCF
>12 – 27 HCF	\$ 8.23 "
>27 – 51 HCF	\$ 11.05 "
>51 – 750 HCF	\$ 15.81 "
>750 HCF	\$ 22.96 "

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 2017
Water	\$801.00	2.36%
Sewer	\$1,009.44	2.27%
Combined	\$1,810.44	2.31%

Annual Cost Based on Local, State & Federal Data

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

Water	\$382.25
Sewer	\$487.78
Combined	\$870.03

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY18	3-6 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

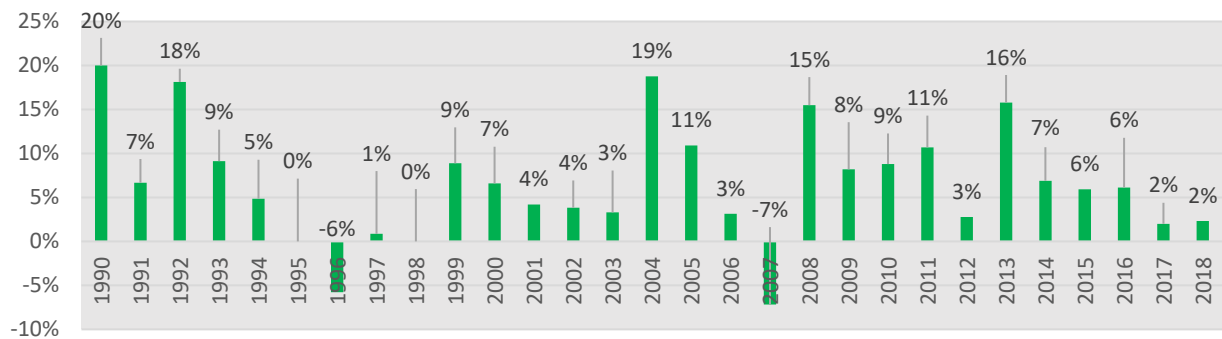
Framingham (W/S)

FY 2019 MWRA Assessments

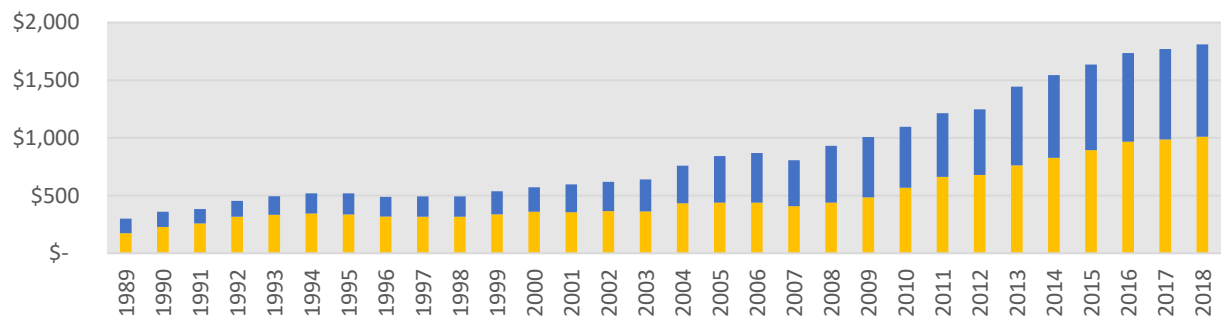
	FY18	FY19	% Change
Water	\$8,003,044	\$8,205,353	2.50%
Sewer	\$13,063,056	\$13,423,226	2.80%
Combined	\$21,066,100	\$21,628,579	2.70%



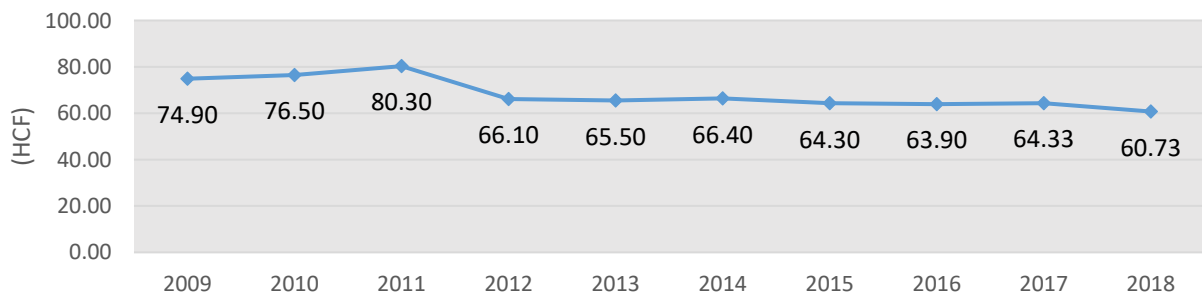
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Hingham (S)

Residential Water Rates:

Last adjusted:	Nov. 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 "
Consumption charge for water treatment facility	\$ 0.7342 "
Consumption charge for O&M	\$ 1.0119 "
Billing Frequency:	Quarterly

Residential Sewer Rates:

Last adjusted:	May 2017
Next adjustment scheduled:	April 2019
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 2017
Water	\$816.68	0.00%
Sewer	\$1,188.00	0.00%
Combined	\$2,004.68	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$507.02
Sewer	\$646.46
Combined	\$1,153.47

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 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
Water System		Sewer System	
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

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

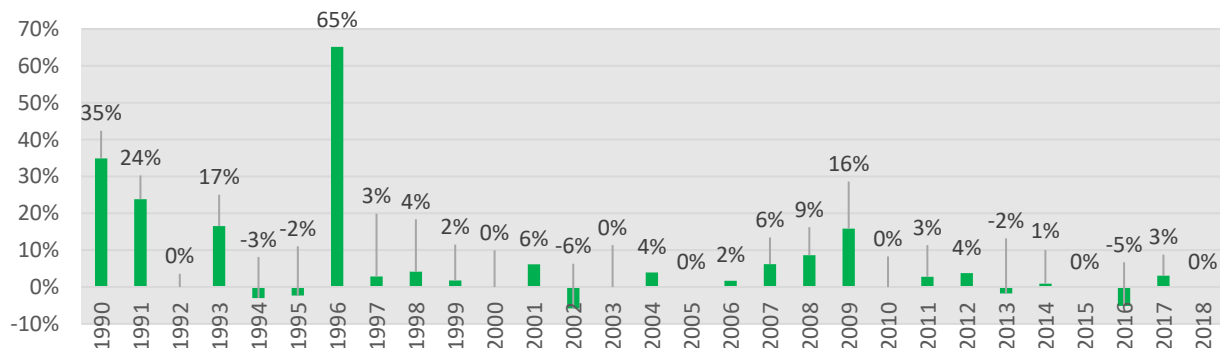
Hingham (S)

FY 2019 MWRA Assessments

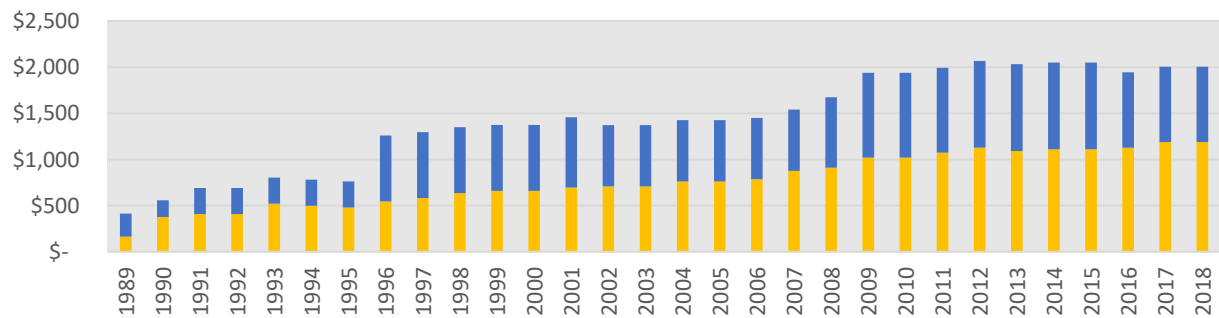
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$1,846,255	\$1,902,184	3.00%
Combined	\$1,846,255	\$1,902,184	3.00%



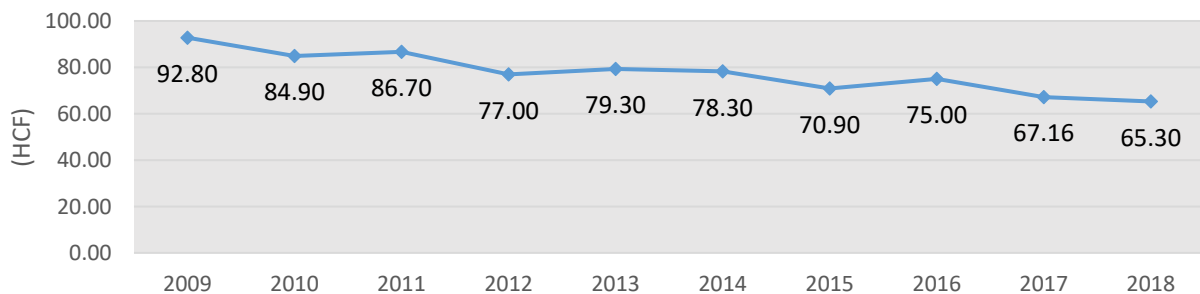
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Holbrook (S)

Residential Water Rates:

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

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

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: October 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 2017
Water	\$804.00	0.00%
Sewer	\$915.60	0.00%
Combined	\$1,719.60	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$355.75
Sewer	\$405.13
Combined	\$760.88

Commercial Water Rates:

All units \$ 6.83/HCF

Commercial Sewer Rates:

All units \$ 6.80/HCF

Additional 2018 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 N/A

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

Miles of water pipeline replaced/rehabilitated in FY18 1-3 miles

Miles of sewer pipeline replaced/rehabilitated in FY18 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

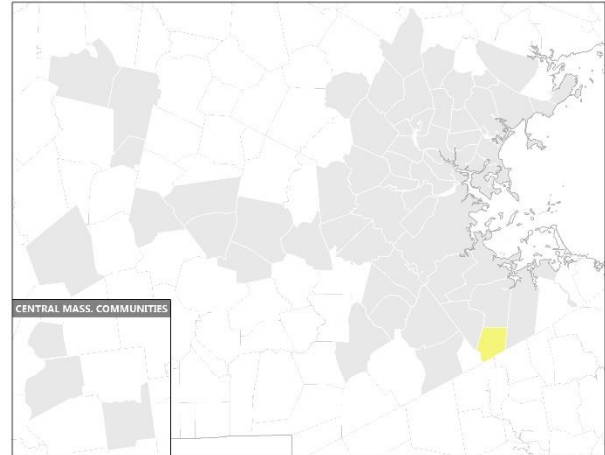
Current Funding Source of Stormwater-Related Costs:

Special Assessment/ Fee

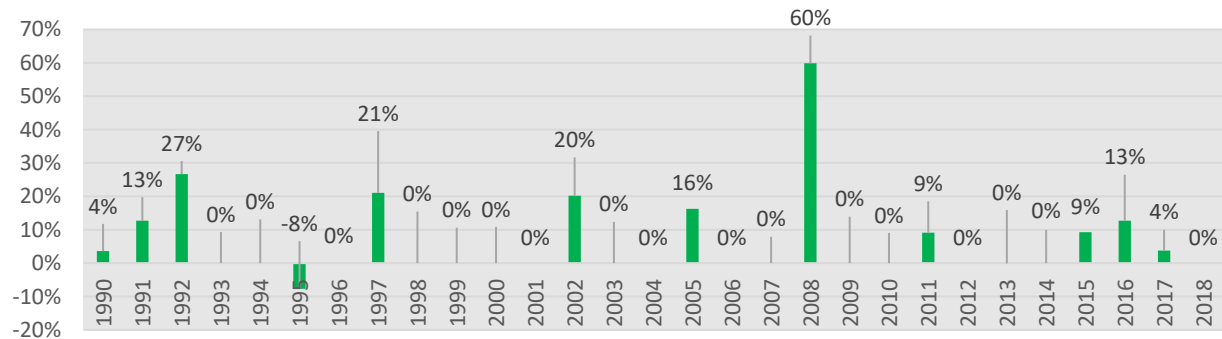
Holbrook (S)

FY 2019 MWRA Assessments

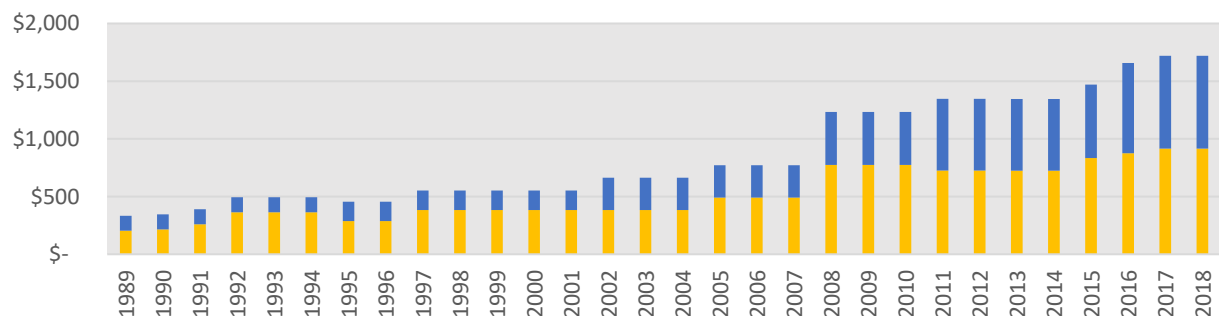
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$1,804,666	\$1,824,554	1.10%
Combined	\$1,804,666	\$1,824,554	1.10%



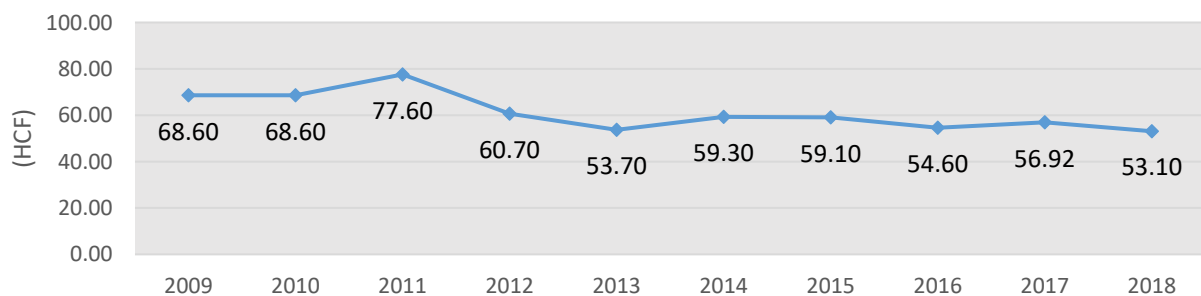
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Leominster (partial W)

Residential Water Rates:

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

 First 3 HCF \$40.00
 >3 HCF \$ 3.78/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 \$ 4.21/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 2017
Water	\$488.24	2.49%
Sewer	\$534.68	2.48%
Combined	\$1,022.92	2.49%

Annual Cost Based on Local, State & Federal Data

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

Water	\$240.17
Sewer	\$258.39
Combined	\$498.55

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

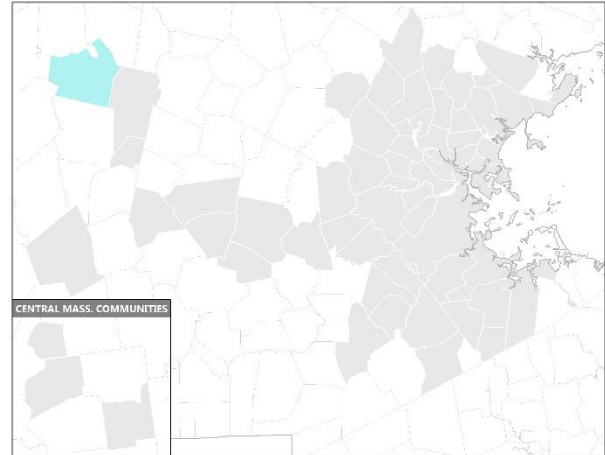
Additional 2018 Data by Community

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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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	

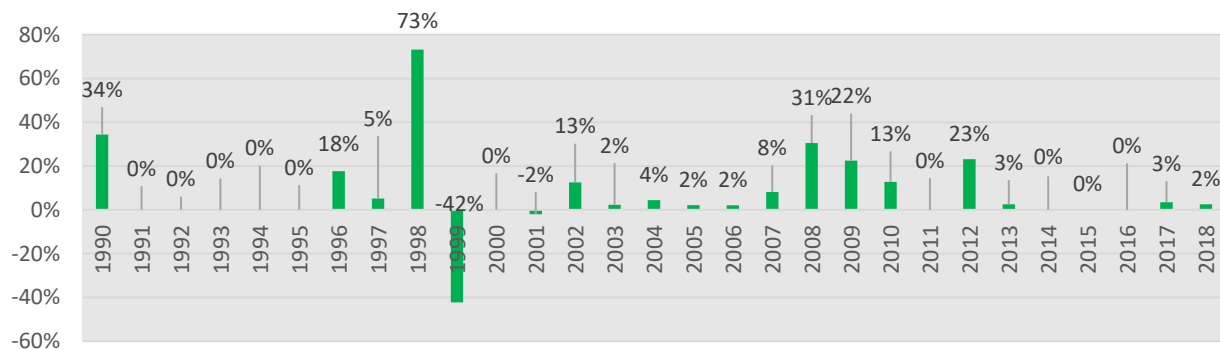
Leominster (partial W)

FY 2019 MWRA Assessments

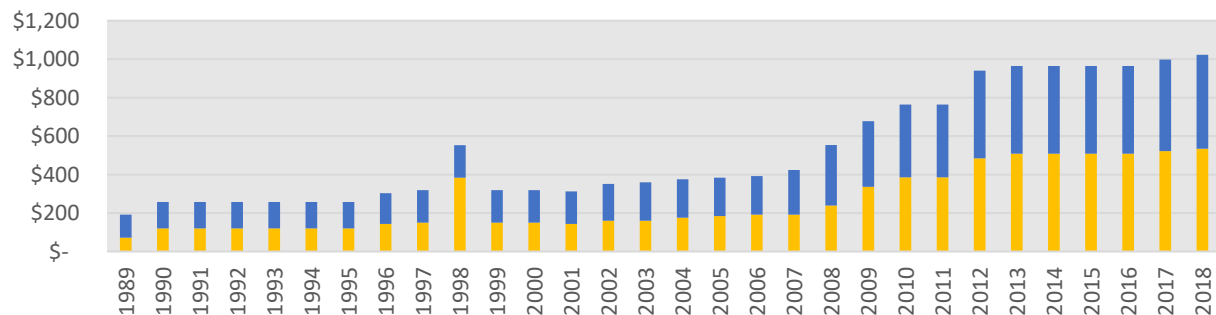
	FY18	FY19	% Change
Water	\$0	\$0	0.00%
Sewer	N/A	N/A	N/A
Combined	\$0	\$0	0.00%



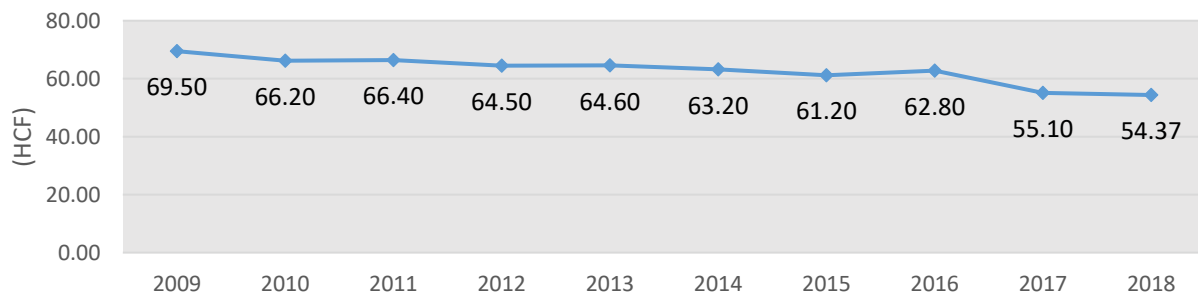
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Lexington (W/S)

Residential Water Rates:

Last adjusted: April 2018
 Next adjustment scheduled: April 2019
 Fund: Enterprise

0 – 40 HCF \$3.96/HCF
 >40 – 80 HCF \$5.93 "
 >80 HCF \$7.83 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: April 2018
 Next adjustment scheduled: April 2019
 Fund: Enterprise

0 – 40 HCF \$7.46/HCF
 >40 – 80 HCF \$12.17 "
 >80 HCF \$19.35 "

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 2017
Water	\$554.00	1.76%
Sewer	\$1,083.60	8.71%
Combined	\$1,637.60	6.25%

Annual Cost Based on Local, State & Federal Data

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

Water	\$479.49
Sewer	\$930.68
Combined	\$1,410.16

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

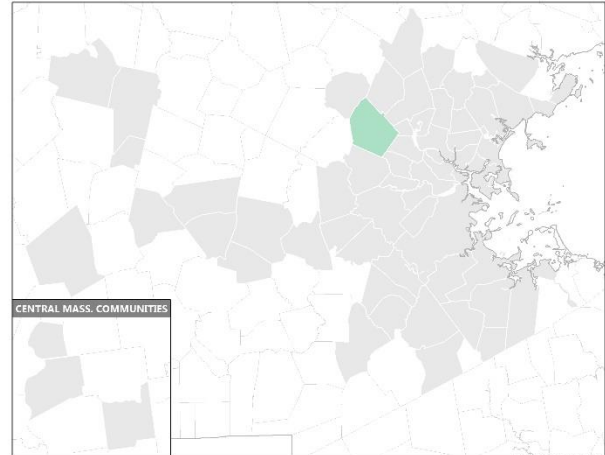
Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
Water System		Sewer System	
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Operating Budget / Tax Levy	

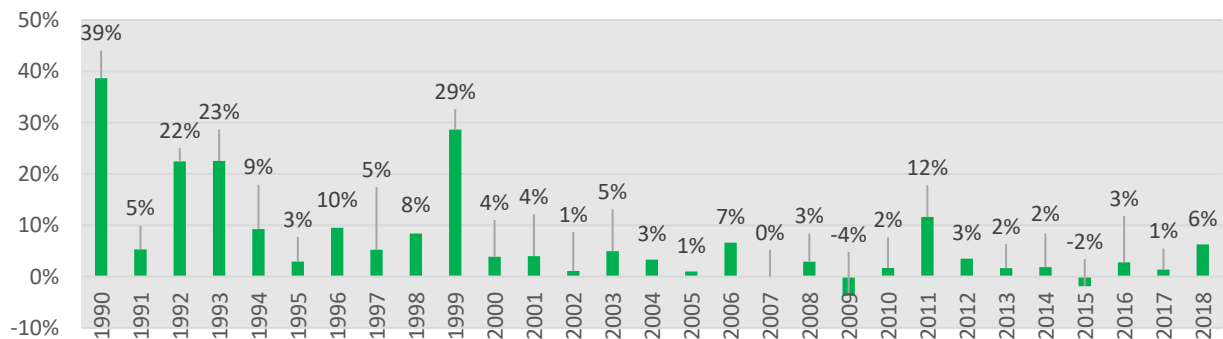
Lexington (W/S)

FY 2019 MWRA Assessments

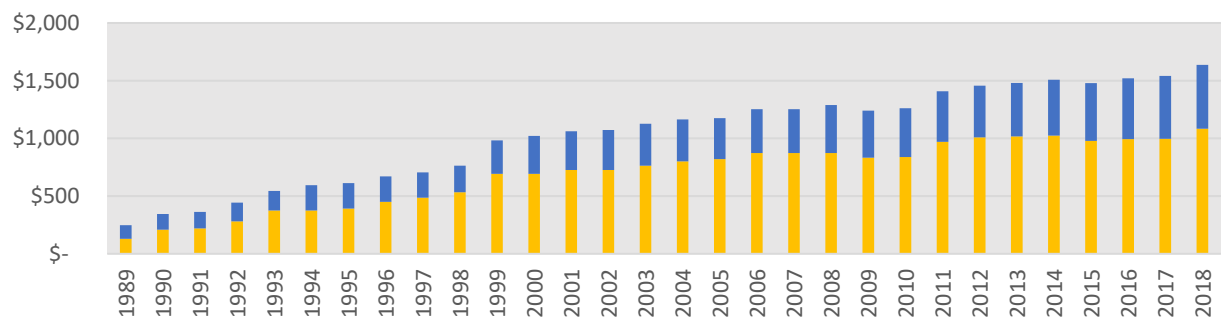
	FY18	FY19	% Change
Water	\$7,246,531	\$7,128,006	-1.60%
Sewer	\$7,402,979	\$7,572,486	2.30%
Combined	\$14,649,510	\$14,700,492	0.30%



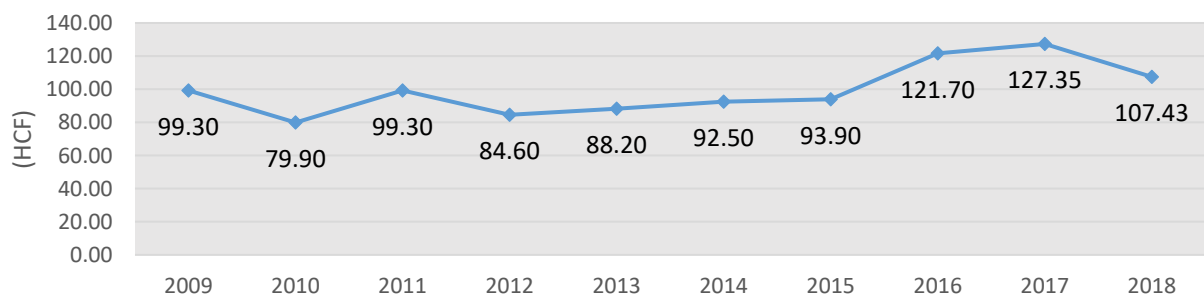
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Lynn (partial W)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 27 HCF \$3.73/HCF
 >27 – 73 HCF \$3.85 "
 >73 – 2,812 HCF \$3.91 "
 >2,812 HCF \$3.96 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 27 HCF \$6.85 "
 >27 – 73 HCF \$7.08 "
 >73 – 2,812 HCF \$7.20 "
 >2,812 HCF \$7.25 "

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 2017
Water	\$449.04	3.92%
Sewer	\$824.76	3.95%
Combined	\$1,273.80	3.94%

Annual Cost Based on Local, State & Federal Data

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

Water	\$257.81
Sewer	\$473.47
Combined	\$731.28

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

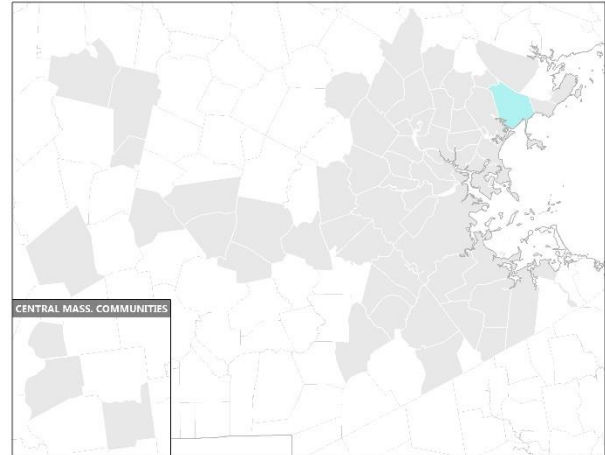
Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Both
Water System		Sewer System	
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

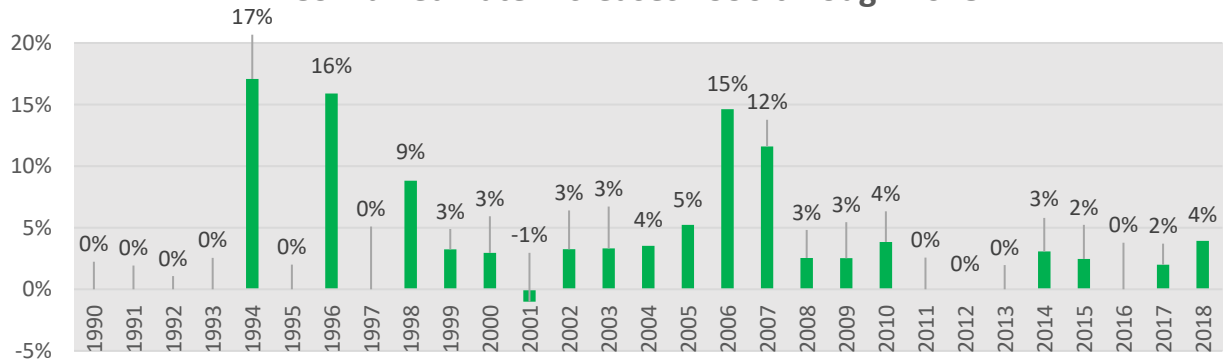
Lynn (partial W)

FY 2019 MWRA Assessments

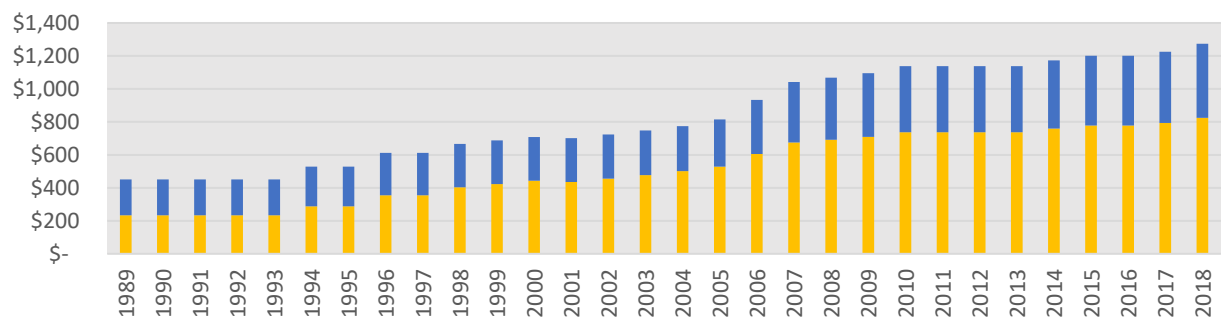
	FY18	FY19	% Change
Water	\$326,368	\$320,031	-1.90%
Sewer	N/A	N/A	N/A
Combined	\$326,368	\$320,031	-1.90%



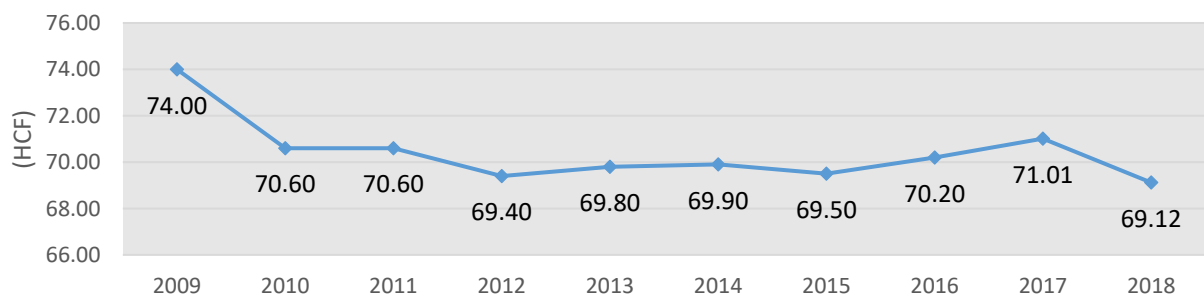
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 sewered.	
Billing Frequency:	

Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$436.30	15.61%
Sewer	\$0.00	0.00%
Combined	\$436.30	15.61%

Annual Cost Based on Local, State & Federal Data

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

Water	\$320.06
Sewer	\$0.00
Combined	\$320.06

- ◆ 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 2018 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	No Response	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY18	No Response	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		N/A	

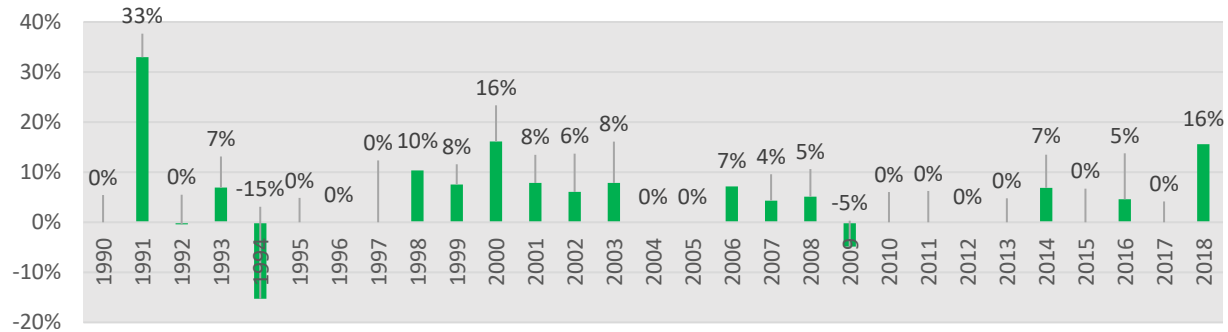
Lynnfield – Lynnfield Water District (W)

FY 2019 MWRA Assessments

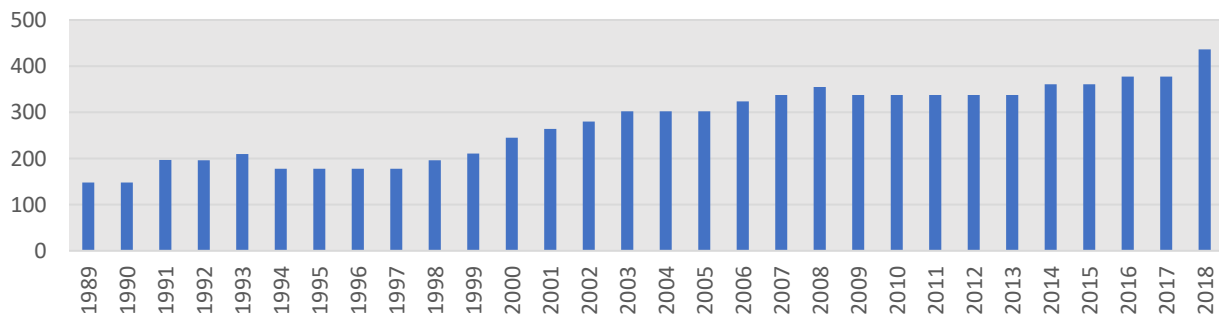
	FY18	FY19	% Change
Water	\$748,610	\$759,983	1.50%
Sewer	N/A	N/A	N/A
Combined	\$748,610	\$759,983	1.50%



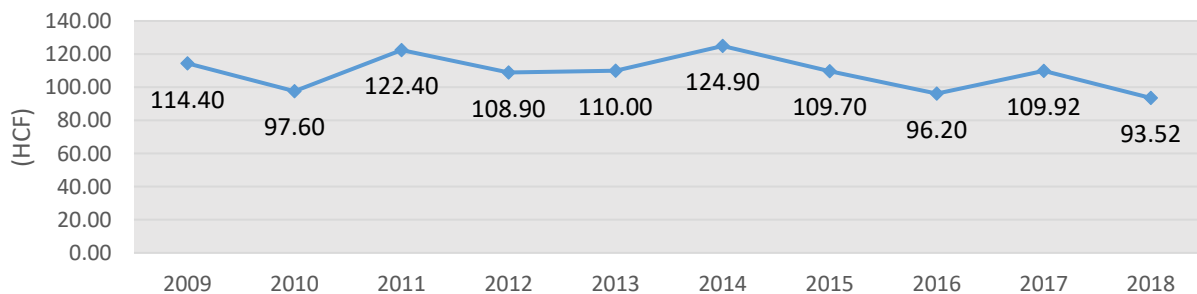
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Malden (W/S)

Residential Water Rates:

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

Minimum charge (5/8" meter) includes 0 – 0.5 HCF: \$ 3.00/month
 >0.5 – 8 HCF: \$ 4.56/HCF
 >8 – 120 HCF \$ 10.18 "
 >120 HCF \$13.76 "

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: \$ 5.59/HCF
 >8 – 120 HCF \$ 10.88 "
 >120 HCF \$12.50 "

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 2017
Water	\$682.08	2.97%
Sewer	\$797.76	2.97%
Combined	\$1,479.84	2.97%

Annual Cost Based on Local, State & Federal Data

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

Water	\$286.61
Sewer	\$351.35
Combined	\$637.96

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

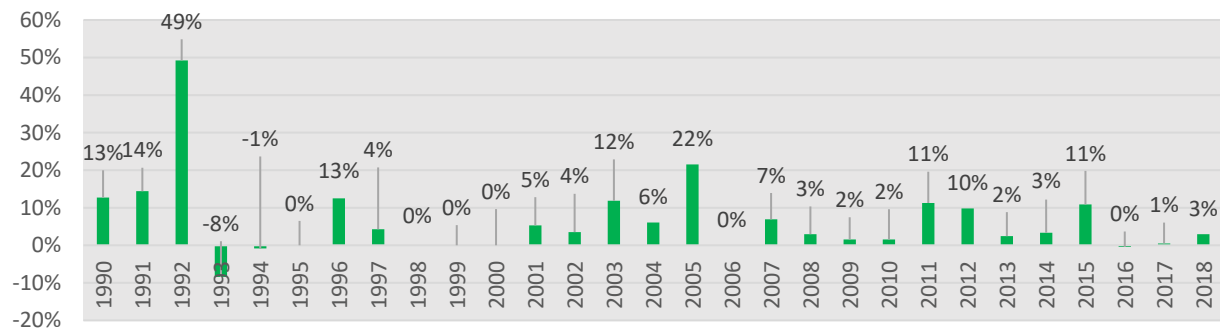
Malden (W/S)

FY 2019 MWRA Assessments

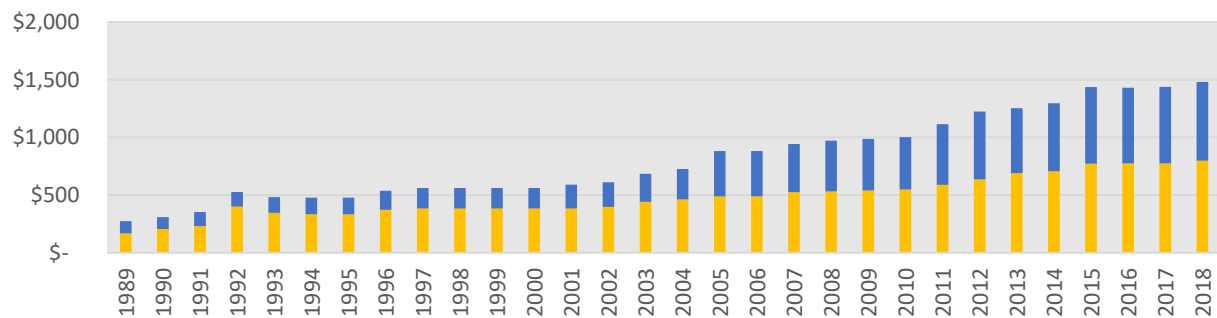
	FY18	FY19	% Change
Water	\$6,762,968	\$7,119,028	5.30%
Sewer	\$13,307,655	\$13,514,306	1.60%
Combined	\$20,070,623	\$20,633,334	2.80%



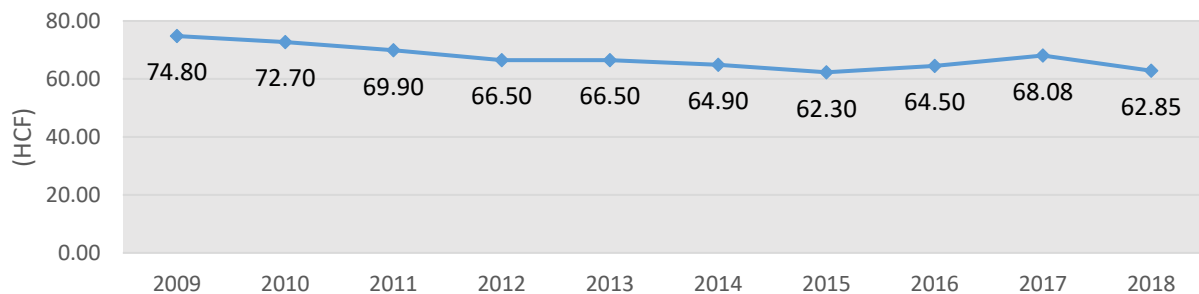
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Marblehead (W)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Administrative Charge \$16.25/bill
 0 – 30 HCF \$ 4.85/HCF
 >30 HCF \$ 6.50 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Administrative Charge \$14.25/bill
 0 – 30 HCF \$ 9.35/HCF
 >30 HCF \$ 9.40 "

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 2017
Water	\$647.00	1.25%
Sewer	\$1,179.00	3.97%
Combined	\$1,826.00	2.99%

Annual Cost Based on Local, State & Federal Data

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

Water	\$476.95
Sewer	\$851.18
Combined	\$1,328.13

- ♦ 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 2018 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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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)	

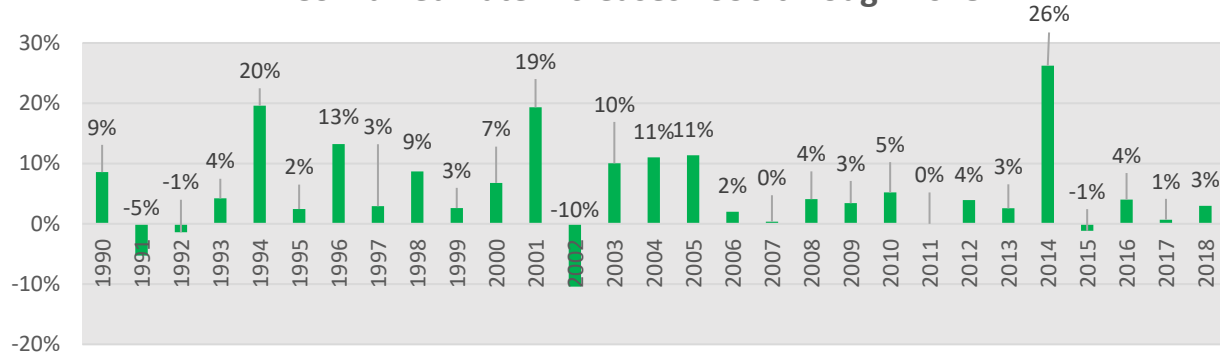
Marblehead (W)

FY 2019 MWRA Assessments

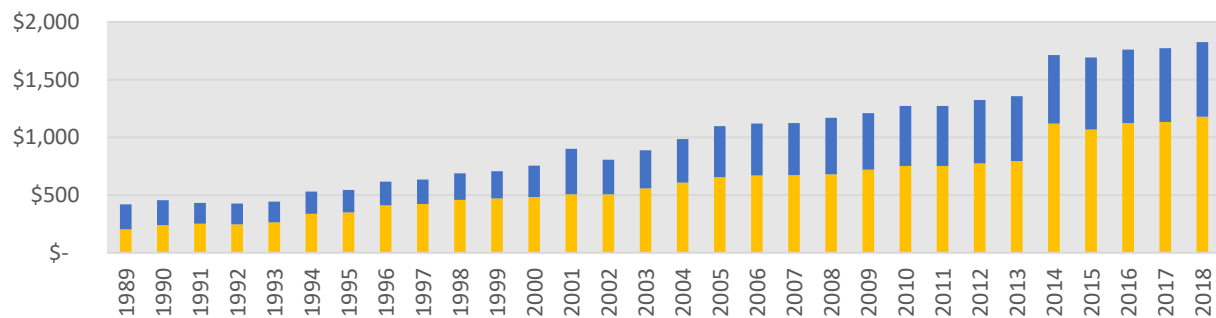
	FY18	FY19	% Change
Water	\$2,469,760	\$2,531,598	18.70%
Sewer	N/A	N/A	N/A
Combined	\$2,469,760	\$2,531,598	18.70%



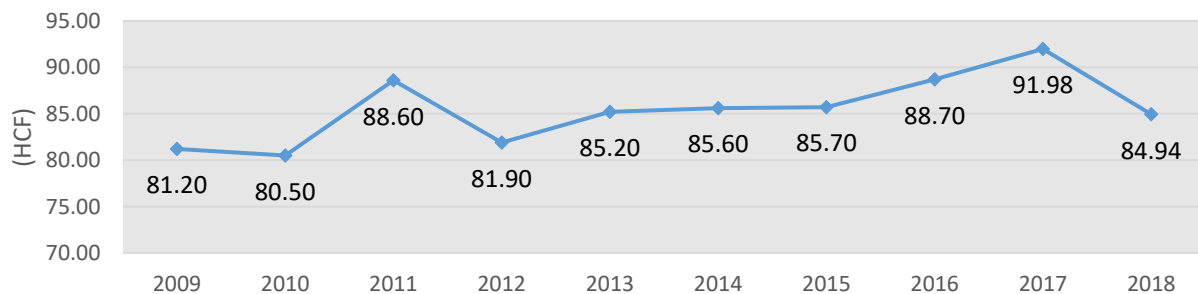
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2017
Water	\$852.00	0.00%
Sewer	\$878.40	0.00%
Combined	\$1,730.40	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$401.44
Sewer	\$413.88
Combined	\$815.32

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

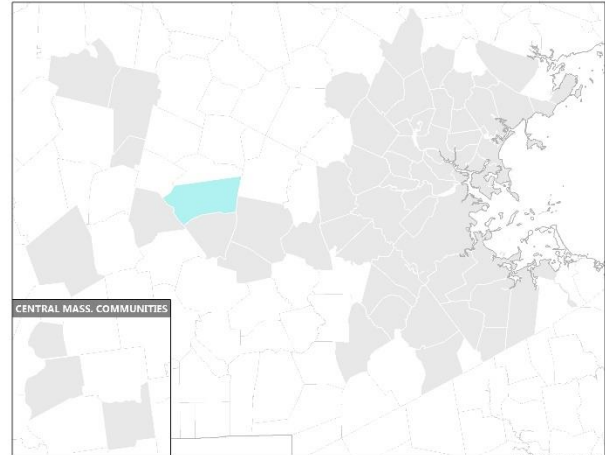
Additional 2018 Data by Community

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	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY18	No Response	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

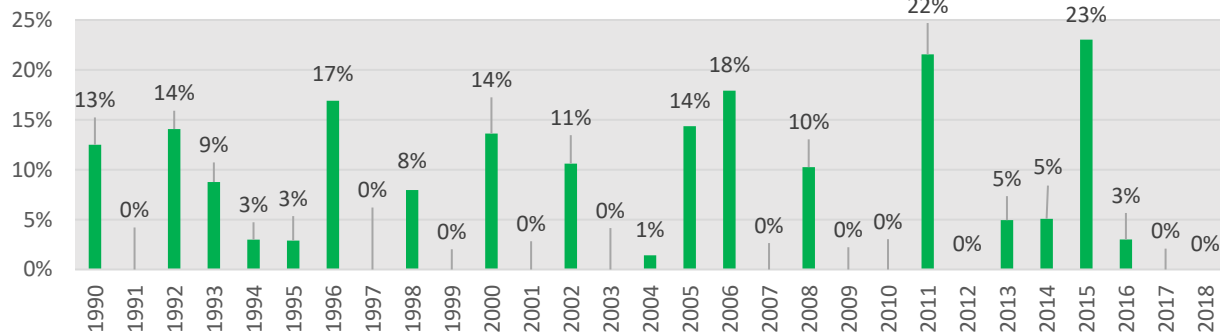
Marlborough (partial W)

FY 2019 MWRA Assessments

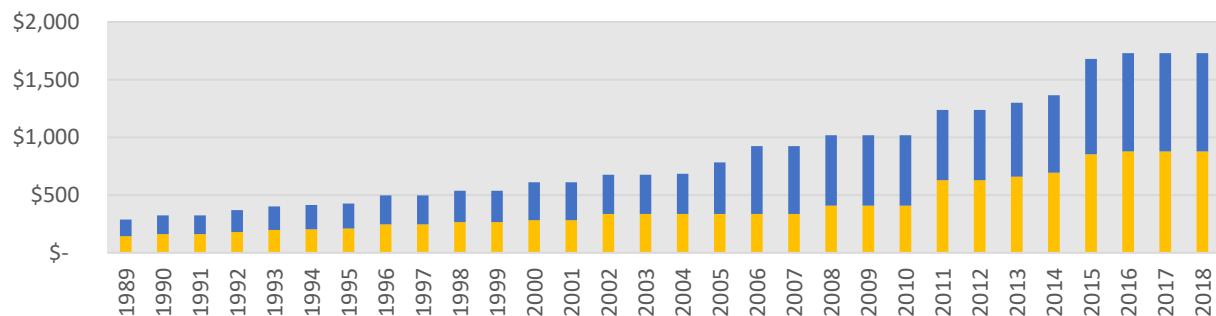
	FY18	FY19	% Change
Water	\$4,902,062	\$5,820,947	18.70%
Sewer	N/A	N/A	N/A
Combined	\$4,902,062	\$5,820,947	18.70%



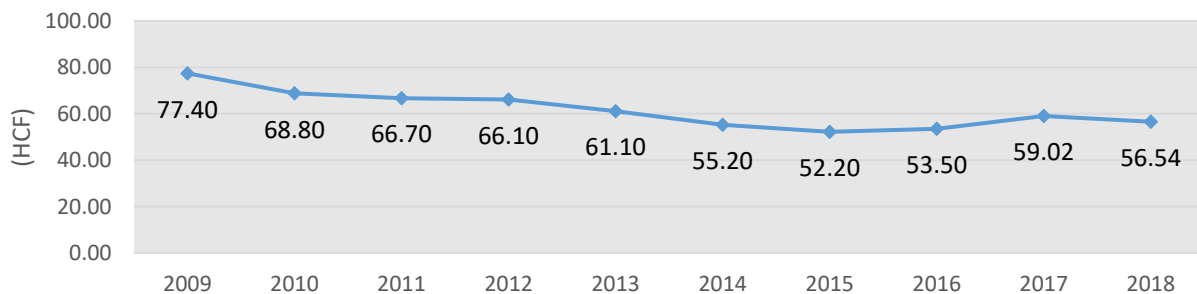
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Medford (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 8 HCF \$ 5.59/HCF
 >8-16 HCF \$ 5.97 "
 >16 HCF \$ 6.36 "

Billing Frequency: Bi-Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 8 HCF \$ 8.33/HCF
 >8-16 HCF \$ 8.91 "
 >16 HCF \$ 9.49 "

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 2017
Water	\$707.52	4.02%
Sewer	\$1,055.28	4.00%
Combined	\$1,762.80	4.01%

Annual Cost Based on Local, State & Federal Data

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

Water	\$312.23
Sewer	\$465.37
Combined	\$777.60

Commercial Water Rates:

All units \$ 5.74/HCF

Commercial Sewer Rates:

All units \$ 8.57/HCF

Additional 2018 Data by Community

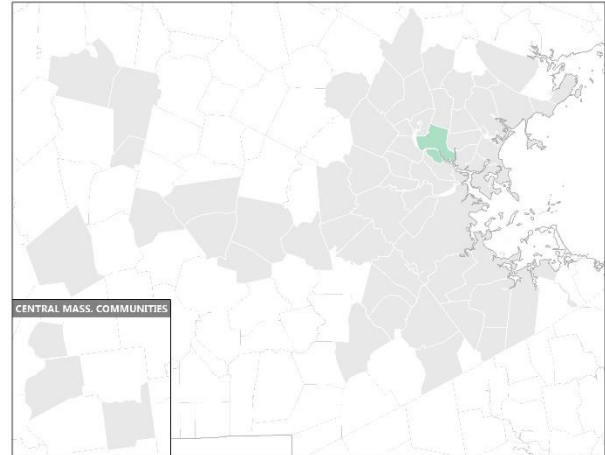
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
Water System		Sewer System	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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.
- 2nd meter (irrigation) rate is \$6.31/HCF for all residential units with city irrigation meter.

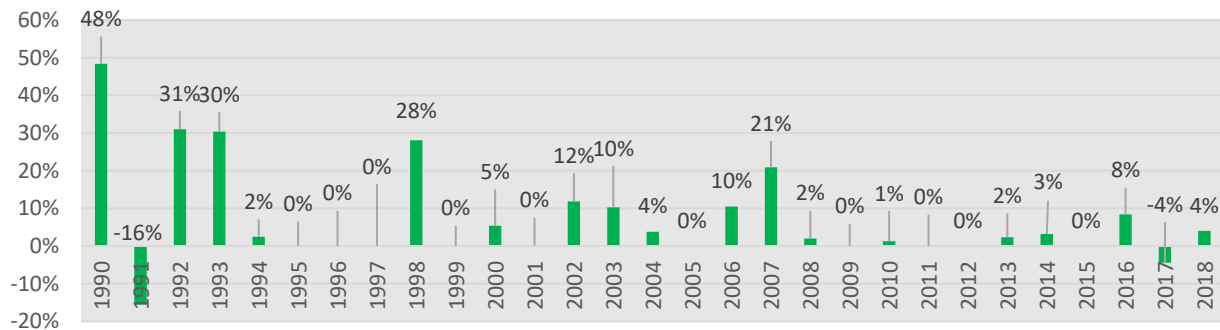
Medford (W/S)

FY 2019 MWRA Assessments

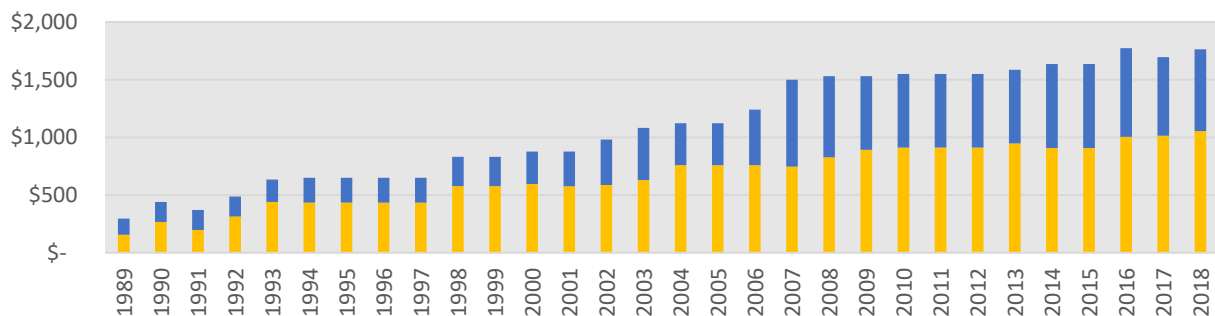
	FY18	FY19	% Change
Water	\$6,383,291	\$6,462,326	1.20%
Sewer	\$12,118,702	\$12,356,732	2.00%
Combined	\$18,501,993	\$18,819,058	1.70%



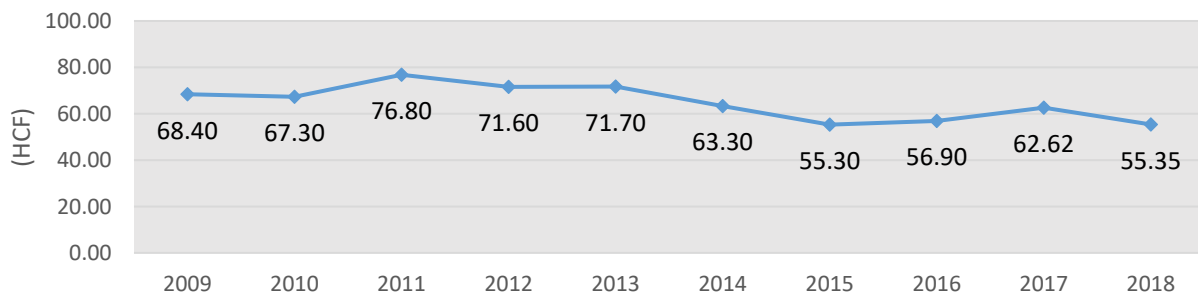
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Melrose (W/S)

Residential Water Rates:

Last adjusted: October 2018
 Next adjustment scheduled: October 2019
 Fund: Enterprise

Base Fee (up to 1" meter) \$16.60
 0 – 20 HCF \$ 6.44/HCF
 >20 HCF \$ 8.75 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: October 2018
 Next adjustment scheduled: October 2019
 Fund: Enterprise

Base Fee (up to 1" meter) \$19.95
 0 – 20 HCF \$ 11.62/HCF
 >20 HCF \$ 14.64 "

Based on 90% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$931.60	1.44%
Sewer	\$1,419.32	1.63%
Combined	\$2,350.92	1.56%

Annual Cost Based on Local, State & Federal Data

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

Water	\$388.54
Sewer	\$602.92
Combined	\$991.46

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

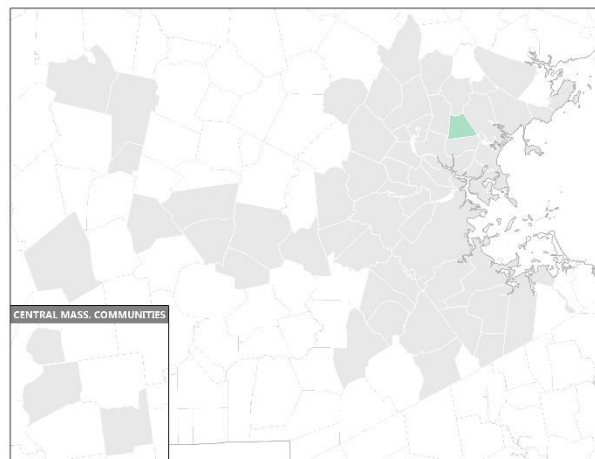
Additional 2018 Data by Community

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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	3 – 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	\$1 – 5 million	Anticipated Sewer Capital Spending over Next Five Years	\$1 – 5 million
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Rate	

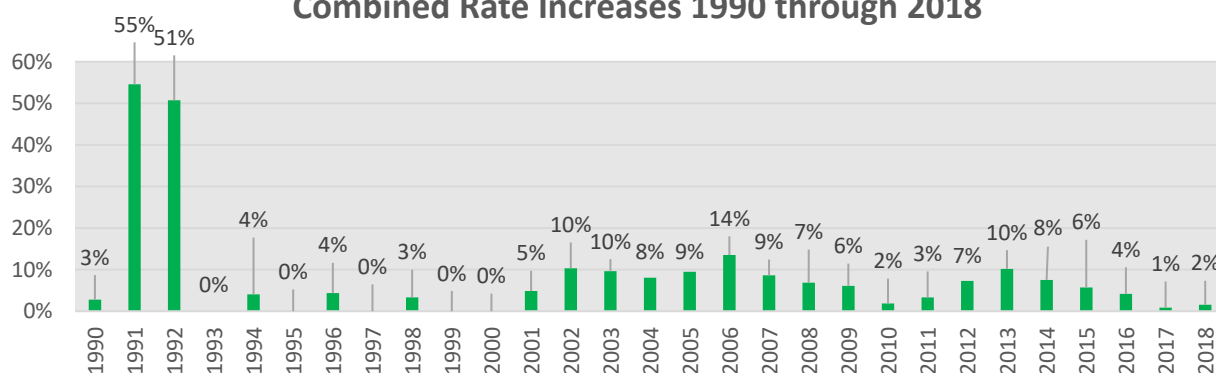
Melrose (W/S)

FY 2019 MWRA Assessments

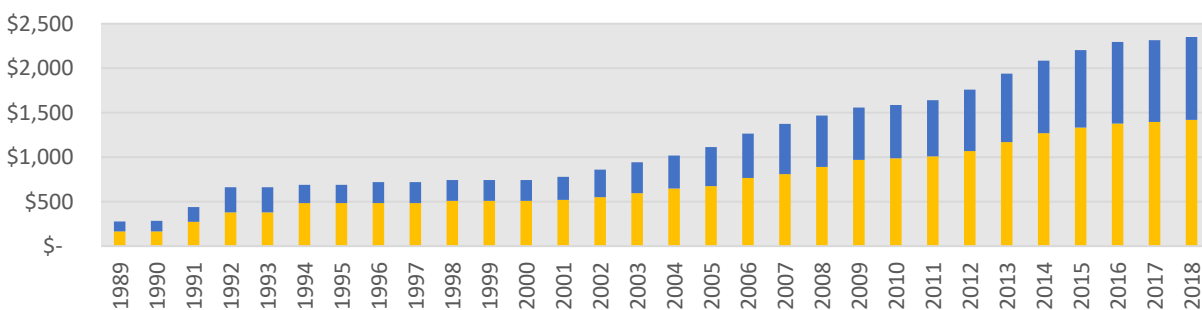
	FY18	FY19	% Change
Water	\$2,854,570	\$2,897,122	1.50%
Sewer	\$6,387,893	\$6,520,195	2.10%
Combined	\$9,242,463	\$9,417,317	1.90%



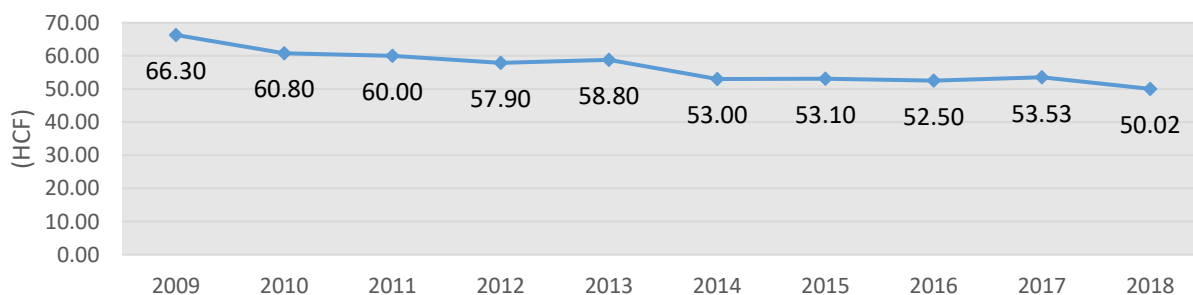
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Milton (W/S)

Residential Water Rates:

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

Minimum charge (includes 0 – 6 HCF) \$41.16/bill
 >6 – 30 HCF \$12.93/HCF
 >30 – 60 HCF \$14.24 "
 >60 HCF \$15.21 "

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 2017
Water	\$771.60	1.39%
Sewer	\$1,405.92	2.22%
Combined	\$2,177.52	1.92%

Annual Cost Based on Local, State & Federal Data

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

Water	\$638.38
Sewer	\$1,049.02
Combined	\$1,687.39

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

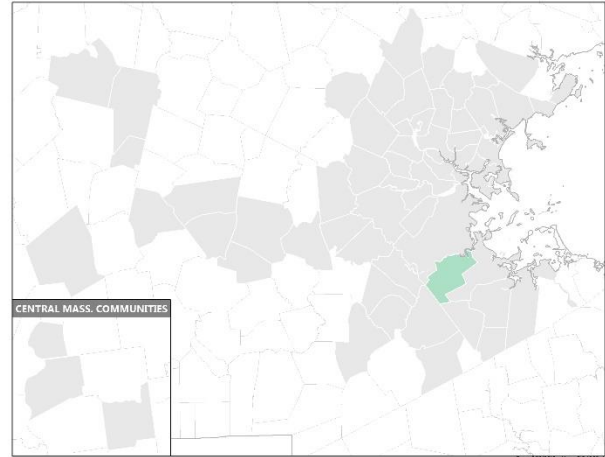
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	No
Water System		Sewer System	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY18	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	

Milton is 1 of 4 MWRA communities that has established a special assessment to fund stormwater-related costs. The residential stormwater fee is based on square footage of impervious area. For more information, see [Appendix G](#).

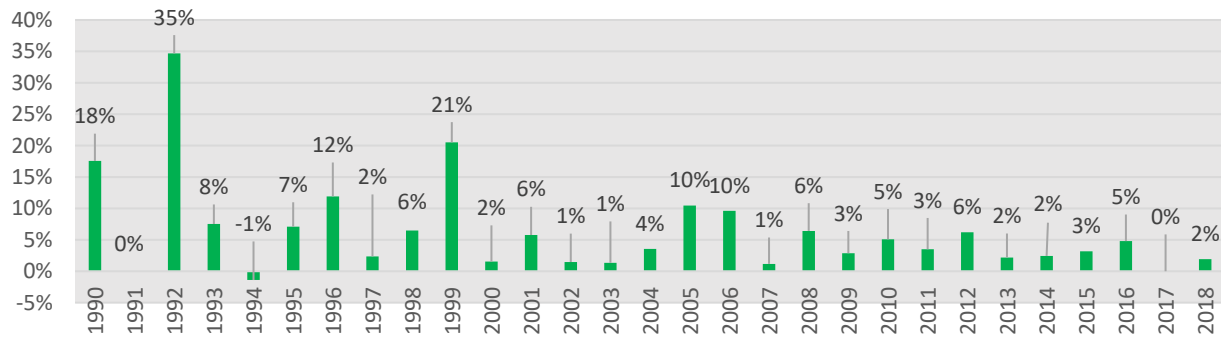
Milton (W/S)

FY 2019 MWRA Assessments

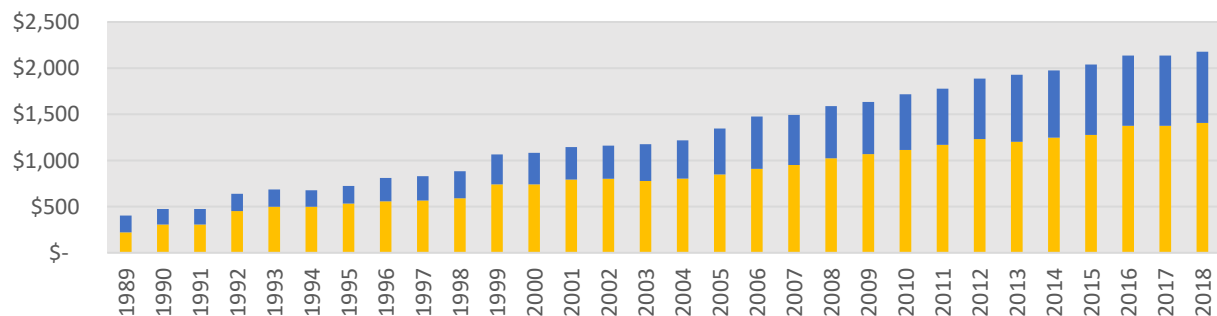
	FY18	FY19	% Change
Water	\$3,495,641	\$3,463,069	-0.90%
Sewer	\$5,450,348	\$5,556,575	1.90%
Combined	\$8,945,989	\$9,019,644	0.80%



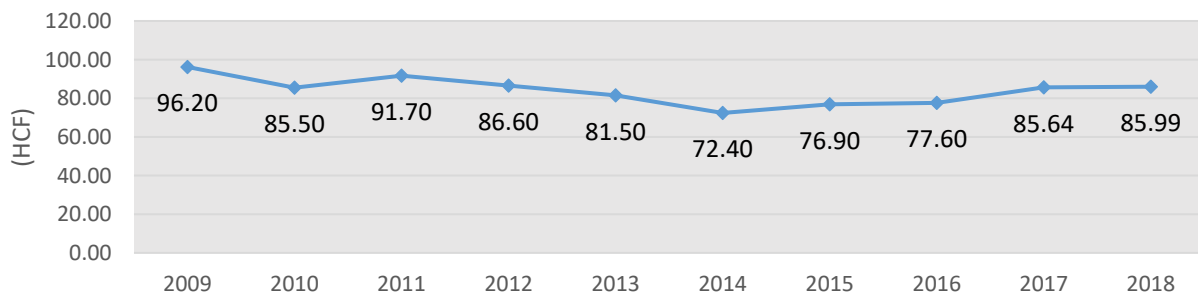
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Nahant (W)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$ 8.86 /HCF

Billing Frequency: Tri-Annually

Residential Sewer Rates:

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

All units \$ 8.96 /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 2017
Water	\$1,063.20	19.41%
Sewer	\$1,075.20	0.90%
Combined	\$2,138.40	9.33%

Annual Cost Based on Local, State & Federal Data

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

Water	\$885.97
Sewer	\$895.97
Combined	\$1,781.94

- ♦ 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 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Both
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 FY19	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY19	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

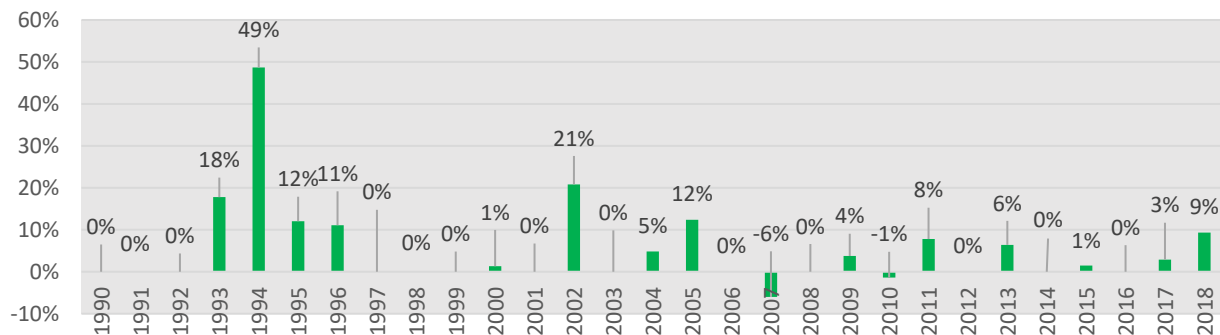
Nahant (W)

FY 2019 MWRA Assessments

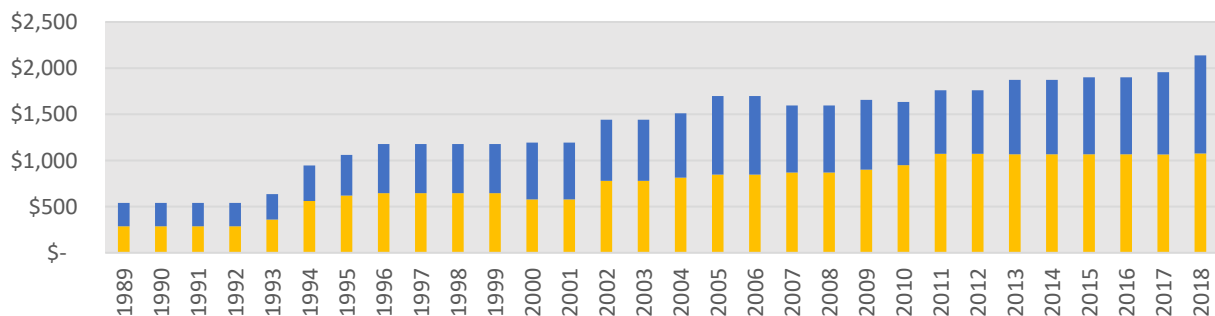
	FY18	FY19	% Change
Water	\$537,696	\$496,315	-7.70%
Sewer	N/A	N/A	N/A
Combined	\$537,696	\$496,315	-7.70%



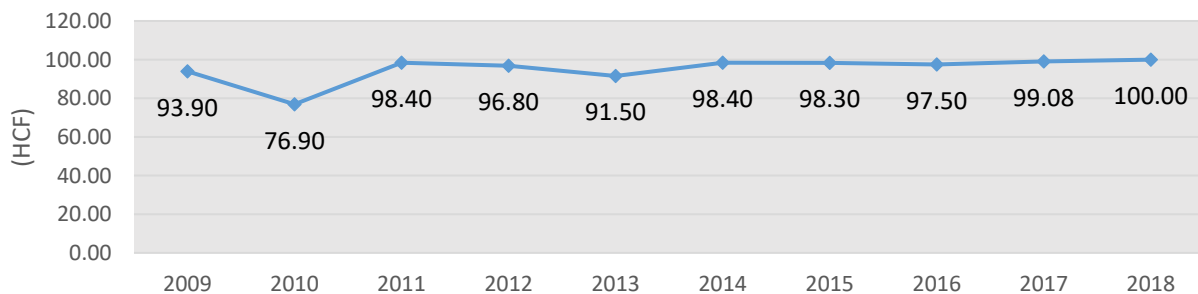
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Natick (S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 10 HCF \$1.89/HCF
 >10 – 20 HCF \$2.90 "
 >20 – 40 HCF \$4.30 "
 >40 HCF \$10.81 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 10 HCF \$5.38/HCF
 >10 – 20 HCF \$9.58 "
 >20 HCF \$15.84 "

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 2017
Water	\$363.60	6.94%
Sewer	\$1,232.00	9.76%
Combined	\$1,595.60	9.11%

Annual Cost Based on Local, State & Federal Data

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

Water	\$171.41
Sewer	\$531.71
Combined	\$703.13

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

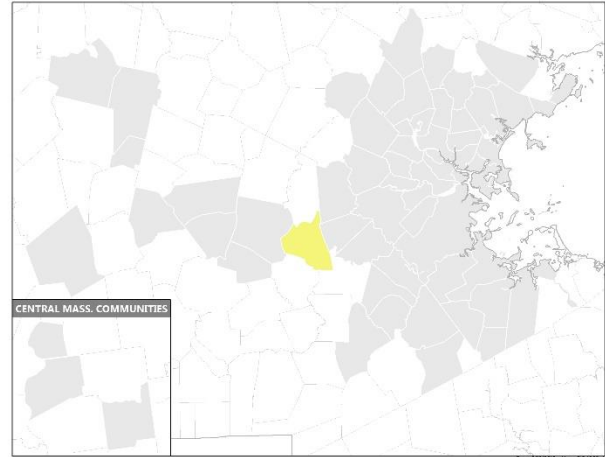
Additional 2018 Data by Community

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	No Response	MWRA Charges as % of Total Community Sewer Expenses	No Response
Miles of water pipeline replaced/rehabilitated in FY18	No Response	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

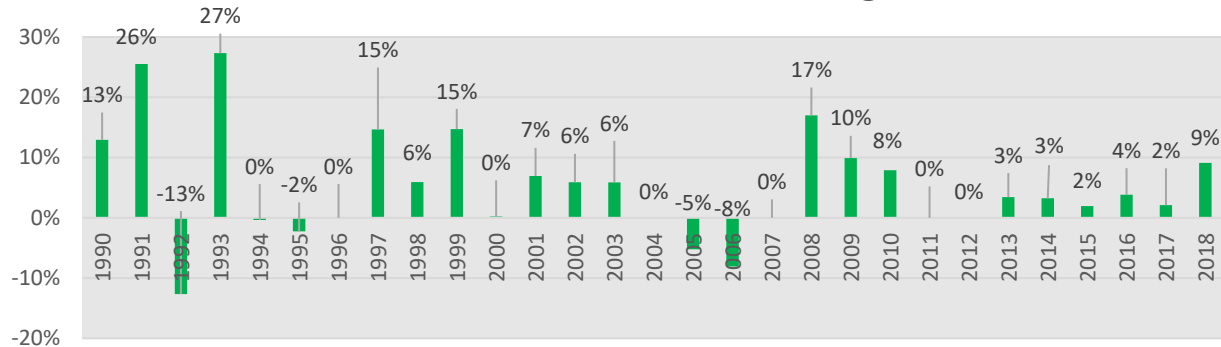
Natick (S)

FY 2019 MWRA Assessments

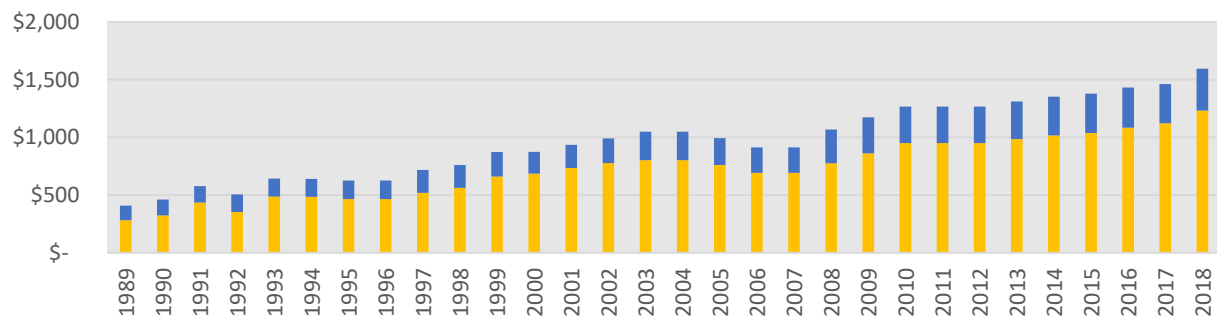
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$5,924,062	\$5,972,626	0.80%
Combined	\$5,924,062	\$5,972,626	0.80%



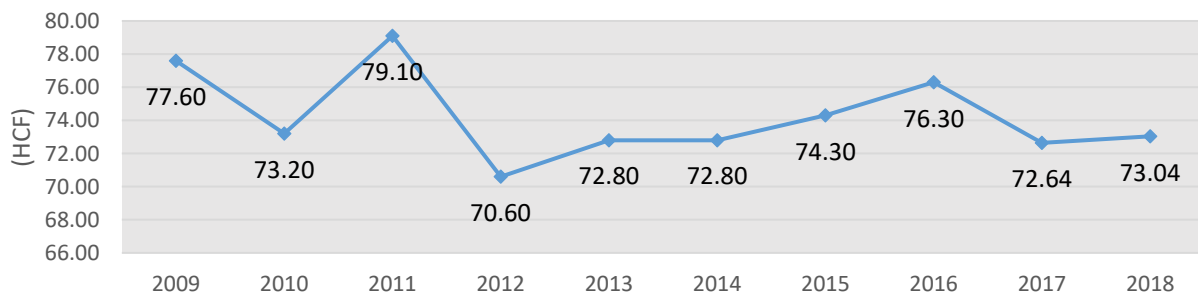
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Needham (S/partial W)

Residential Water Rates:

Last adjusted: July 2016
 Next adjustment scheduled: July 2019
 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 2019
 Fund: Enterprise

Basic Service Fee: \$9.00
 0 – 6 HCF \$ 8.82/HCF
 >6 – 27 HCF \$ 9.74 "
 >27 – 42 HCF \$ 10.51 "
 >42 HCF \$ 11.46 "

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 2017
Water	\$461.40	-2.16%
Sewer	\$1,191.96	0.82%
Combined	\$1,653.36	-0.03%

Annual Cost Based on Local, State & Federal Data

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

Water	\$316.43
Sewer	\$784.94
Combined	\$1,101.37

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

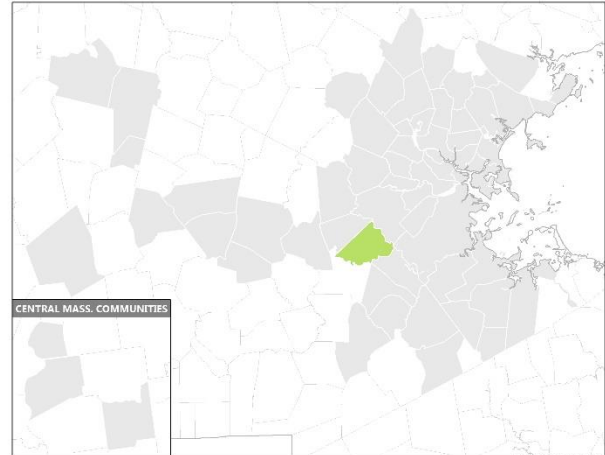
Additional 2018 Data by Community

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	25-50%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

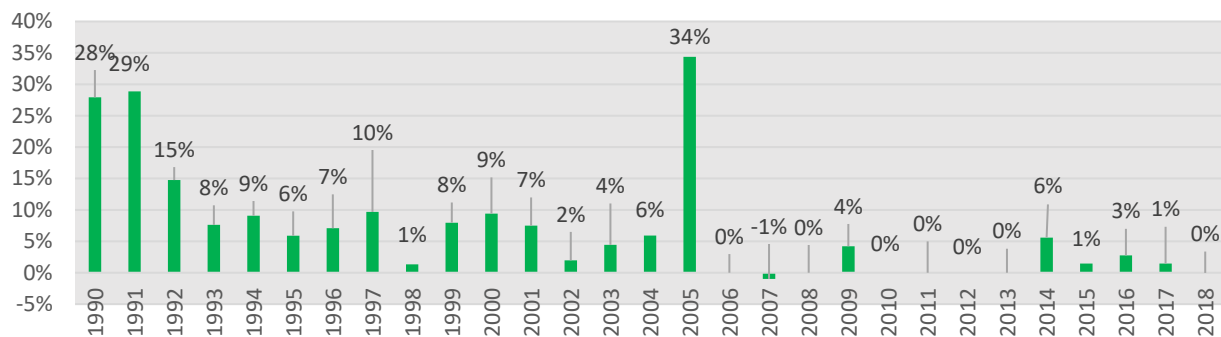
Needham (S/partial W)

FY 2019 MWRA Assessments

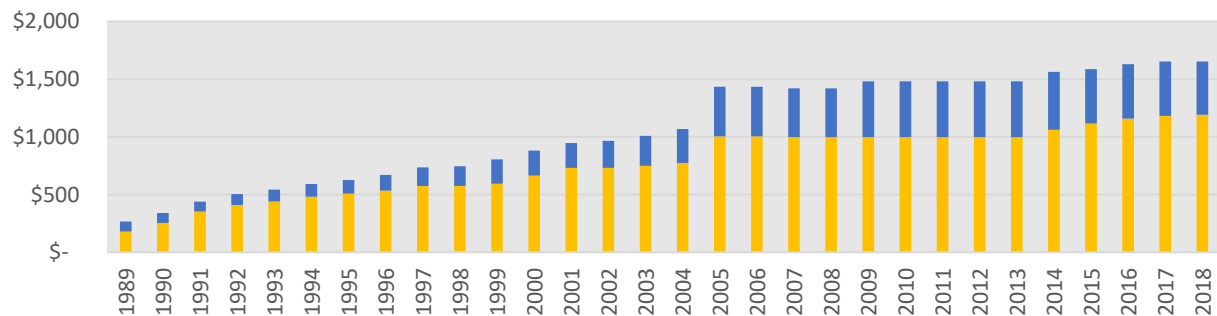
	FY18	FY19	% Change
Water	\$1,109,794	\$856,049	-22.90%
Sewer	\$5,889,796	\$6,173,219	4.80%
Combined	\$6,999,590	\$7,029,268	0.40%



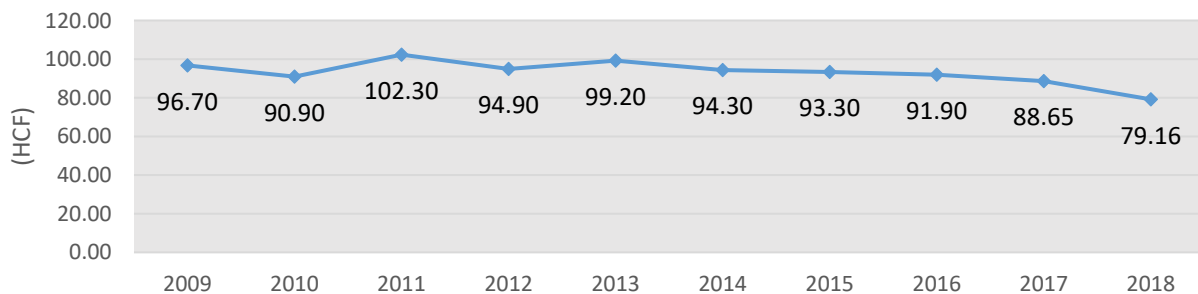
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Newton (W/S)

Residential Water Rates:

Last adjusted: July 2017
 Next adjustment scheduled: July 2019
 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 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 10 HCF \$10.55/HCF
 >10 – 25 HCF \$12.30 "
 >25 – 60 HCF \$13.20 "
 >60 HCF \$15.20 "

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 2017
Water	\$894.80	0.00%
Sewer	\$1,424.00	7.31%
Combined	\$2,318.80	4.37%

Annual Cost Based on Local, State & Federal Data

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

Water	\$434.33
Sewer	\$697.67
Combined	\$1,132.01

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

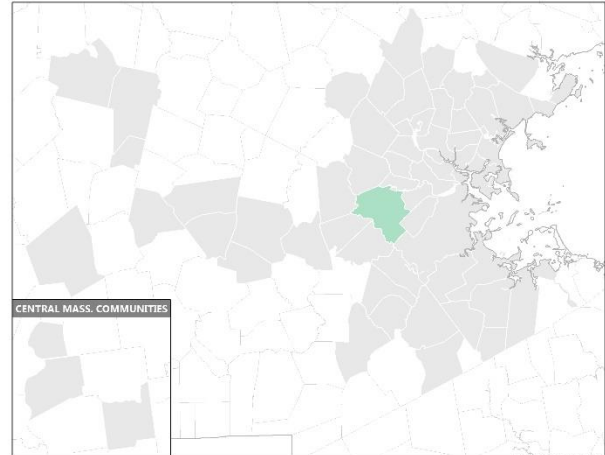
Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
Water System		Sewer System	
MWRA Charges as % of Total Community Water Expenses	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY18	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Special Assessment/ Fee	

Newton is 1 of 4 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](#).

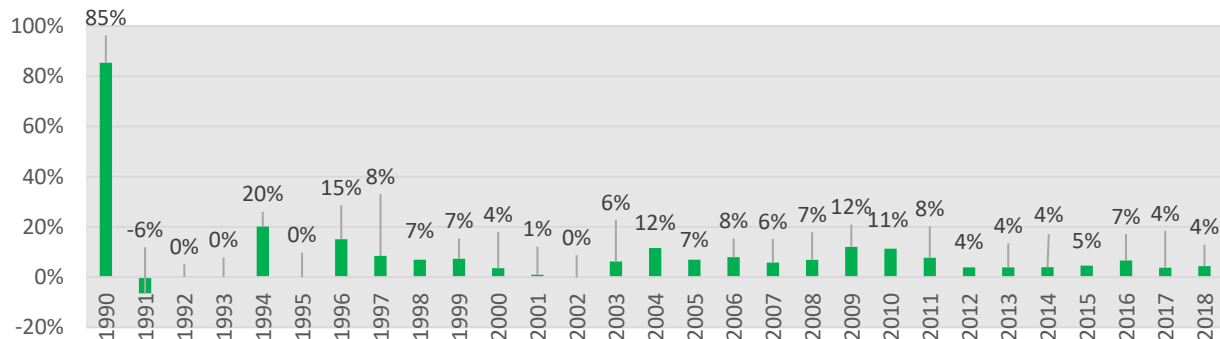
Newton (W/S)

FY 2019 MWRA Assessments

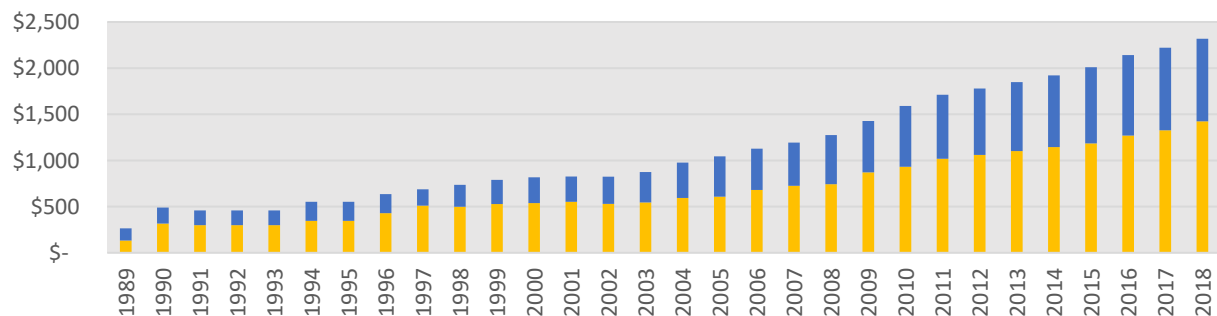
	FY18	FY19	% Change
Water	\$12,891,560	\$12,080,214	-6.30%
Sewer	\$21,760,724	\$23,348,192	2.70%
Combined	\$34,652,284	\$34,428,406	-0.60%



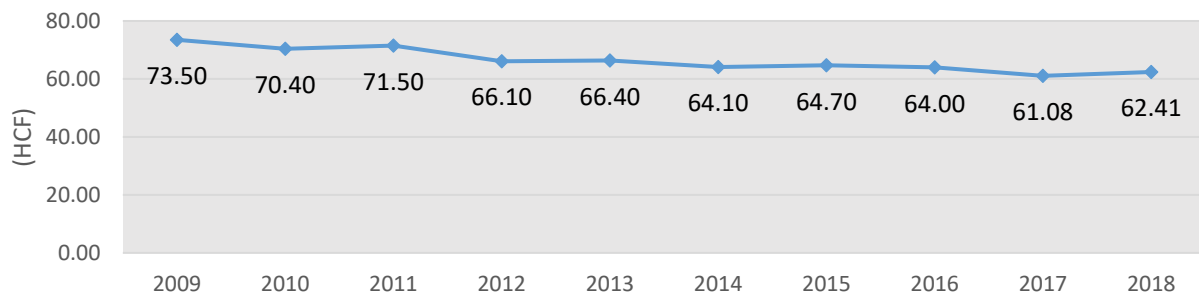
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2017
Water	\$614.48	0.00%
Sewer	\$1,312.64	0.00%
Combined	\$1,927.12	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$285.71
Sewer	\$591.01
Combined	\$876.71

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

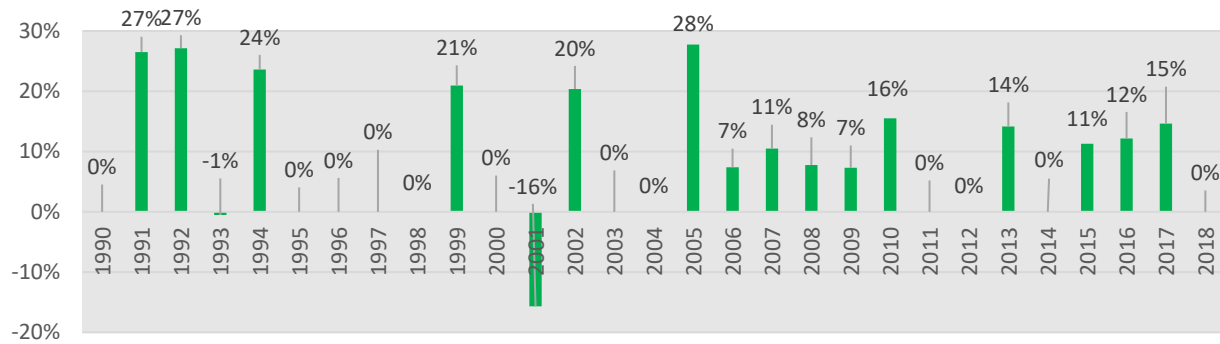
Northborough (partial W)

FY 2019 MWRA Assessments

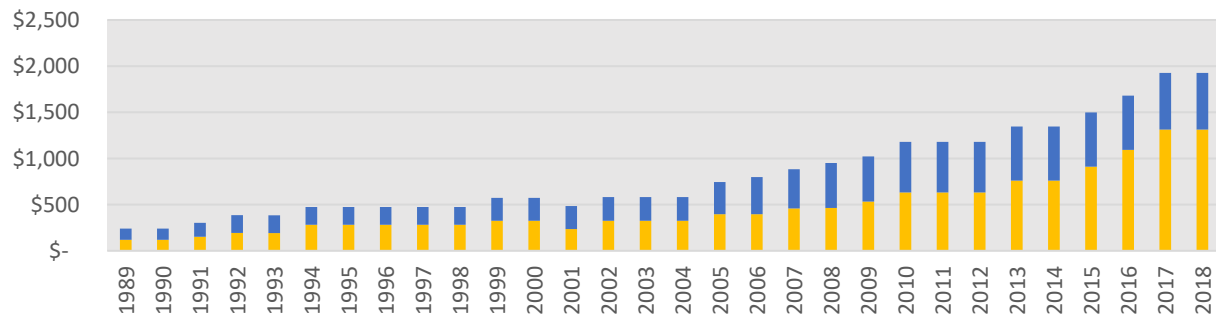
	FY18	FY19	% Change
Water	\$1,240,294	\$1,271,058	2.50%
Sewer	N/A	N/A	N/A
Combined	\$1,240,294	\$1,271,058	2.50%



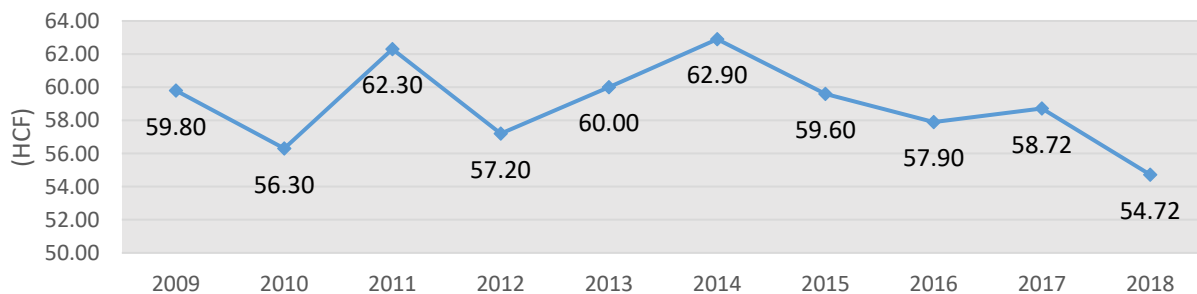
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Norwood (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Meter charge (5/8") \$4.75/month
 0 – 5 HCF \$3.34/HCF
 >5 HCF \$6.43 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 3 HCF \$8.53/HCF
 >3 HCF \$16.45 "

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 2017
Water	\$643.20	5.85%
Sewer	\$899.28	7.21%
Combined	\$1,542.48	6.64%

Annual Cost Based on Local, State & Federal Data

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

Water	\$280.34
Sewer	\$342.30
Combined	\$622.64

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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 Over 75%

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

Miles of water pipeline replaced/rehabilitated in FY18 1 – 3

Miles of sewer pipeline replaced/rehabilitated in FY18 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 \$100 thousand – \$1 million

Anticipated Sewer Capital Spending over Next Five Years \$100 thousand – \$1 million

Stormwater

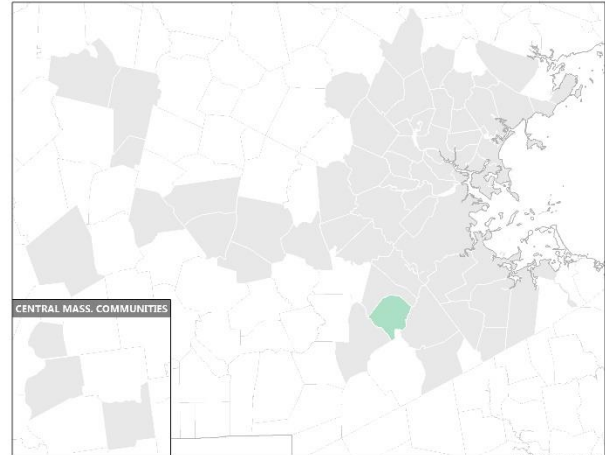
Current Funding Source of Stormwater-Related Costs:

Tax Levy (DPW Budget)

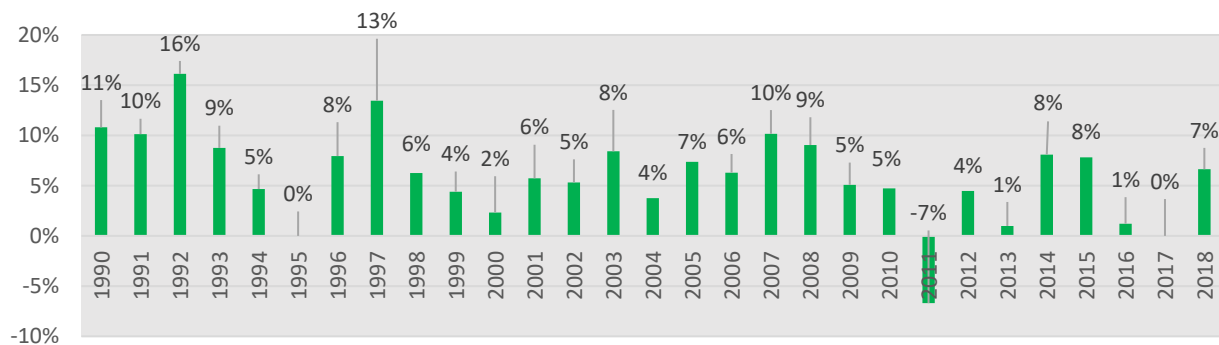
Norwood (W/S)

FY 2019 MWRA Assessments

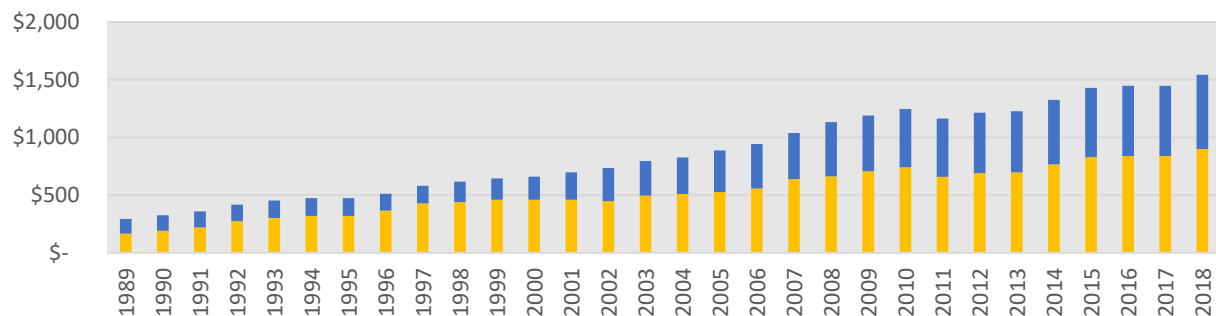
	FY18	FY19	% Change
Water	\$3,703,392	\$4,064,489	9.80%
Sewer	\$7,436,847	\$7,628,062	2.60%
Combined	\$11,140,239	\$11,692,551	5.00%



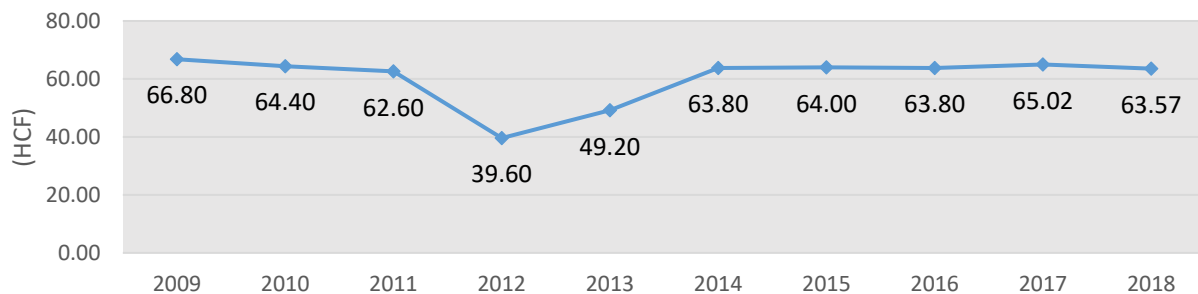
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2017
Water	\$337.20	0.00%
Sewer	\$451.80	0.00%
Combined	\$789.00	0.00%

Annual Cost Based on Local, State & Federal Data

(68.8 HCF – See Appendix C

for Data & Calc.)

Water	\$187.25
Sewer	\$249.65
Combined	\$436.90

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

Commercial Water Rates:

0-15 HCF \$3.20/HCF
 >15-150 HCF \$ 3.49 "
 >150 HCF \$ 3.79 "

Commercial Sewer Rates:

0-15 HCF \$4.14/HCF
 >15 HCF \$4.56 "

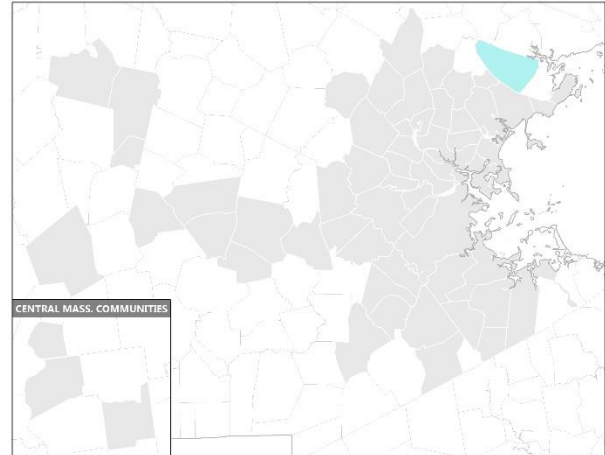
Additional 2018 Data by Community

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	No Response	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY18	No Response	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

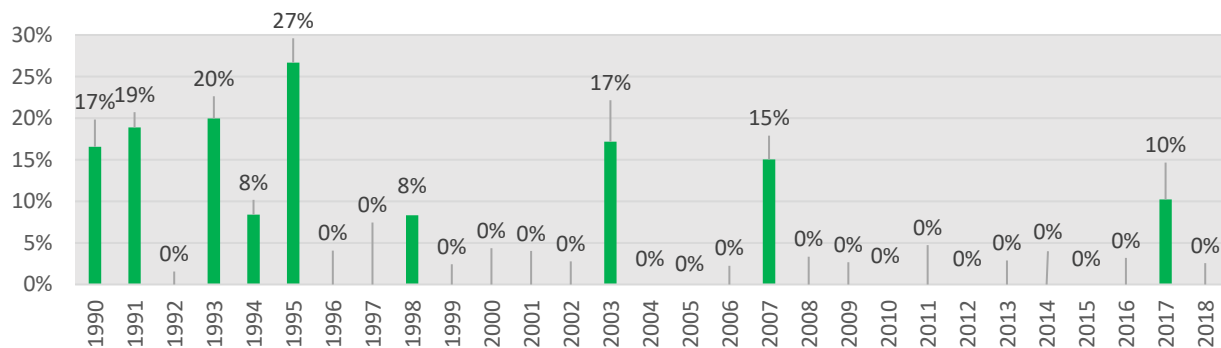
Peabody (partial W)

FY 2019 MWRA Assessments

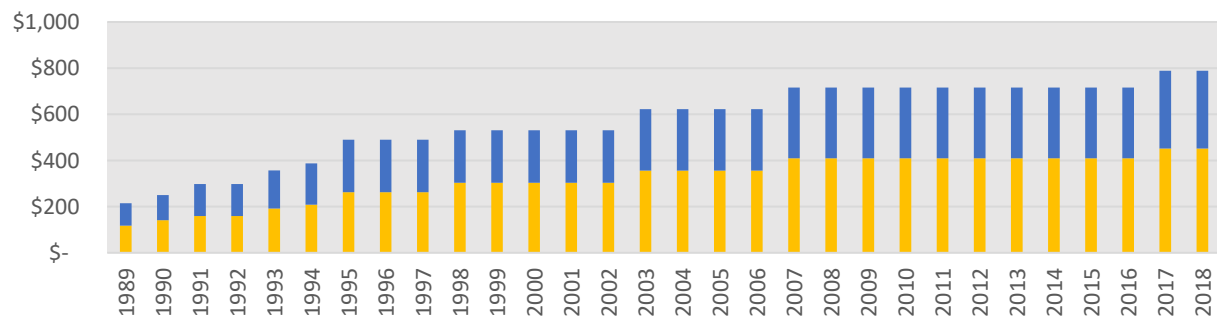
	FY18	FY19	% Change
Water	\$1,939,097	\$4,162,771	114.70%
Sewer	N/A	N/A	N/A
Combined	\$1,939,097	\$4,162,771	114.70%



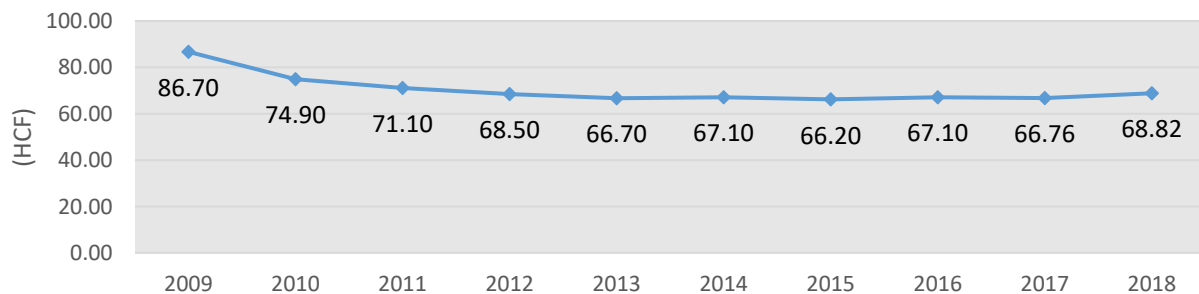
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Quincy (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$6.67/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$14.24/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 2017
Water	\$800.40	3.09%
Sewer	\$1,196.16	2.08%
Combined	\$1,996.56	2.48%

Annual Cost Based on Local, State & Federal Data

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

Water	\$302.37
Sewer	\$150.63
Combined	\$453.00

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

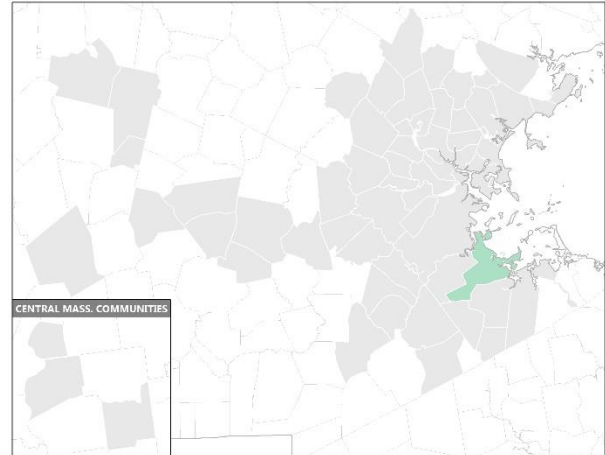
Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
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 FY18	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

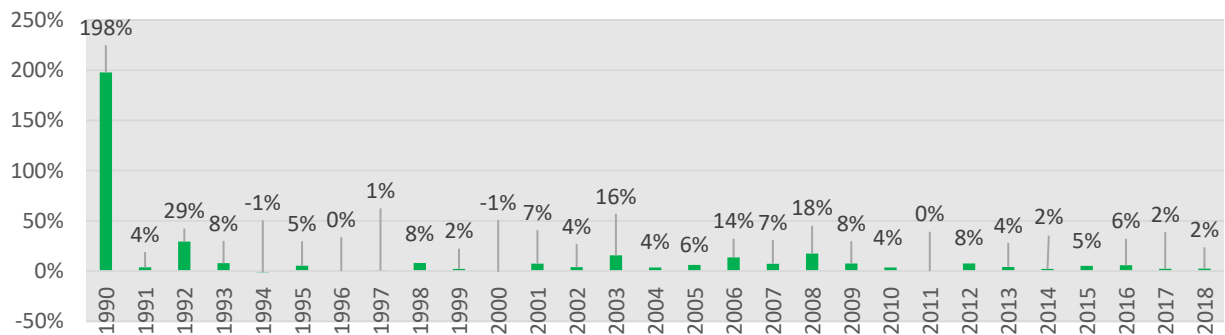
Quincy (W/S)

FY 2019 MWRA Assessments

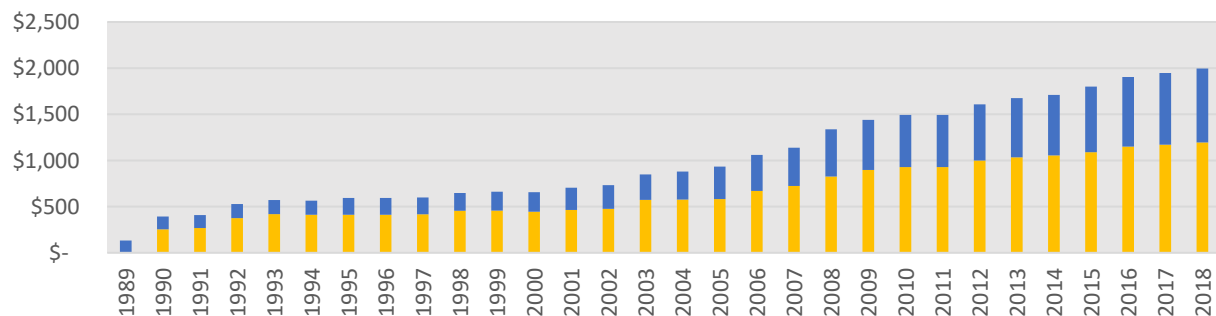
	FY18	FY19	% Change
Water	\$12,199,555	\$11,998,387	-1.60%
Sewer	\$20,574,282	\$20,708,161	0.70%
Combined	\$32,773,837	\$32,706,548	-0.20%



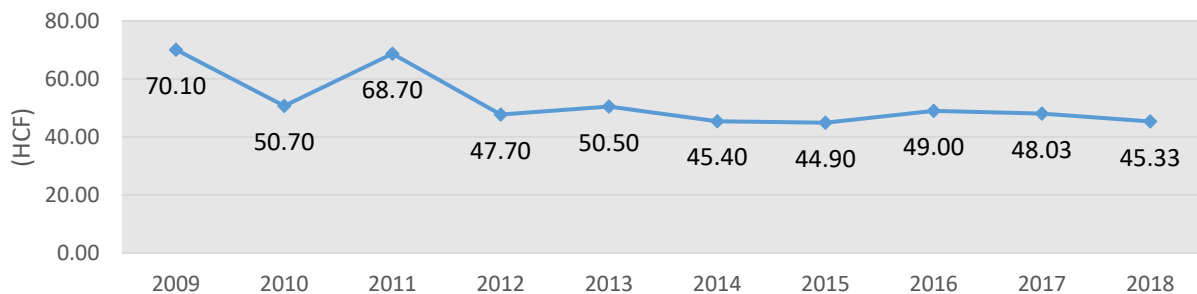
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Randolph (S)

Residential Water Rates:

Last adjusted:	July 2018
Next adjustment scheduled:	July 2019
Fund:	Enterprise
Base charge:	\$25.00
0 – 25 HCF	\$ 4.27/HCF
>25 HCF	\$ 5.43 "
Billing Frequency:	Quarterly

Residential Sewer Rates:

Last adjusted:	July 2018
Next adjustment scheduled:	July 2019
Fund:	Enterprise
Base charge:	\$12.50
0 – 25 HCF	\$ 7.08/HCF
>25 HCF	\$ 12.16 "
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 2017
Water	\$635.60	4.57%
Sewer	\$1,001.20	5.35%
Combined	\$1,636.80	5.04%

Annual Cost Based on Local, State & Federal Data

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

Water	\$358.65
Sewer	\$478.86
Combined	\$837.50

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second
Meters?

No

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

Yes, Senior

Water System

MWRA Charges as % of Total
Community Water Expenses

0-25%

Miles of water pipeline
replaced/rehabilitated in FY18

1 – 3

Water Capital Needs over Next
Five Years\$20 – 50
millionAnticipated Water Capital
Spending over Next Five YearsOver \$10
million

Sewer System

MWRA Charges as % of Total
Community Sewer Expenses

Over 75%

Miles of sewer pipeline
replaced/rehabilitated in FY18

Less than 1

Sewer Capital Needs over Next
Five Years

\$0 – 10 million

Anticipated Sewer Capital
Spending over Next Five Years

\$1 – 5 million

Stormwater

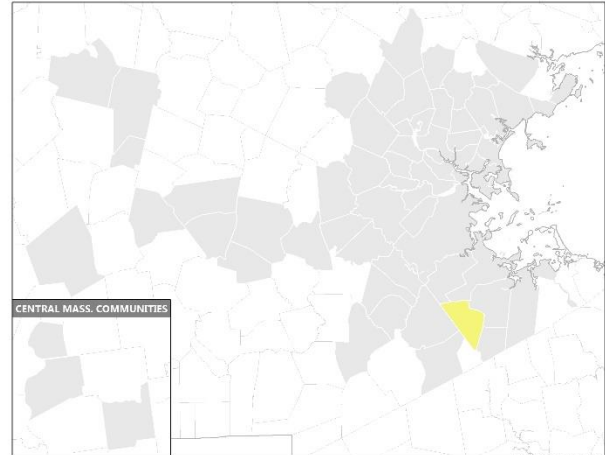
Current Funding Source of
Stormwater-Related Costs:

Tax Levy (DPW Budget)

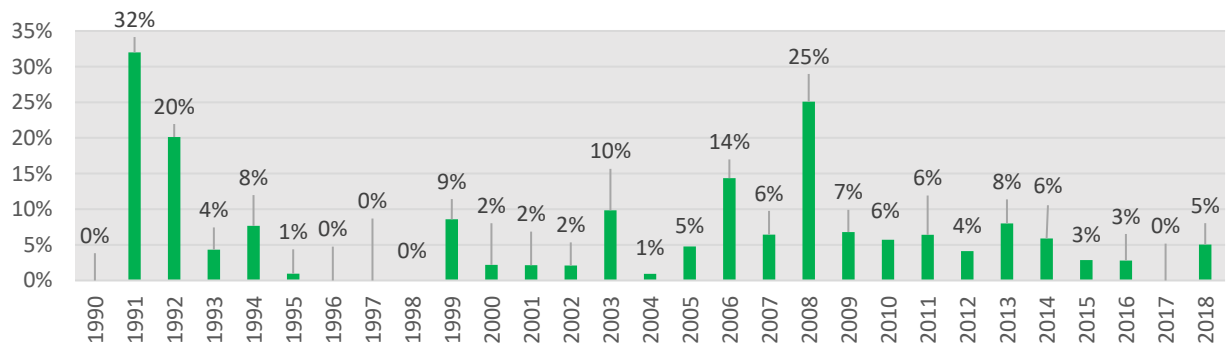
Randolph (S)

FY 2019 MWRA Assessments

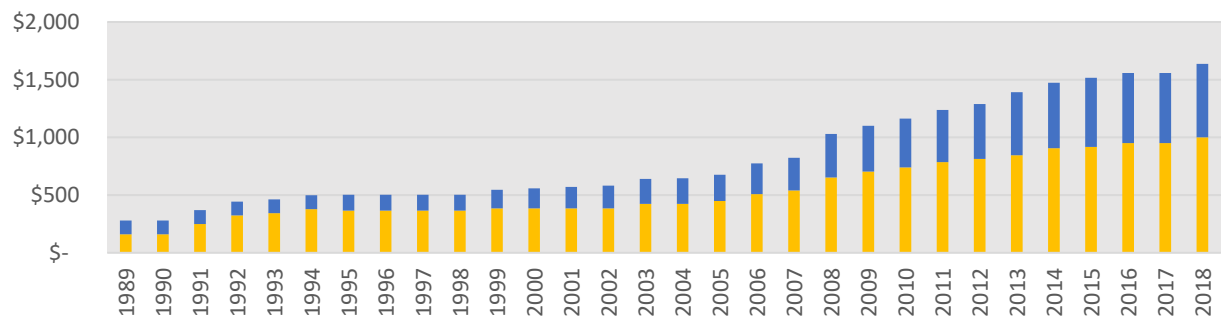
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$6,339,800	\$6,530,979	3.00%
Combined	\$6,339,800	\$6,530,979	3.00%



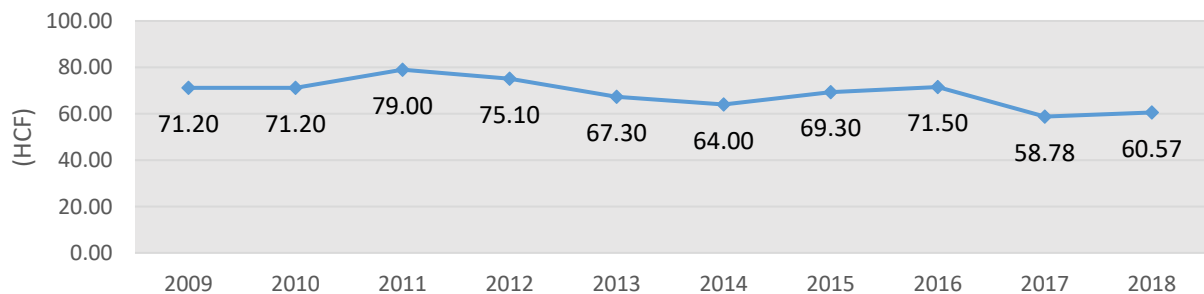
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2017
Water	\$1,200.00	0.00%
Sewer	\$1,220.40	0.00%
Combined	\$2,420.40	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$568.99
Sewer	\$578.66
Combined	\$1,147.65

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Flat Stormwater Fee	

Reading is 1 of 4 MWRA communities that has established a special assessment to fund stormwater-related costs. The residential stormwater fee is \$10 per quarter; \$40 per year. For more information, see [Appendix G](#).

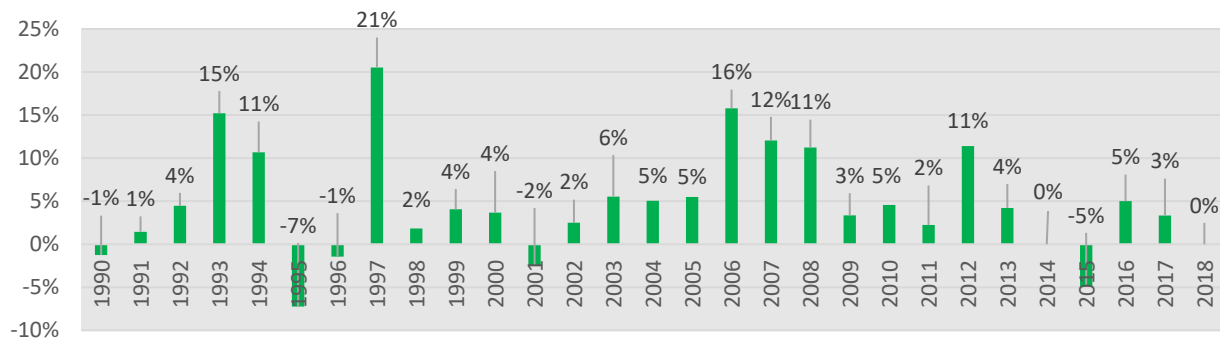
Reading (W/S)

FY 2019 MWRA Assessments

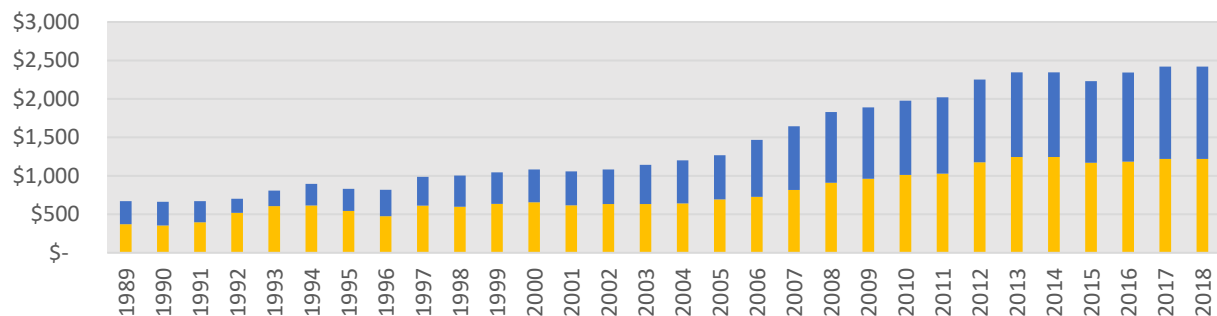
	FY18	FY19	% Change
Water	\$2,211,234	\$2,296,922	3.90%
Sewer	\$4,939,434	\$5,090,525	3.10%
Combined	\$7,150,668	\$7,387,447	3.30%



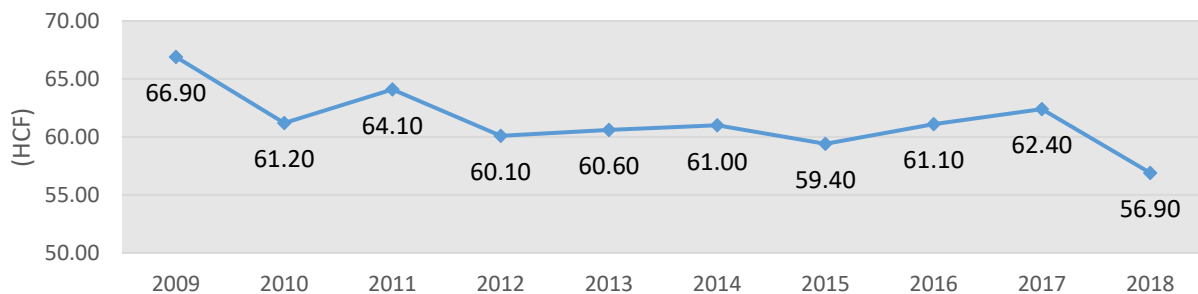
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Revere (W/S)

Residential Water Rates:

Last adjusted: July 2017
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$ 4.01/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$ 11.98HCF

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 2017
Water	\$481.20	0.00%
Sewer	\$1,437.60	-4.08%
Combined	\$1,918.80	-3.09%

Annual Cost Based on Local, State & Federal Data

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

Water	\$203.30
Sewer	\$607.37
Combined	\$810.67

Commercial Water Rates:

All units \$ 5.93/HCF

Commercial Sewer Rates:

All units \$18.55/HCF

Additional 2018 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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	25-50%
Miles of water pipeline replaced/rehabilitated in FY18	3 – 6	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

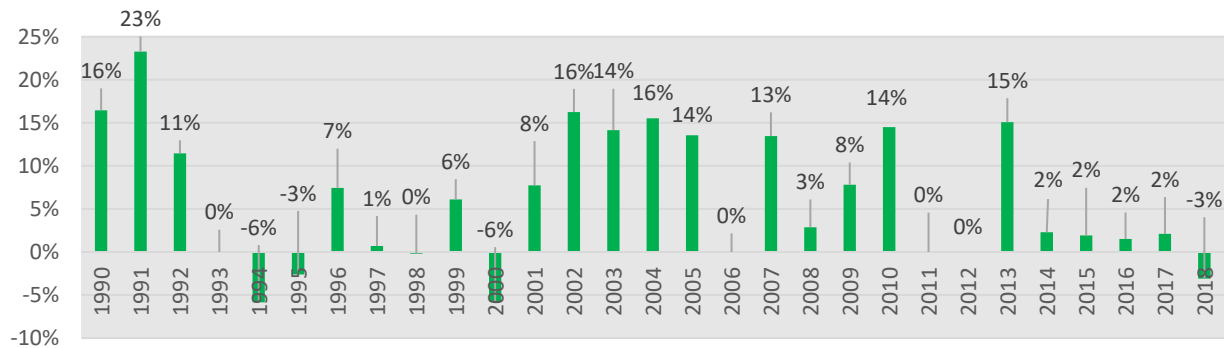
Revere (W/S)

FY 2019 MWRA Assessments

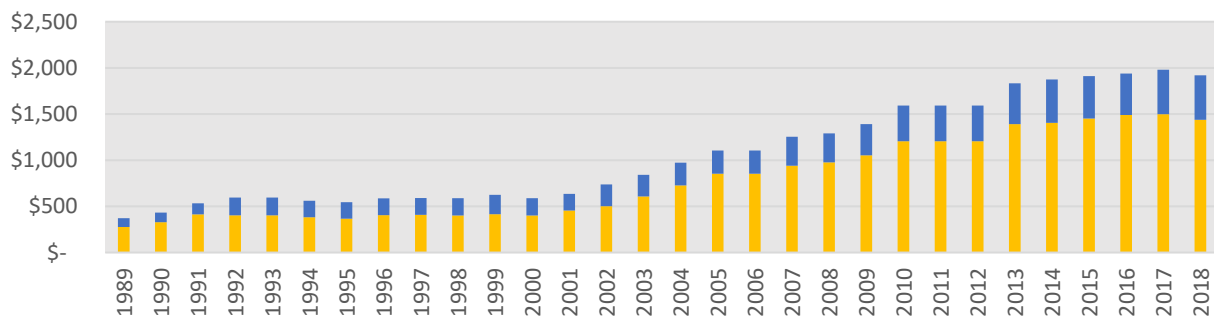
	FY18	FY19	% Change
Water	\$4,896,715	\$5,185,345	5.90%
Sewer	\$10,775,969	\$10,761,283	-0.10%
Combined	\$15,672,684	\$159,446,628	1.70%



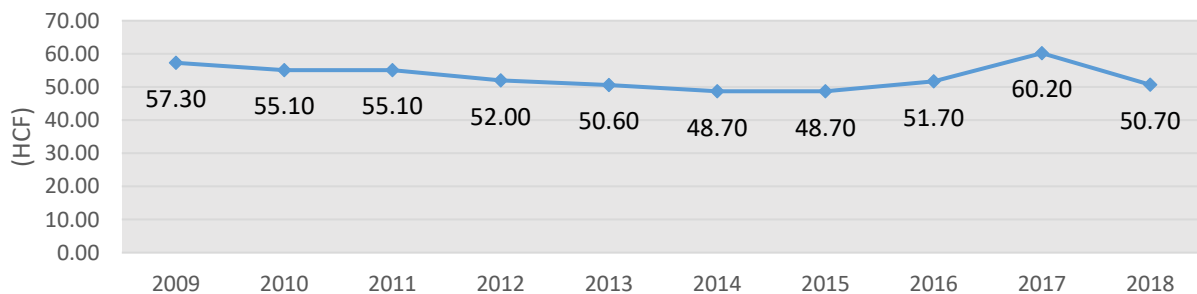
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Saugus (W)

Residential Water Rates:

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

Minimum Charge (20 HCF)	\$91.33
>20 – 30 HCF	\$ 4.87/HCF
>30 – 60 HCF	\$ 6.51 "
>60 – 100 HCF	\$ 8.14 "
>100 – 200 HCF	\$ 9.07 "
>200 – 500 HCF	\$ 10.17 "
>500 – 1,000 HCF	\$10.96 "
>1,000 HCF	\$11.27 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

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

Minimum Charge (20 HCF)	\$74.91
>20 – 30 HCF	\$ 2.56/HCF
>30 – 60 HCF	\$ 3.49 "
>60 – 100 HCF	\$ 4.89 "
>100 – 200 HCF	\$ 6.05 "
>200 – 500 HCF	\$ 7.22 "
>500 – 1,000 HCF	\$8.03 "
>1,000 HCF	\$ 8.38 "

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 2017
Water	\$670.66	3.00%
Sewer	\$396.80	1.69%
Combined	\$1,067.46	2.51%

Annual Cost Based on Local, State & Federal Data

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

Water	\$385.62
Sewer	\$243.99
Combined	\$629.61

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

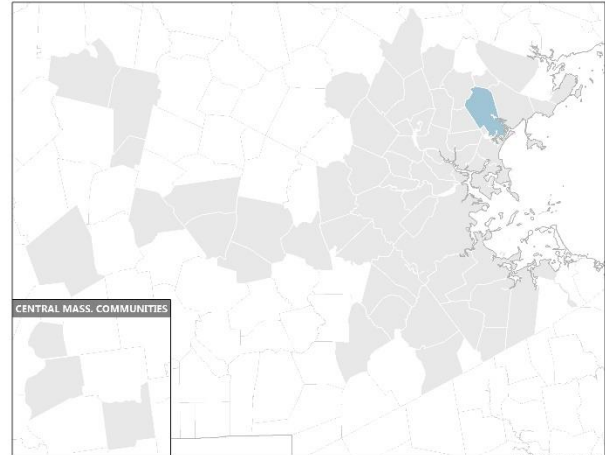
Additional 2018 Data by Community

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	No Response	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY19	No Response	Miles of sewer pipeline replaced/rehabilitated in FY19	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

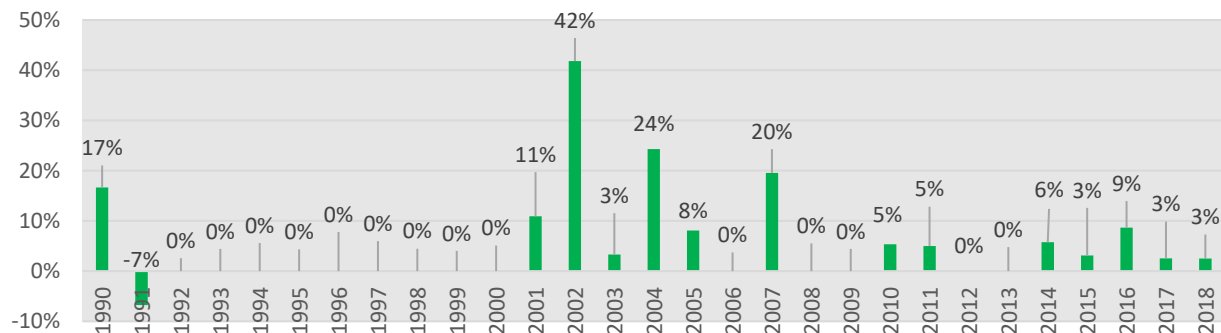
Saugus (W)

FY 2019 MWRA Assessments

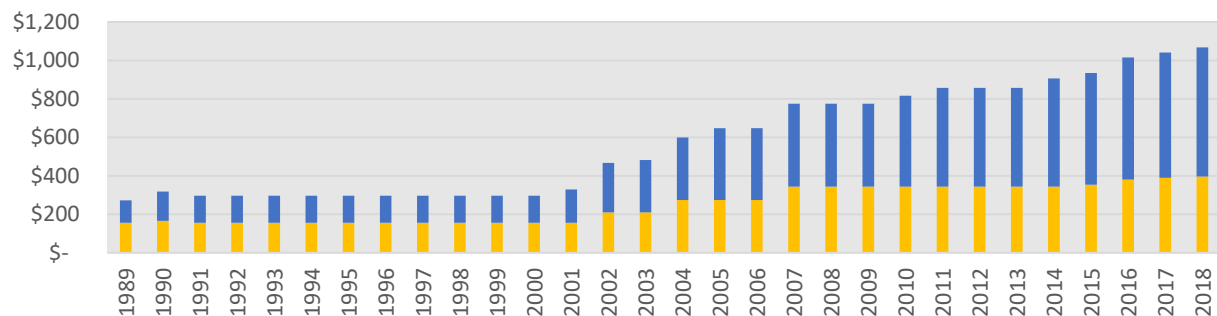
	FY18	FY19	% Change
Water	\$3,953,935	\$4,016,971	1.60%
Sewer	N/A	N/A	N/A
Combined	\$3,953,935	\$4,016,971	1.60%



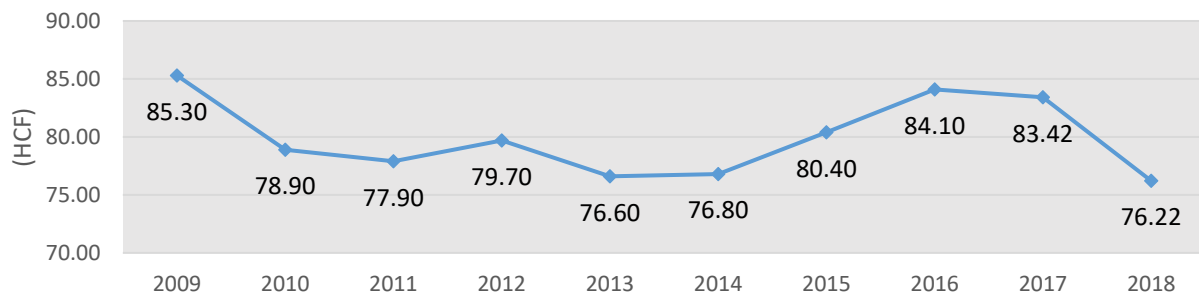
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Somerville (W/S)

Residential Water Rates:

Last adjusted: July 2016
 Next adjustment scheduled: July 2019
 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 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Sewer Fee \$40.00/bill
 0 – 13 HCF \$ 8.20/HCF
 >13 – 67 HCF \$10.46 "
 >67 – 133 HCF \$ 10.97 "
 >133 HCF \$11.36 "

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 2017
Water	\$645.03	0.00%
Sewer	\$1,287.06	4.46%
Combined	\$1,932.09	2.92%

Annual Cost Based on Local, State & Federal Data

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

Water	\$210.73
Sewer	\$537.38
Combined	\$748.11

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

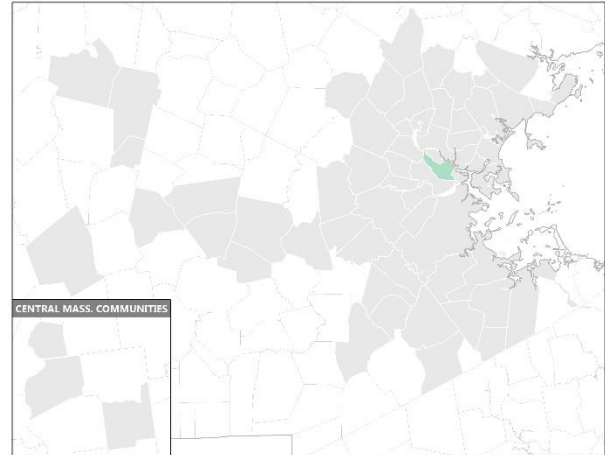
Additional 2018 Data by Community

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	50-75%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

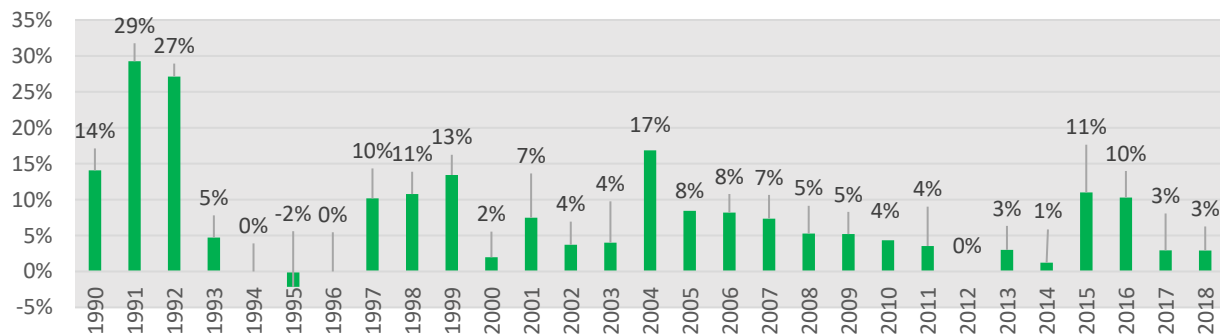
Somerville (W/S)

FY 2019 MWRA Assessments

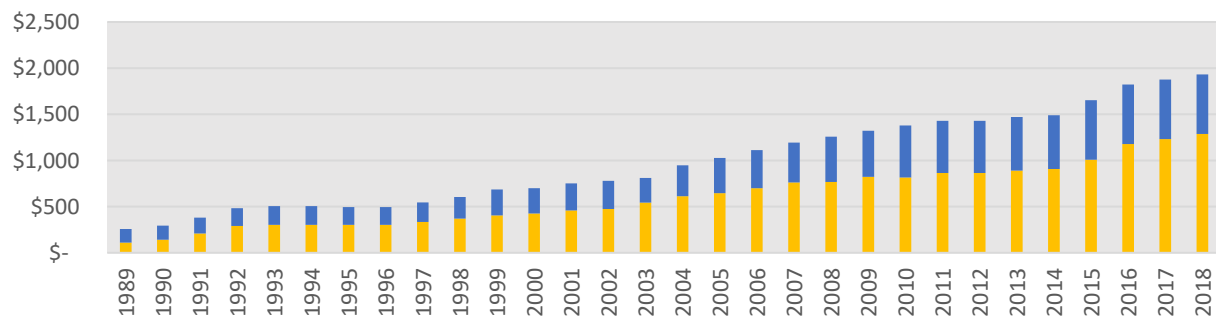
	FY18	FY19	% Change
Water	\$7,928,695	\$8,055,307	1.60%
Sewer	\$16,508,256	\$17,094,747	3.60%
Combined	\$24,436,951	\$25,150,054	2.90%



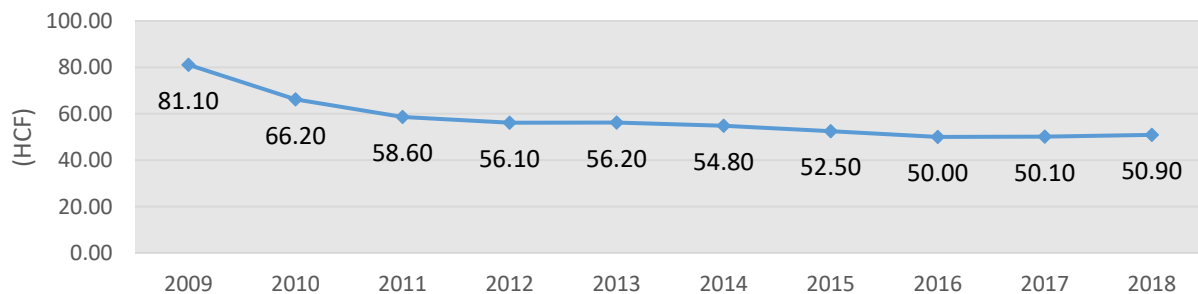
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 sewered.	
Billing Frequency:	N/A

Annual Cost AWWA Standard for Historical Comparison

(120 HCF \approx 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$530.40	0.00%
Sewer	\$0.00	0.00%
Combined	\$530.40	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$304.79
Sewer	\$0.00
Combined	\$304.79

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

N/A

Additional 2018 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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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	

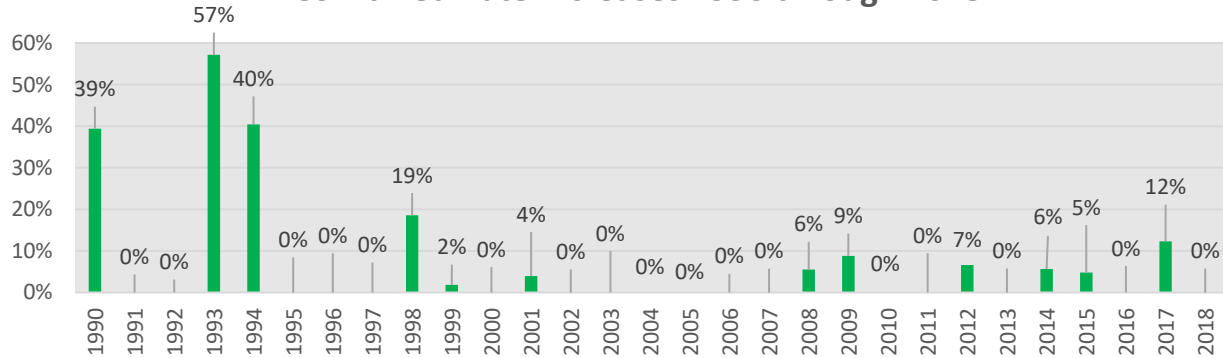
South Hadley (partial W)

FY 2019 MWRA Assessments

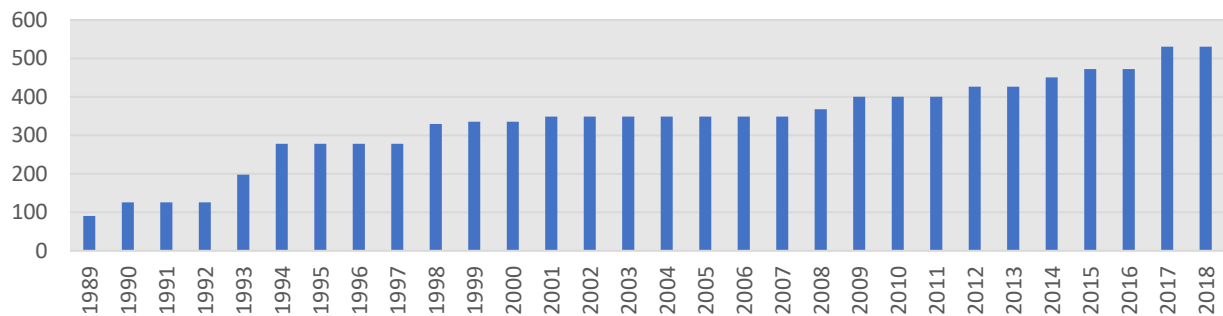
	FY18	FY19	% Change
Water	\$721, 256	\$750,359	-1.50%
Sewer	N/A	N/A	N/A
Combined	\$721, 256	\$750,359	-1.50%



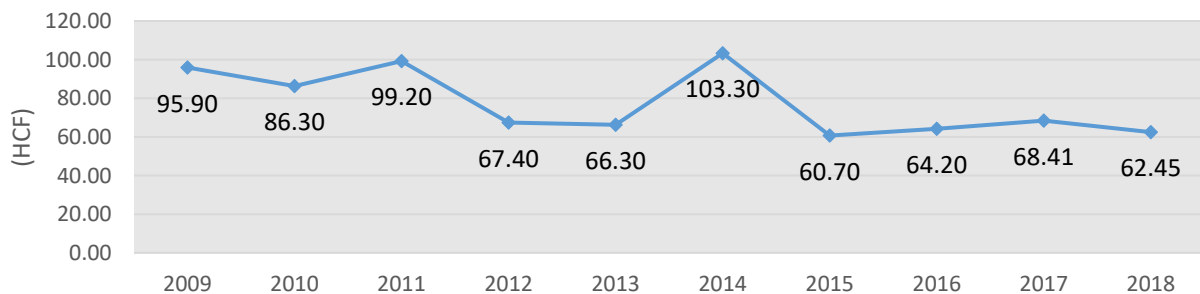
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Southborough (W)

Residential Water Rates:

Last adjusted:	September 2016
Next adjustment scheduled:	Unknown
Fund:	Special Revenue
Minimum charge ($\frac{5}{8}$ " 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 \approx 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$437.08	0.00%
Sewer	\$0.00	0.00%
Combined	\$437.08	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$312.14
Sewer	\$0.00
Combined	\$312.14

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

N/A

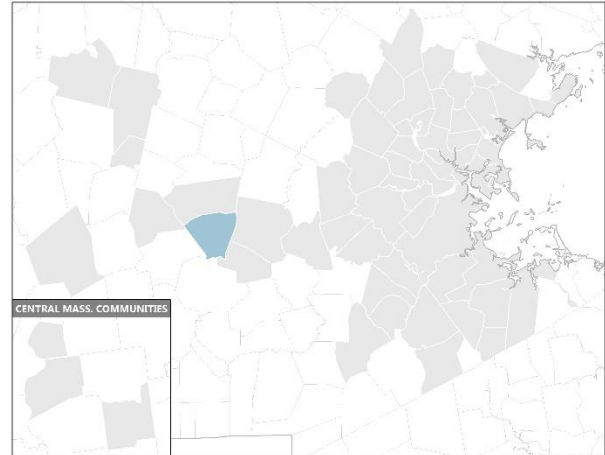
Additional 2018 Data by Community

Does this Community Use Second Meters?	No	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	N/A
Miles of water pipeline replaced/rehabilitated in FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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)	

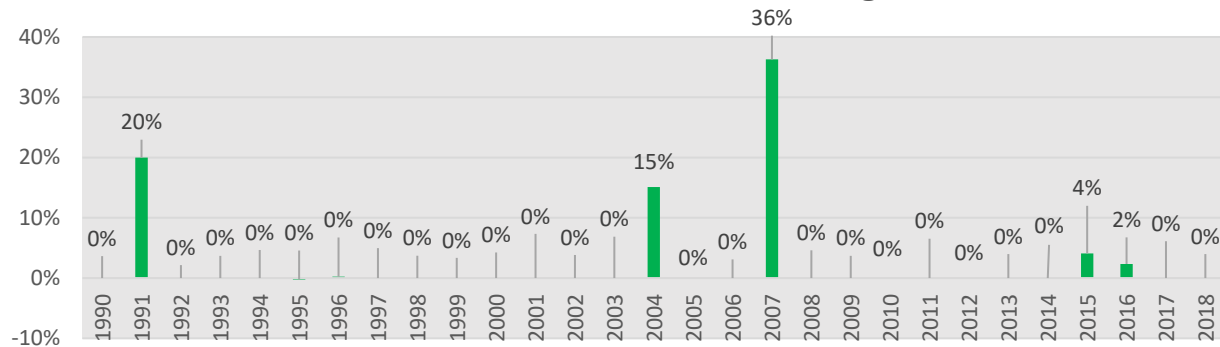
Southborough (W)

FY 2019 MWRA Assessments

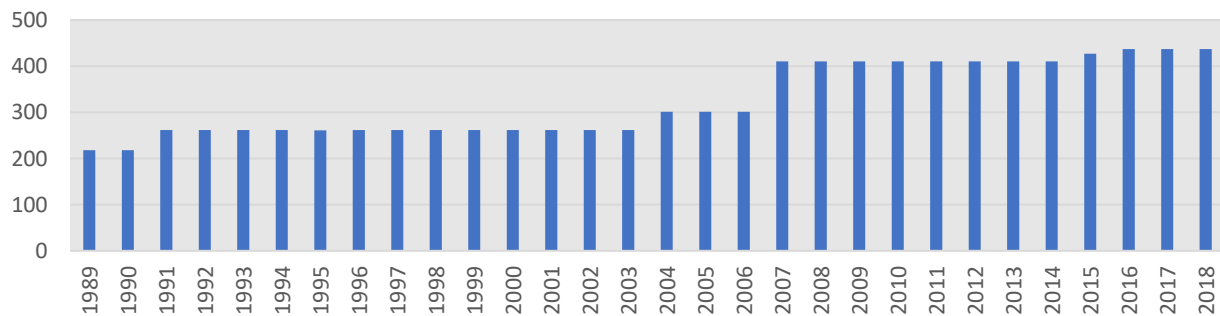
	FY18	FY19	% Change
Water	\$997,207	\$866,571	-13.10%
Sewer	N/A	N/A	N/A
Combined	\$997,207	\$866,571	-13.10%



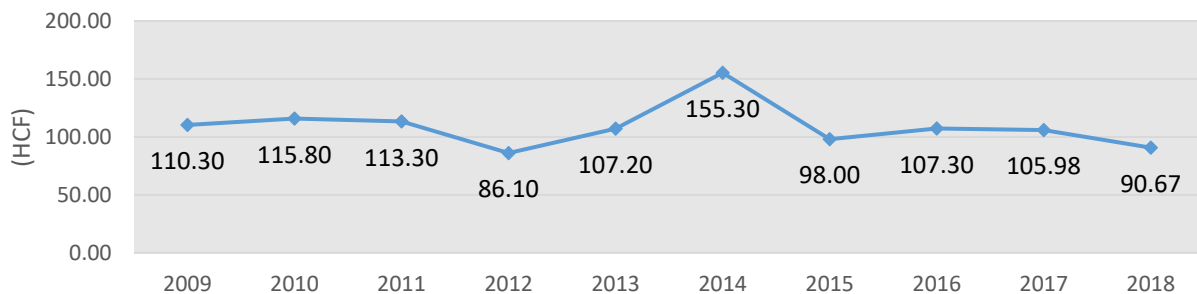
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Stoneham (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$ 6.29/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$ 9.34/HCF

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$754.80	11.33%
Sewer	\$1,120.80	4.36%
Combined	\$1,875.60	7.05%

Annual Cost Based on Local, State & Federal Data

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

Water	\$558.55
Sewer	\$829.39
Combined	\$1,387.94

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	50 – 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Rate	

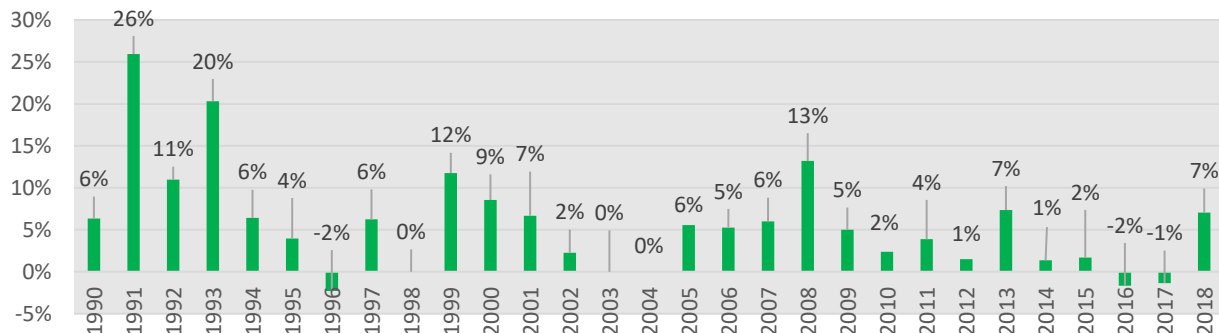
Stoneham (W/S)

FY 2019 MWRA Assessments

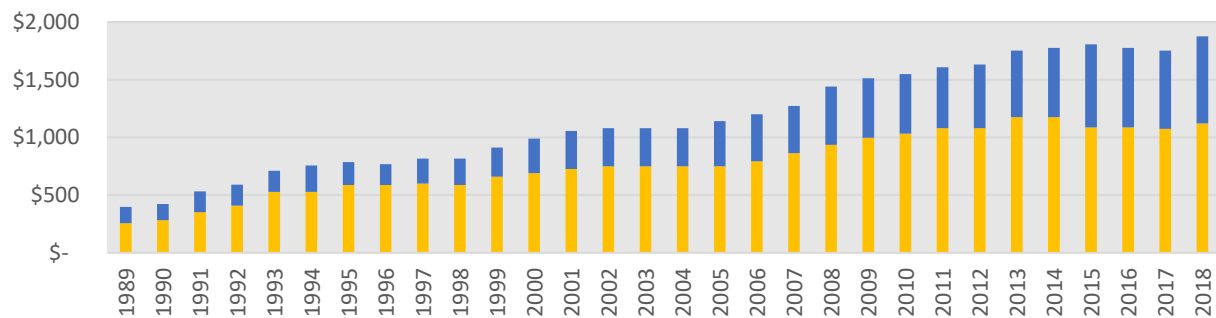
	FY18	FY19	% Change
Water	\$3,027,480	\$3,105,480	2.60%
Sewer	\$4,600,334	\$4,616,825	0.40%
Combined	\$7,627,814	\$7,722,633	1.20%



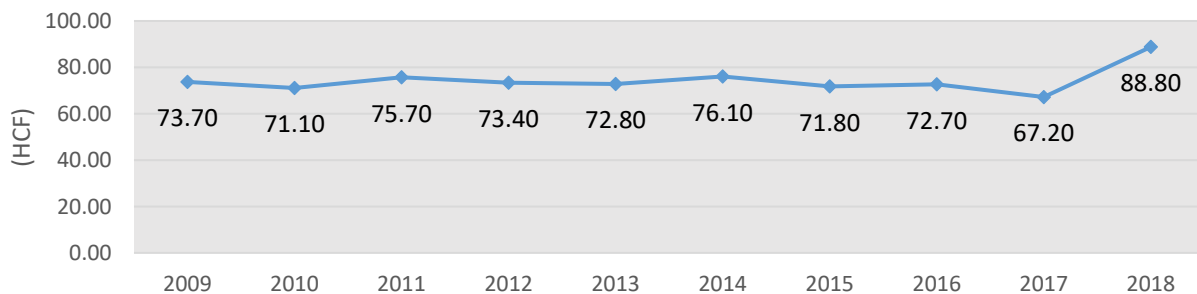
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Stoughton (S/ partial W)

Residential Water Rates:

Last adjusted:	July 2018
Next adjustment scheduled:	July 2019
Fund:	Enterprise
Service Charge (5/8" meter)	\$12.99/bill
0 – 26 HCF	\$ 4.18/HCF
>26 – 59 HCF	\$ 6.16 "
>59 HCF	\$ 8.53 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted:	July 2018
Next adjustment scheduled:	July 2019
Fund:	Enterprise
Minimum charge (7.8 HCF)	\$77.42
All units	\$ 9.94/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 2017
Water	\$585.24	1.46%
Sewer	\$1,192.80	1.53%
Combined	\$1,778.04	1.51%

Annual Cost Based on Local, State & Federal Data

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

Water	\$326.16
Sewer	\$652.03
Combined	\$978.19

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
Water System		Sewer System	
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 FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
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.

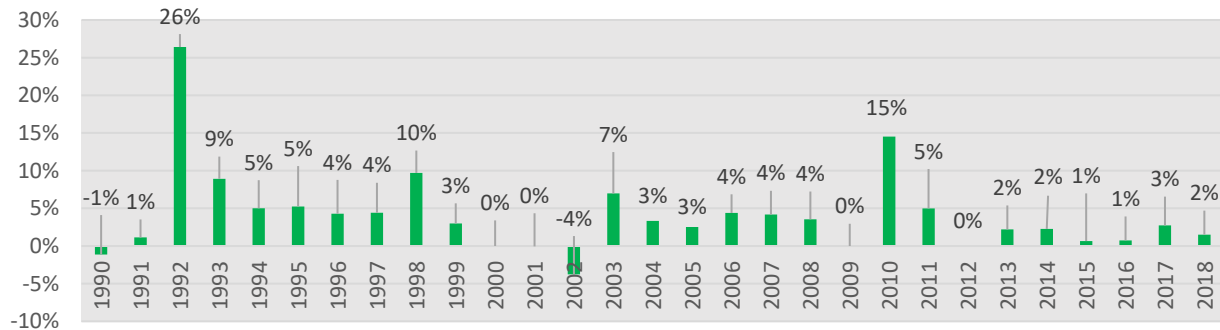
Stoughton (S/ partial W)

FY 2019 MWRA Assessments

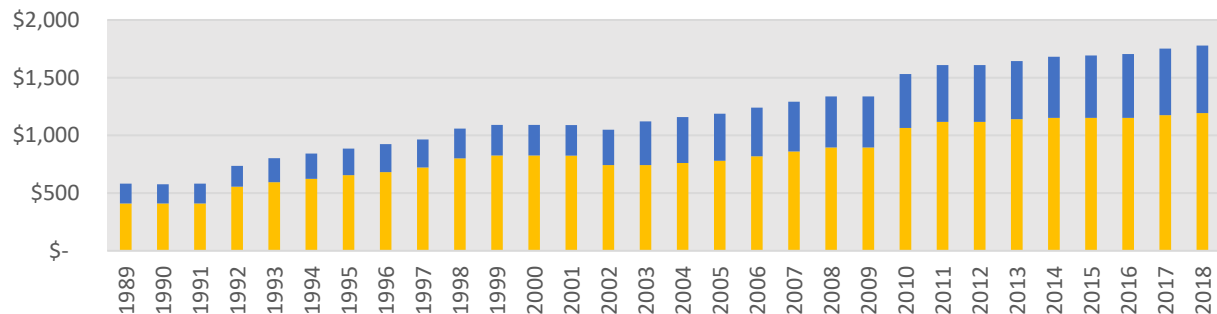
	FY18	FY19	% Change
Water	\$253,810	\$161,431	-36.40%
Sewer	\$5,031,822	\$5,072,227	0.80%
Combined	\$5,285,632	\$5,233,658	-1.00%



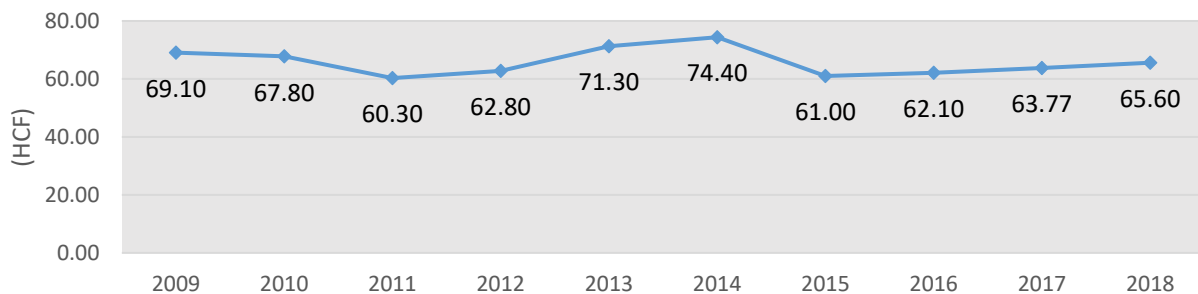
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Swampscott (W)

Residential Water Rates:

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

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

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/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 2017
Water	\$848.00	0.00%
Sewer	\$659.00	0.00%
Combined	\$1,507.00	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$635.07
Sewer	\$493.74
Combined	\$1,128.82

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	Over 75%	MWRA Charges as % of Total Community Sewer Expenses	N/A
Miles of water pipeline replaced/rehabilitated in FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Rate	

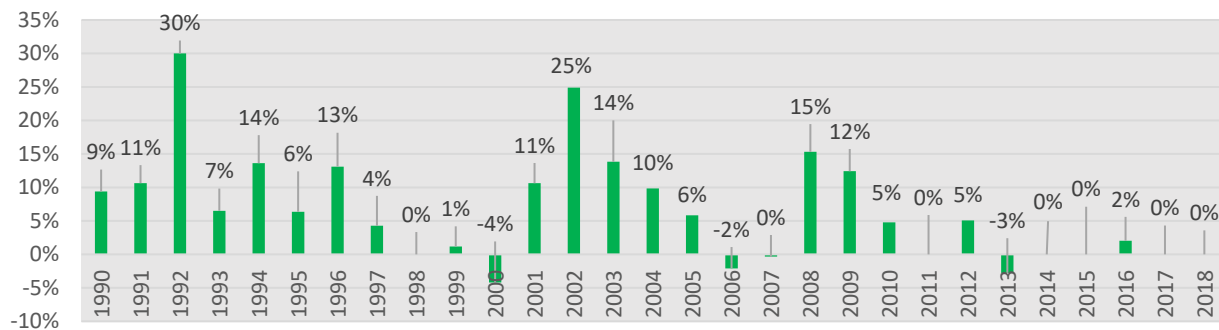
Swampscott (W)

FY 2019 MWRA Assessments

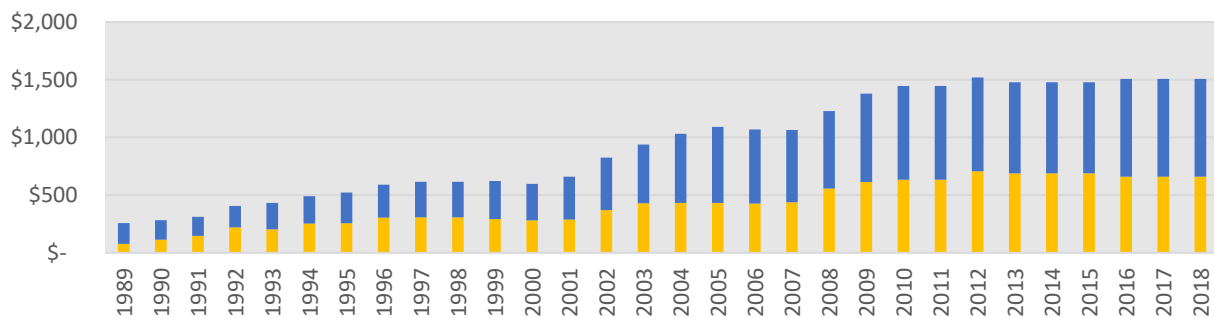
	FY18	FY19	% Change
Water	\$1,892,557	\$2,021,785	6.80%
Sewer	N/A	N/A	N/A
Combined	\$1,892,557	\$2,021,785	6.80%



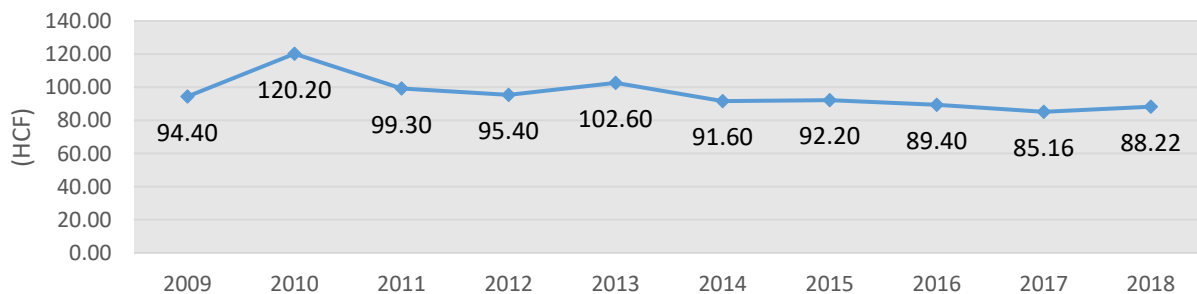
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Wakefield (S/ partial W)

Residential Water Rates:

Last adjusted: June 2018
 Next adjustment scheduled: June 2019
 Fund: Enterprise

All units \$ 7.20/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: June 2018
 Next adjustment scheduled: June 2019
 Fund: Enterprise

All units \$ 11.35/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 2017
Water	\$777.60	3.60%
Sewer	\$1,225.80	4.13%
Combined	\$2,003.40	3.92%

Annual Cost Based on Local, State & Federal Data

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

Water	\$514.78
Sewer	\$811.49
Combined	\$1,326.28

- 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 \$864.00 for water and \$1,362.00 for sewer.

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

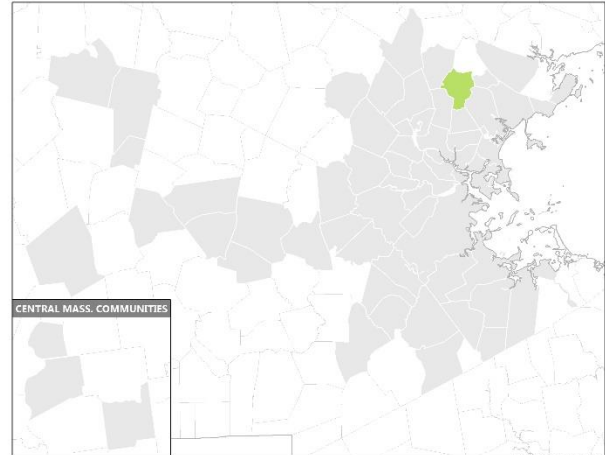
Does this Community Use Second Meters?	Yes, grandfathered only	Does this Community Offer Senior and/or Low Income Discounts?	No
Water System		Sewer System	
MWRA Charges as % of Total Community Water Expenses	25-50%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
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.

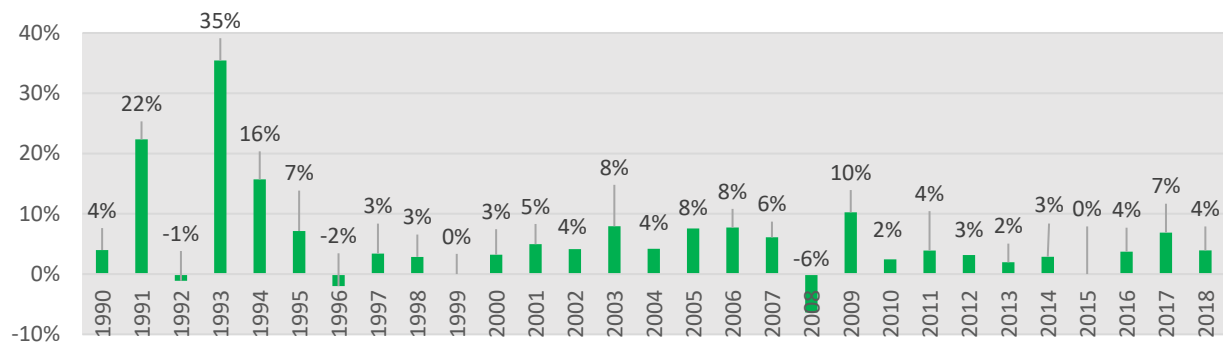
Wakefield (S/ partial W)

FY 2019 MWRA Assessments

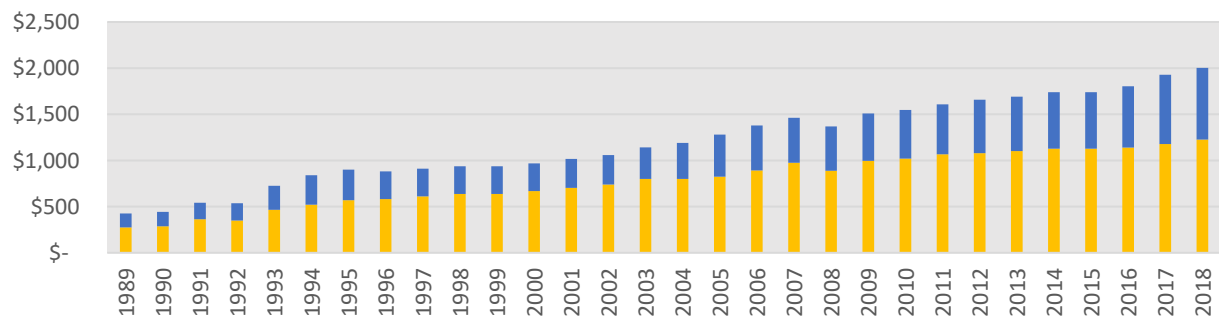
	FY18	FY19	% Change
Water	\$2,169,915	\$2,133,553	-1.70%
Sewer	\$6,075,836	\$6,290,285	3.50%
Combined	\$8,245,751	\$8,423,838	2.20%



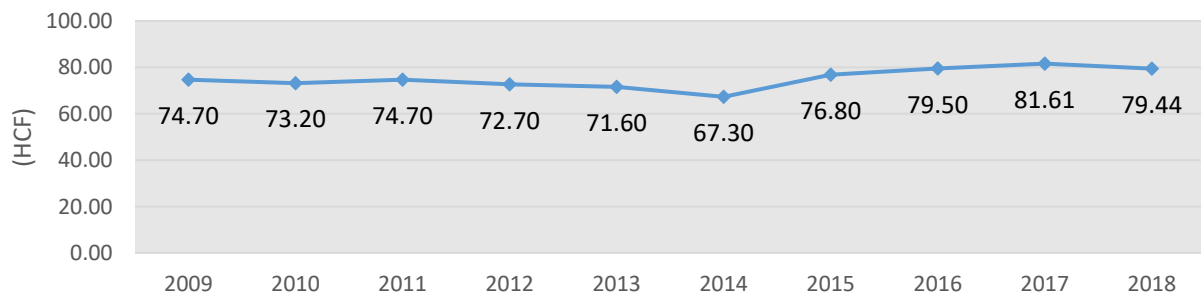
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Walpole (S)

Residential Water Rates:

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

0 – 10 HCF \$ 4.848/HCF
 >10 – 16 HCF \$ 6.242 "
 >16 – 25 HCF \$ 8.323 "
 >25 HCF \$10.404 "

Billing Frequency: Bi-Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$ 9.039/HCF

Based on 80% of water usage.

Billing Frequency: Bi-Monthly

Annual Cost AWWA Standard for Historical Comparison

(120 HCF ≈ 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$715.34	1.85%
Sewer	\$867.74	3.17%
Combined	\$1,583.09	2.57%

Annual Cost Based on Local, State & Federal Data

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

Water	\$438.17
Sewer	\$604.51
Combined	\$1,042.68

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

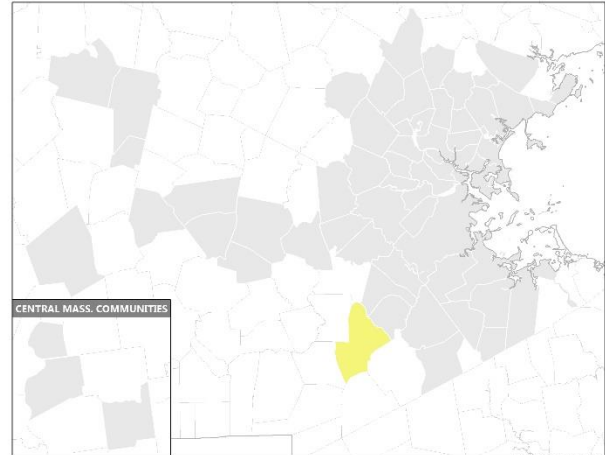
Additional 2018 Data by Community

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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

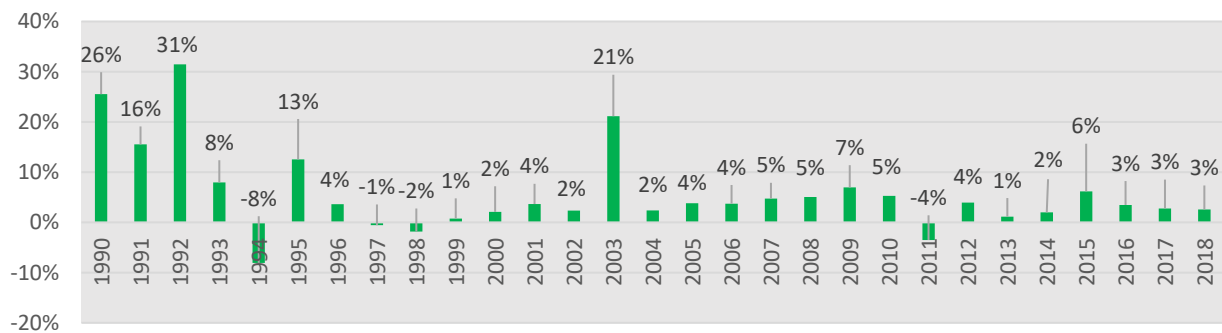
Walpole (S)

FY 2019 MWRA Assessments

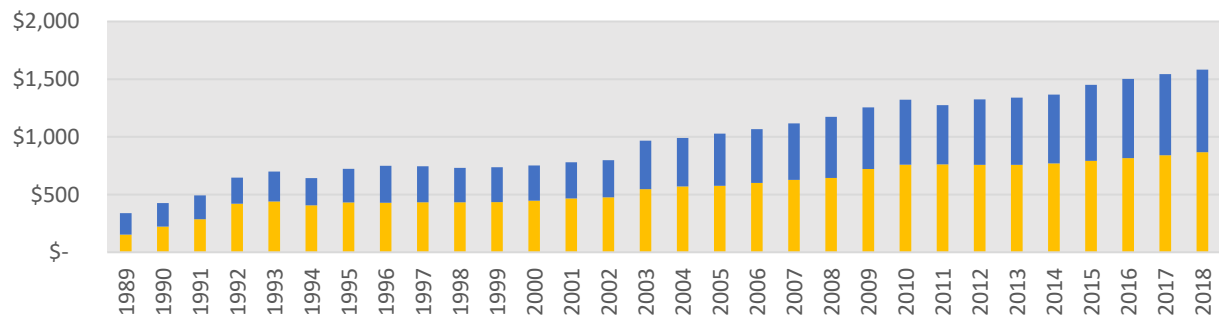
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$3,821,880	\$3,988,527	4.40%
Combined	\$3,821,880	\$3,988,527	4.40%



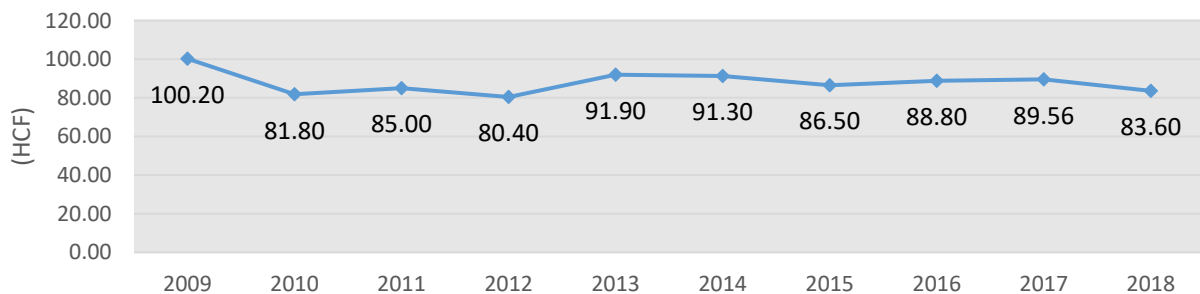
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Waltham (W/S)

Residential Water Rates:

Last adjusted: January 2017
 Next adjustment scheduled: Unknown
 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: Unknown
 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 2017
Water	\$407.28	0.00%
Sewer	\$715.32	0.00%
Combined	\$1,122.60	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$174.33
Sewer	\$310.04
Combined	\$484.36

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

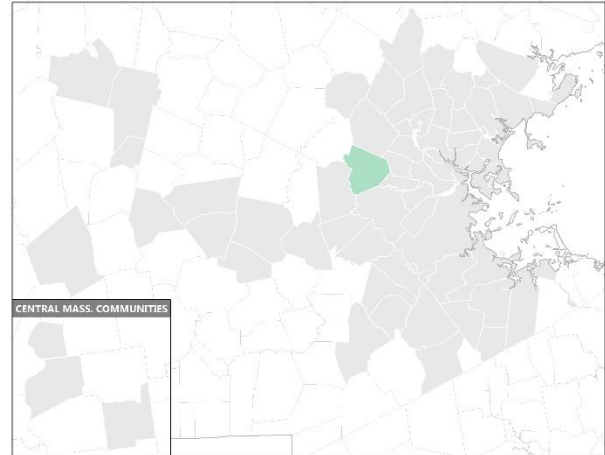
Additional 2018 Data by Community

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 FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		General Obligation Bonds	

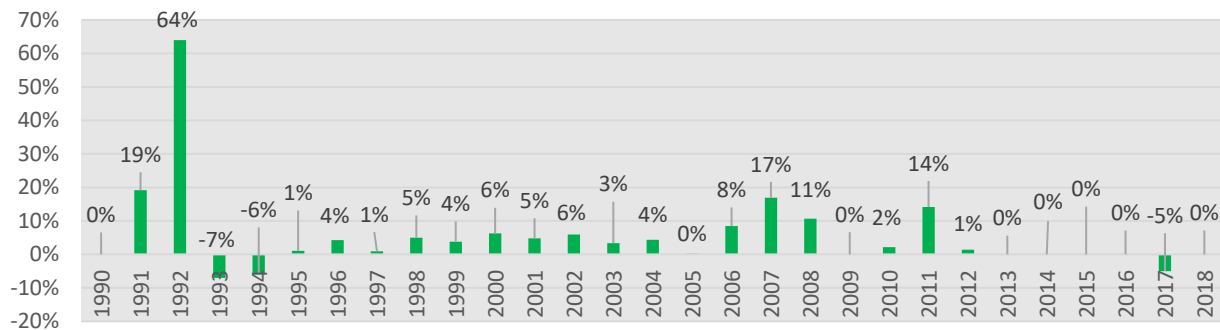
Waltham (W/S)

FY 2019 MWRA Assessments

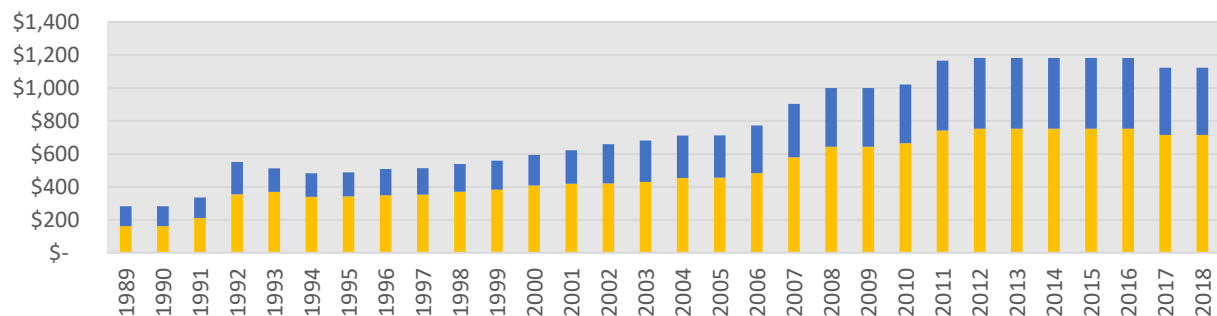
	FY18	FY19	% Change
Water	\$9,038,537	\$9,311,252	3.00%
Sewer	\$13,521,664	\$13,800,824	2.10%
Combined	\$22,560,201	\$23,112,076	2.40%



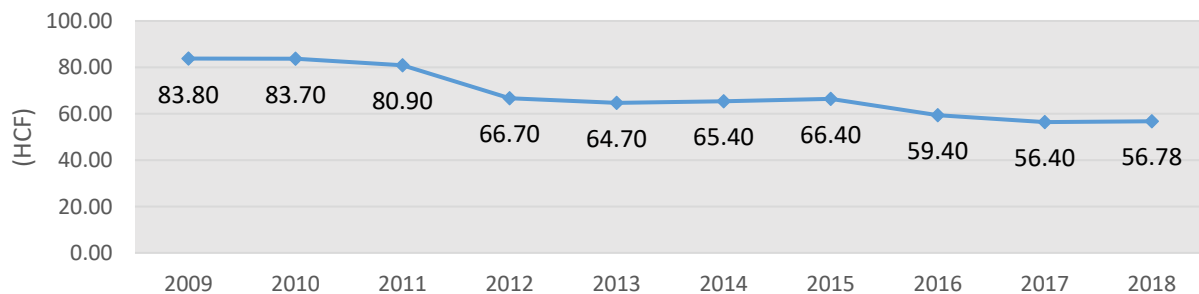
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Watertown (W/S)

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge (5/8") \$ 6.97/bill
 0 – 30 HCF \$ 4.55/HCF
 >30 – 300 HCF \$ 7.06 "
 >300 HCF \$11.15 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

0 – 30 HCF \$ 8.53/HCF
 >30 – 300 HCF \$11.02 "
 >300 HCF \$14.76 "

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 2017
Water	\$546.00	1.56%
Sewer	\$1,023.60	3.02%
Combined	\$1,569.60	2.51%

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

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

Water	\$282.33
Sewer	\$529.29
Combined	\$811.62

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 Data by Community

Does this Community Use Second Meters?	Yes	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
Water System		Sewer System	
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 FY18	No Response	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Water/Sewer Rates	

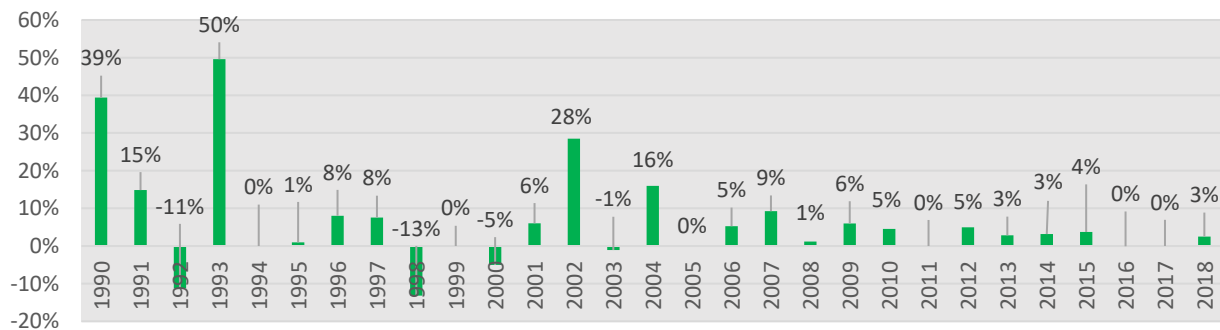
Watertown (W/S)

FY 2019 MWRA Assessments

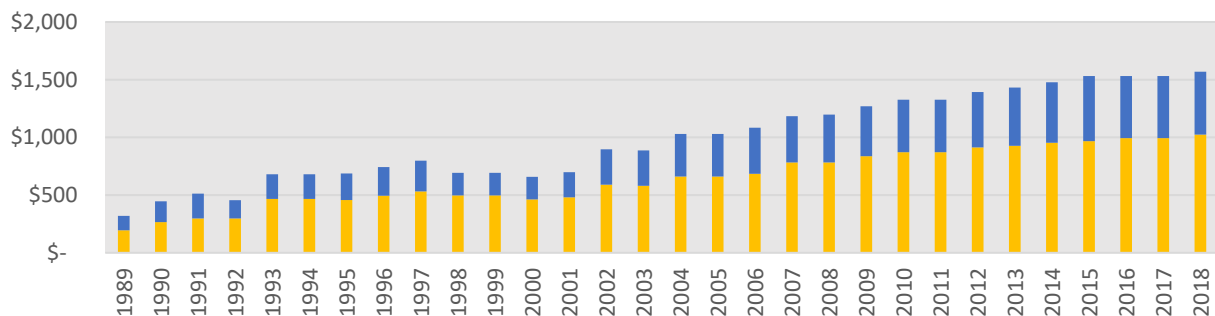
	FY18	FY19	% Change
Water	\$3,388,389	\$3,696,371	9.10%
Sewer	\$6,103,914	\$6,357,733	4.20%
Combined	\$9,492,303	\$10,054,104	5.90%



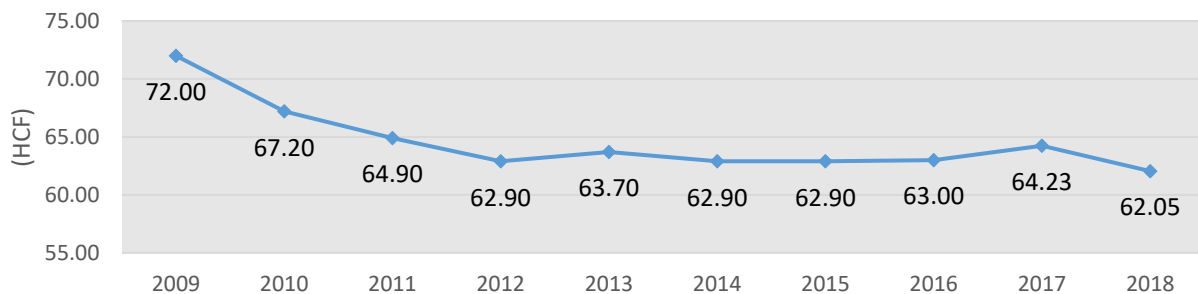
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Base charge \$1.50/bill
 All units \$9.04/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 2017
Water	\$471.96	0.00%
Sewer	\$1,102.80	4.91%
Combined	\$1,574.76	3.39%

Annual Cost Based on Local, State & Federal Data

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

Water	\$371.57
Sewer	\$844.26
Combined	\$1,215.83

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 2018 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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

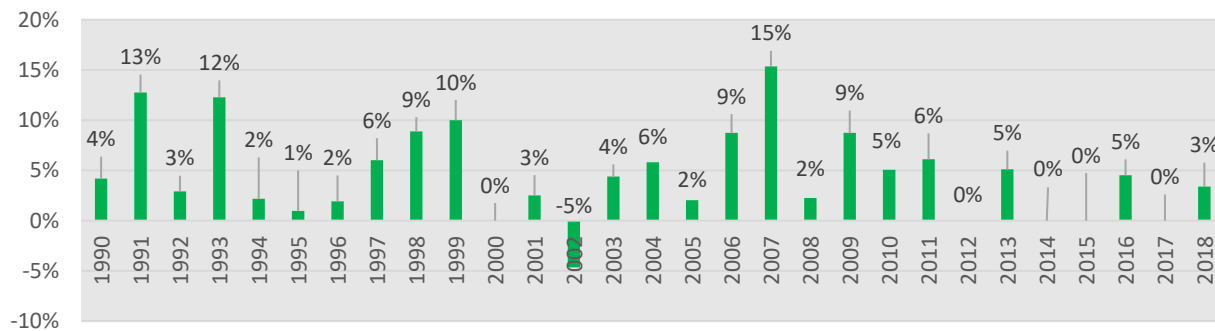
Wellesley (S/ partial W)

FY 2019 MWRA Assessments

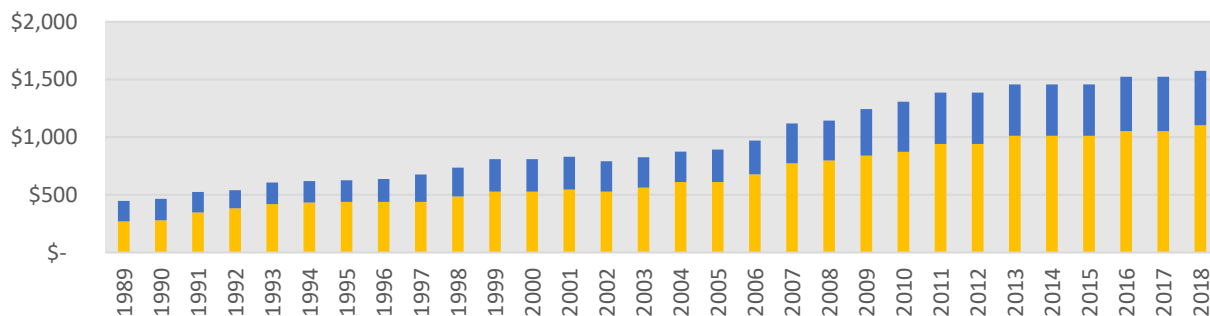
	FY18	FY19	% Change
Water	\$1,742,278	\$1,485,700	-14.70%
Sewer	\$5,601,602	\$5,745,909	2.60%
Combined	\$7,343,880	\$7,232,609	-1.50%



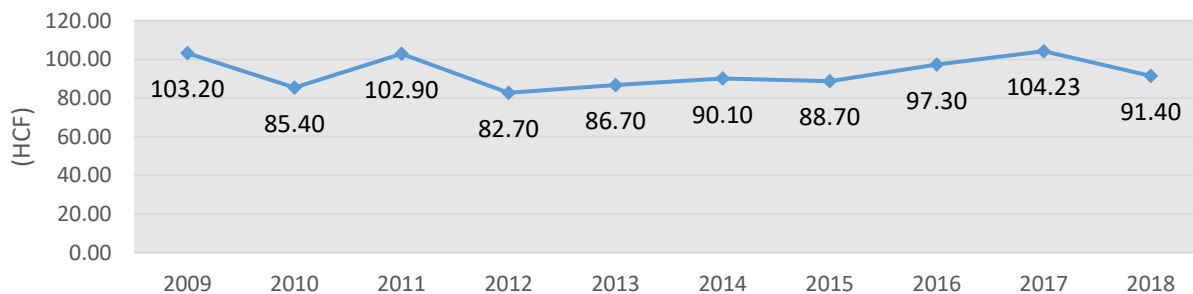
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Weston (W)

Residential Water Rates:

Last adjusted:	January 2018
Next adjustment scheduled:	January 2019
Fund:	Enterprise
Base charge (5/8" meter)	\$21.00/bill
1 – 50 HCF	\$ 1.73/HCF
>50 – 150 HCF	\$ 5.08 "
>150 HCF	\$ 9.84 "
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 2017
Water	\$316.60	18.49%
Sewer	\$0.00	0.00%
Combined	\$316.60	18.49%

Annual Cost Based on Local, State & Federal Data

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

Water	\$490.07
Sewer	\$0.00
Combined	\$490.07

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

N/A

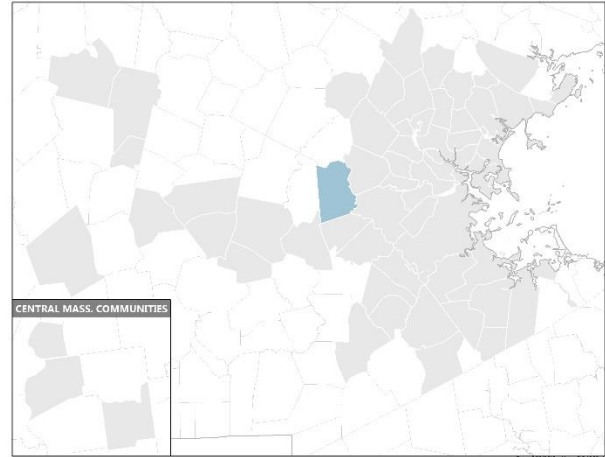
Additional 2018 Data by Community

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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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)	

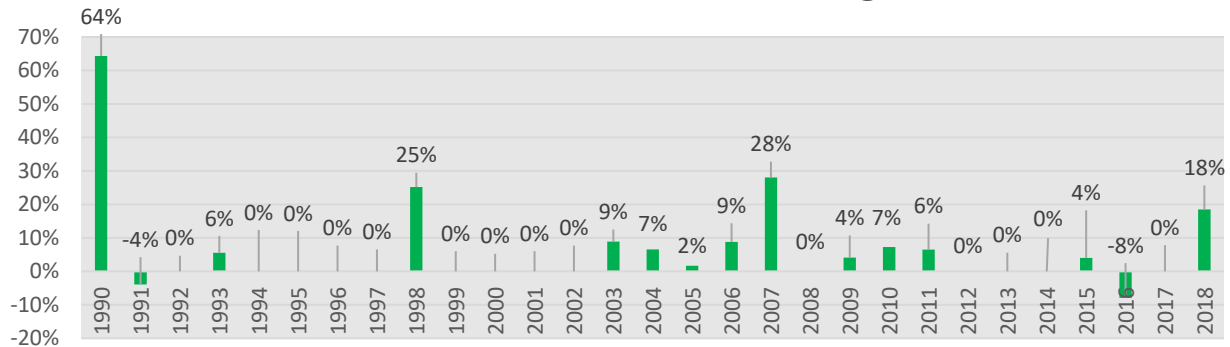
Weston (W)

FY 2019 MWRA Assessments

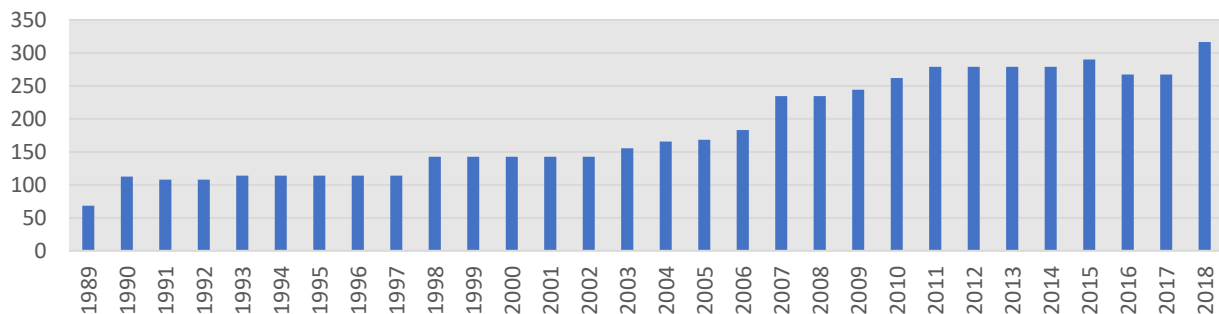
	FY18	FY19	% Change
Water	\$2,818,905	\$2,493,163	-11.60%
Sewer	N/A	N/A	N/A
Combined	\$2,818,905	\$2,493,163	-11.60%



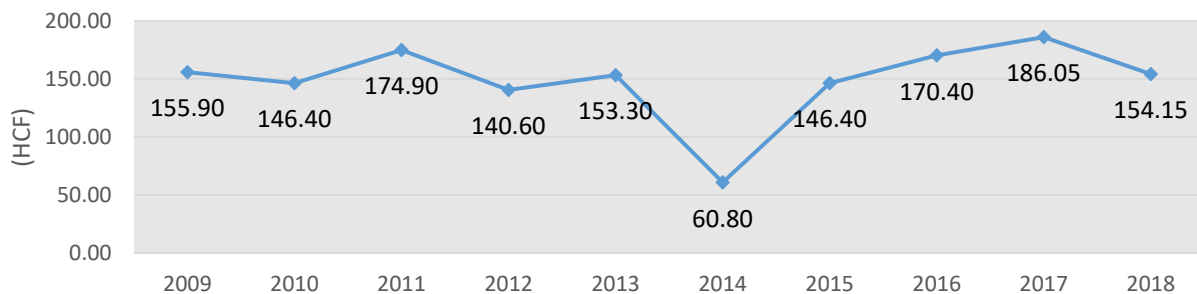
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Westwood (S/ partial W)

Residential Water Rates:

Last adjusted: Dec. 2015
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Minimum charge per bill includes first 3 HCF (5/8" meter) \$12.57
 >3 – 14 HCF \$ 4.43/HCF
 >14 – 23 HCF \$ 7.19 "
 >23 HCF \$ 9.31 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge (5/8" meter) \$15.00/quarter
 0 – 25 HCF \$ 5.95/HCF
 >25 – 70 HCF \$ 8.85 "
 >70 HCF \$15.85 "

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 2017
Water	\$629.28	0.00%
Sewer	\$832.00	2.34%
Combined	\$1,461.28	1.32%

Annual Cost Based on Local, State & Federal Data

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

Water	\$331.13
Sewer	\$516.34
Combined	\$847.47

Commercial Water Rates:

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

Commercial Sewer Rates:

Same as residential

Additional 2018 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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY18	1-3 miles	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

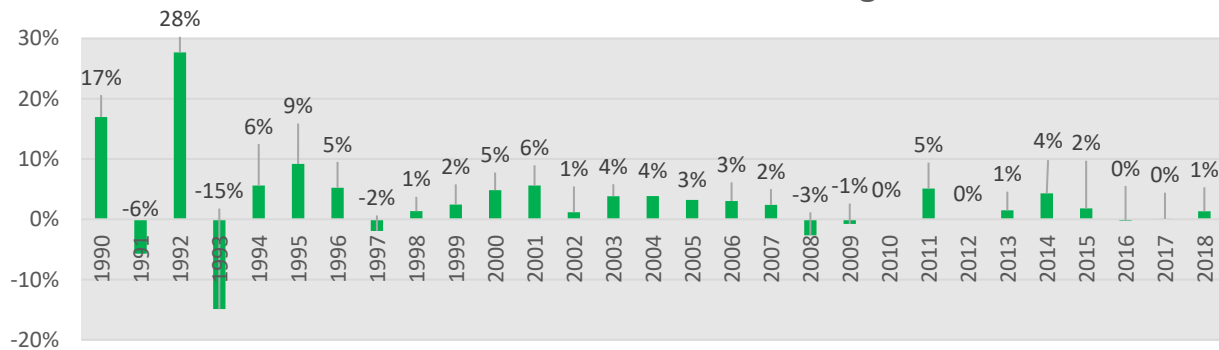
Westwood (S/ partial W)

FY 2019 MWRA Assessments

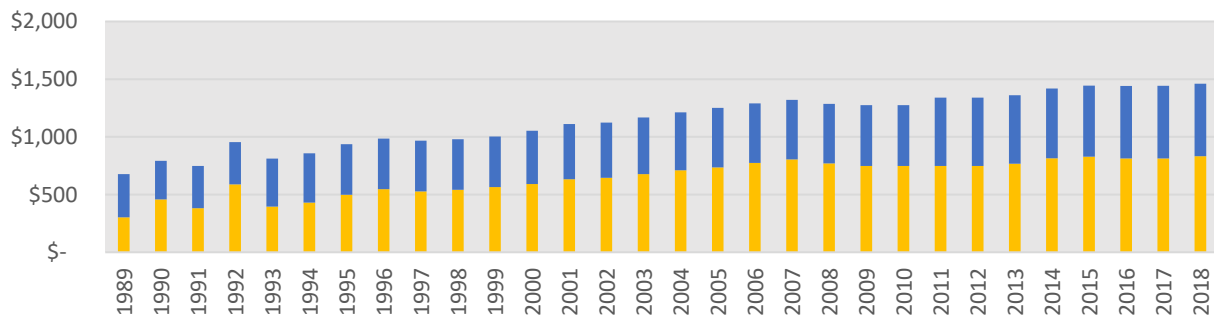
	FY18	FY19	% Change
Water	\$295,794	\$154,204	-47.90%
Sewer	\$2,777,442	\$2,988,061	7.60%
Combined	\$3,073,236	\$3,142,265	2.00%



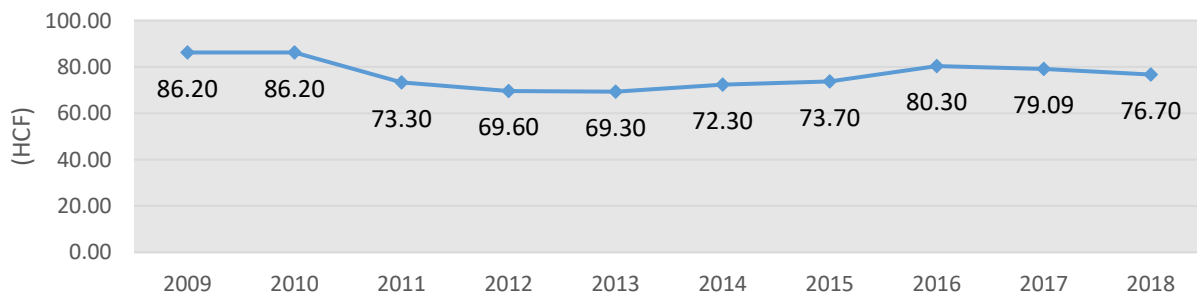
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Weymouth (S)

Residential Water Rates:

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

Base charge (5/8" meter) \$12.40/bill
 0 – 27 HCF \$ 4.38/HCF
 >27 HCF \$ 7.43 "

Billing Frequency: Quarterly

Residential Sewer Rates:

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

Base charge (5/8" meter) \$ 6.40/bill
 0 – 27 HCF \$ 8.22/HCF
 >27 HCF \$13.96 "

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 2017
Water	\$611.80	0.66%
Sewer	\$1,080.88	4.24%
Combined	\$1,692.68	2.92%

Annual Cost Based on Local, State & Federal Data

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

Water	\$292.98
Sewer	\$465.72
Combined	\$758.70

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

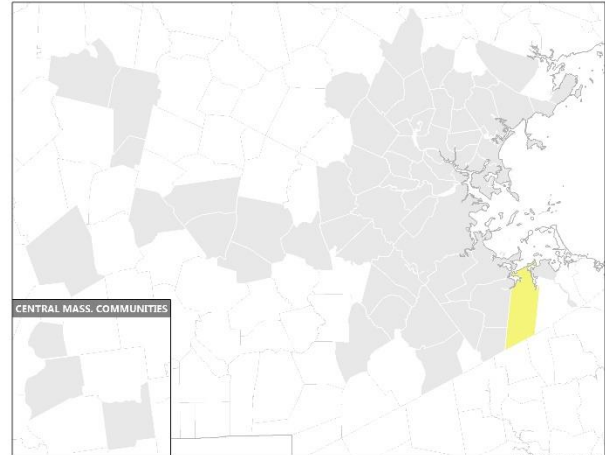
Additional 2018 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
Water System		Sewer System	
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 FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

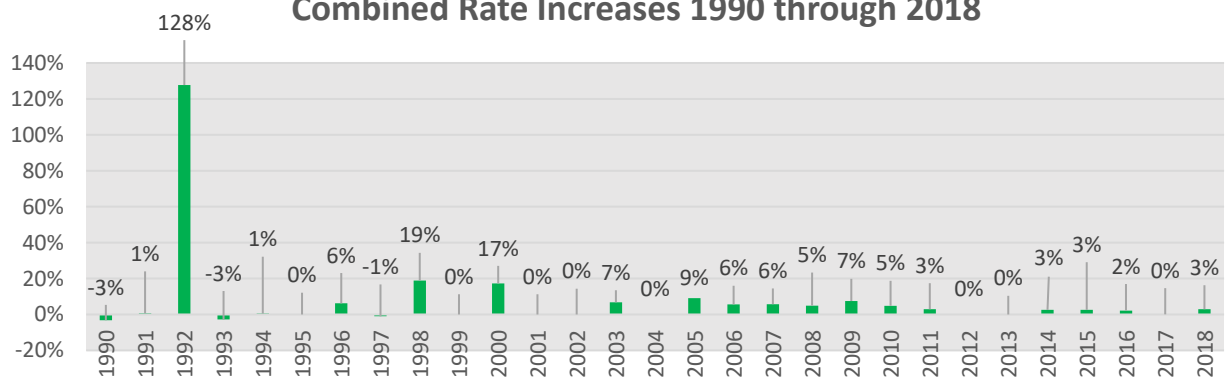
Weymouth (S)

FY 2019 MWRA Assessments

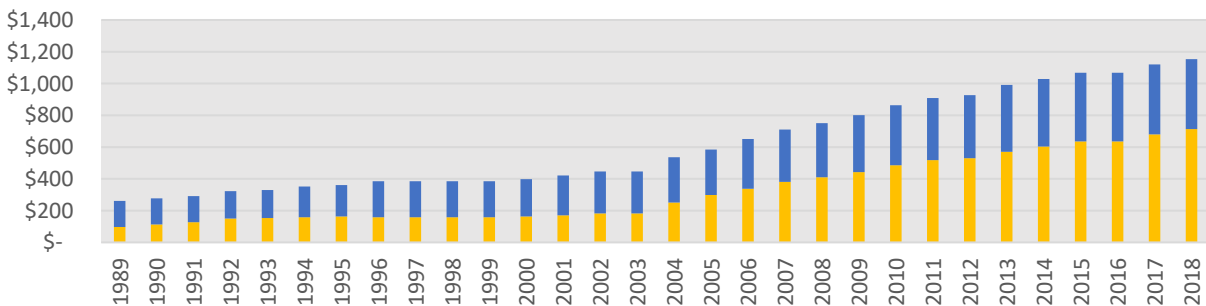
	FY18	FY19	% Change
Water	N/A	N/A	N/A
Sewer	\$12,036,129	\$12,584,755	4.60%
Combined	\$12,036,129	\$12,584,755	4.60%



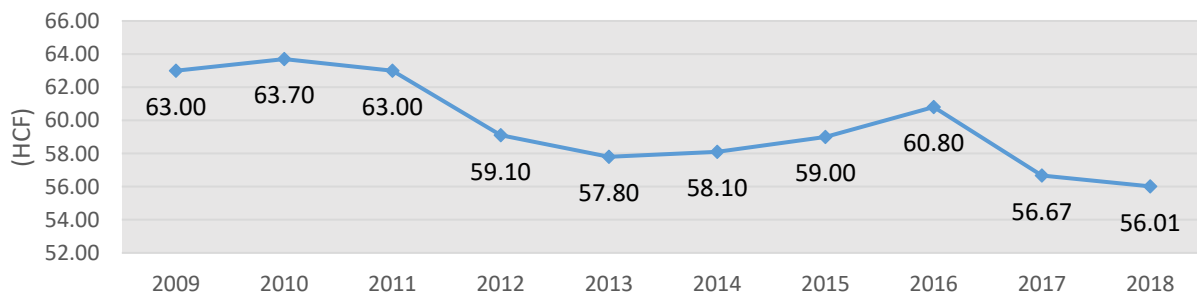
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2013
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Minimum bill \$52.50
 All units \$ 4.10/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 2017
Water	\$494.40	0.00%
Sewer	\$492.00	0.00%
Combined	\$986.40	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$227.42
Sewer	\$226.32
Combined	\$453.74

- 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 2018 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	N/A
Miles of water pipeline replaced/rehabilitated in FY19	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY19	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

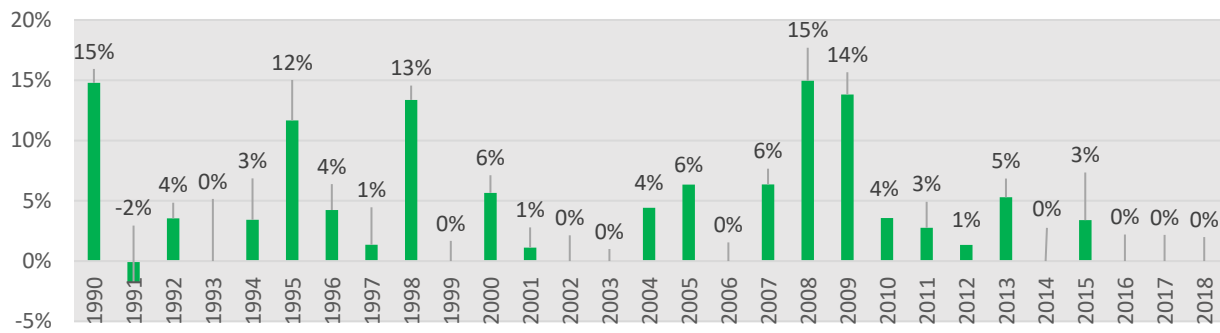
Wilbraham (W)

FY 2019 MWRA Assessments

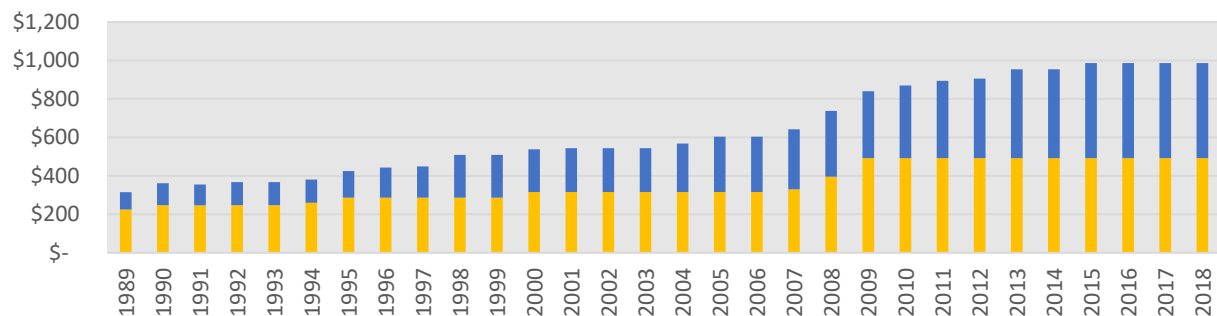
	FY18	FY19	% Change
Water	\$792,374	\$757,295	-4.40%
Sewer	N/A	N/A	N/A
Combined	\$792,374	\$757,295	-4.40%



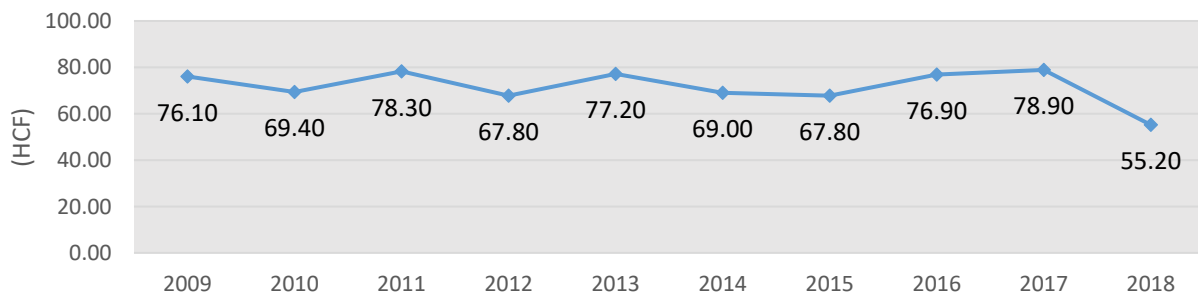
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Wilmington (S/partial W)

Residential Water Rates:

Last adjusted: April 2018
 Next adjustment scheduled: Unknown
 Fund: Special Revenue

0 – 10 HCF \$3.82/HCF
 >10 – 20 HCF \$4.23 "
 >20 – 30 HCF \$5.08 "
 >30 HCF \$6.78 "

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 2017
Water	\$525.20	4.96%
Sewer	\$672.00	0.00%
Combined	\$1,197.20	2.12%

Annual Cost Based on Local, State & Federal Data

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

Water	\$297.21
Sewer	\$415.18
Combined	\$712.39

Commercial Water Rates:

0 – 50 HCF \$4.18/HCF
 >50 – 200 HCF \$4.46 "
 >200 HCF \$4.88 "

Commercial Sewer Rates:

All units \$6.70/HCF

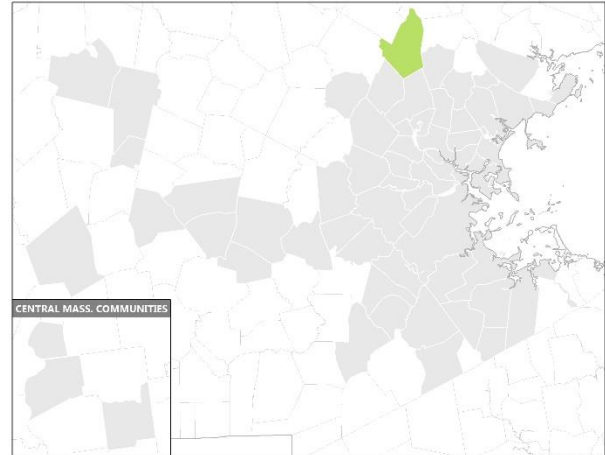
Additional 2018 Data by Community

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	0-25%	MWRA Charges as % of Total Community Sewer Expenses	Over 75%
Miles of water pipeline replaced/rehabilitated in FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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	

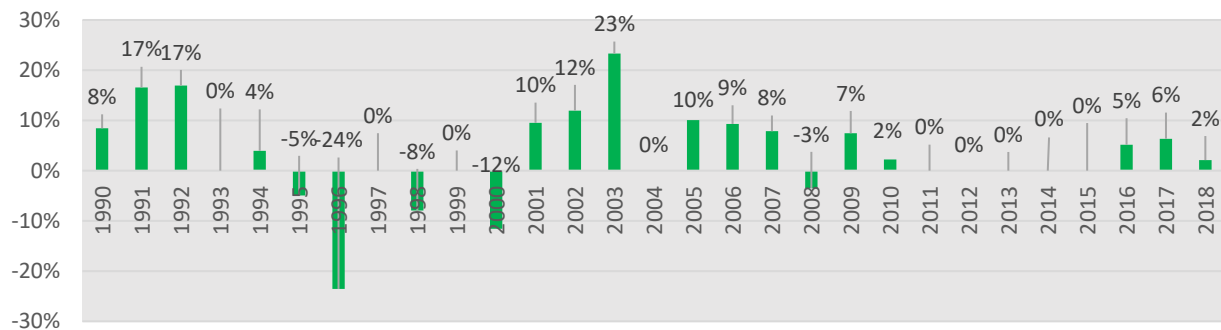
Wilmington (S/partial W)

FY 2019 MWRA Assessments

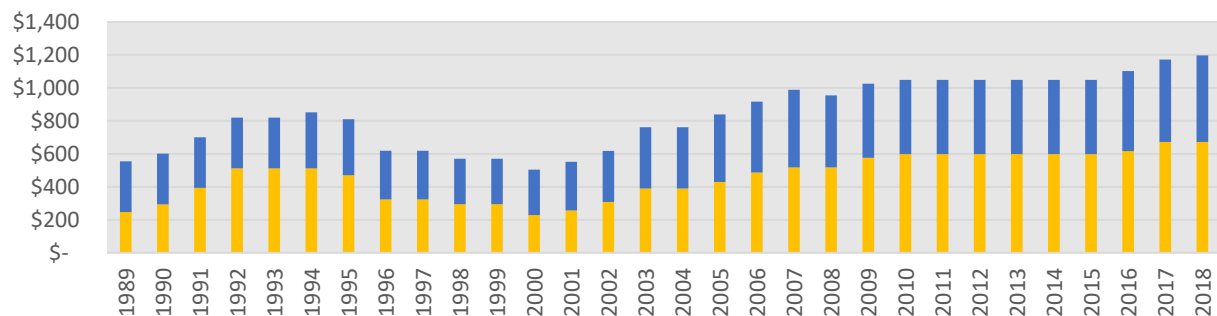
	FY18	FY19	% Change
Water	\$776,226	\$503,145	-35.20%
Sewer	\$2,804,912	\$2,913,415	3.90%
Combined	\$3,581,138	\$3,416,560	-4.60%



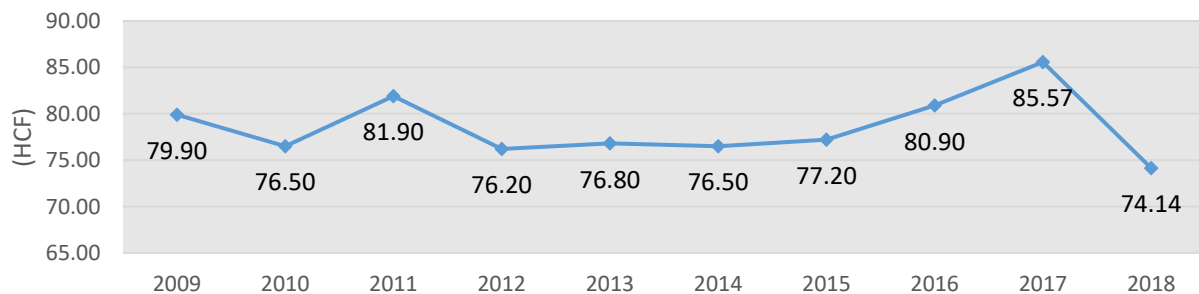
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



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 2017
Water	\$302.60	0.00%
Sewer	\$345.60	0.00%
Combined	\$648.20	0.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$204.32
Sewer	\$217.49
Combined	\$421.81

- ◆ 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 2018 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Low Income
Water System		Sewer System	
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 FY18	Less than 1	Miles of sewer pipeline replaced/rehabilitated in FY18	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:		Water/Sewer Rates	

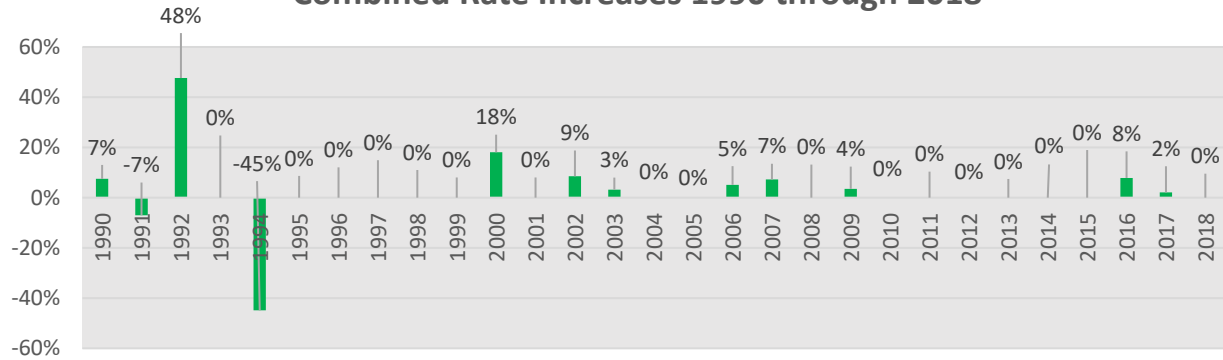
Winchester (S/ partial W)

FY 2019 MWRA Assessments

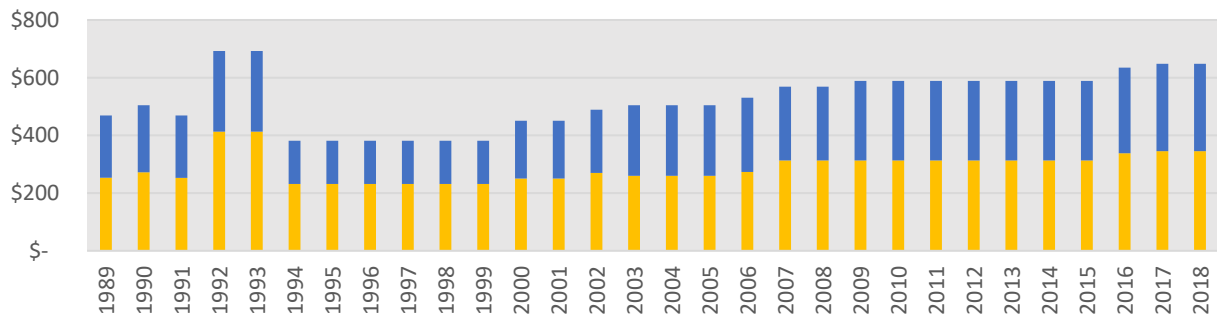
	FY18	FY19	% Change
Water	\$2,121,826	\$1,840,674	-13.30%
Sewer	\$4,144,555	\$4,319,099	4.20%
Combined	\$6,266,381	\$6,159,773	-1.70%



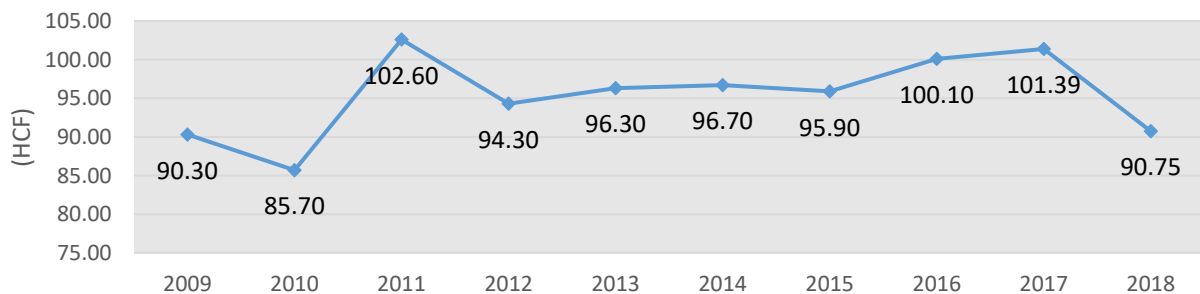
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Winthrop (W/S)

Residential Water Rates:

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

Minimum charge \$20.73/quarter
 All units \$ 6.91/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

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

Minimum charge \$29.97/quarter
 All units \$ 9.99/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 2017
Water	\$829.20	6.31%
Sewer	\$1,198.80	0.91%
Combined	\$2,028.00	3.05%

Annual Cost Based on Local, State & Federal Data

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

Water	\$423.80
Sewer	\$612.69
Combined	\$1,036.49

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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	50-75%	MWRA Charges as % of Total Community Sewer Expenses	50-75%
Miles of water pipeline replaced/rehabilitated in FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

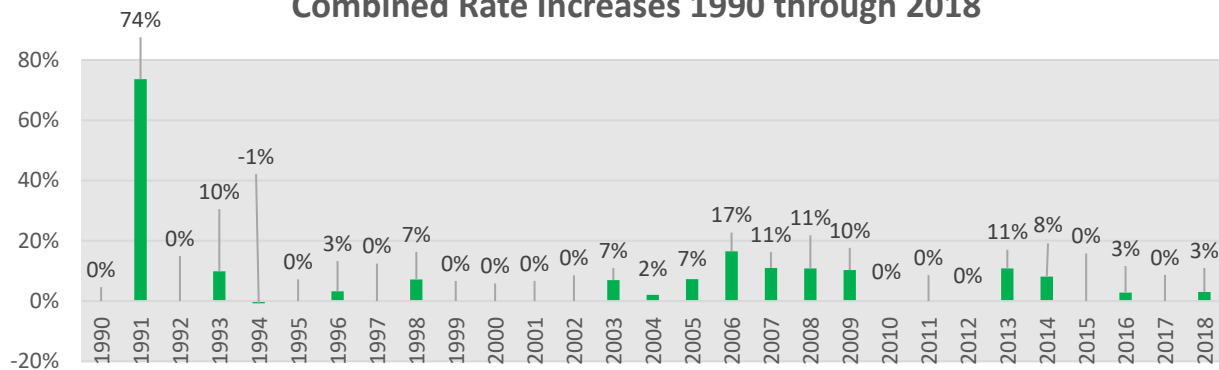
Winthrop (W/S)

FY 2019 MWRA Assessments

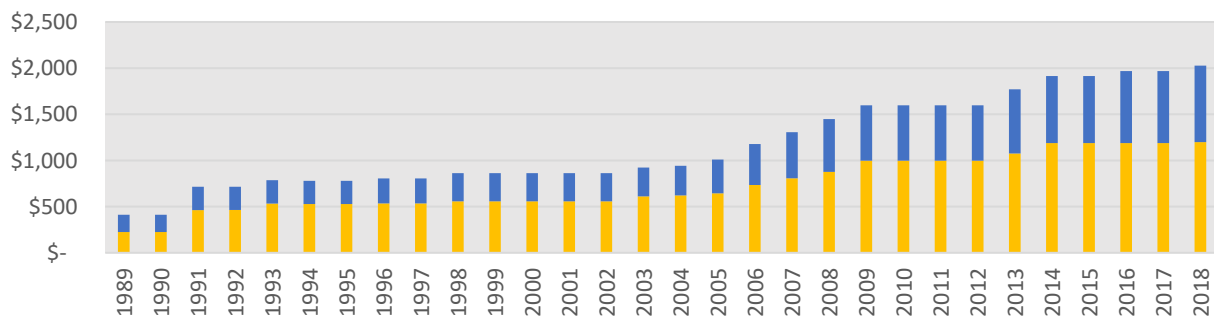
	FY18	FY19	% Change
Water	\$1,615,822	\$1,698,840	5.10%
Sewer	\$3,395,228	\$3,565,533	5.00%
Combined	\$5,011,050	\$5,264,373	5.10%



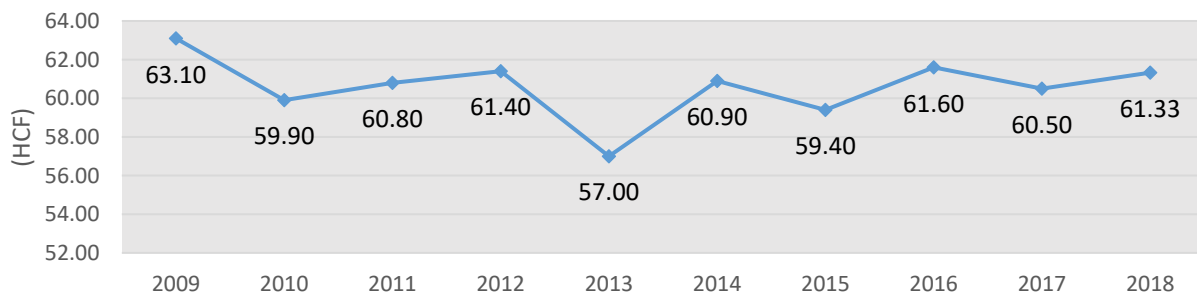
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Woburn (S/ partial W)

Residential Water Rates:

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

Flat rate of \$164.00 per bill

Billing Frequency: Semi-Annually

Residential Sewer Rates:

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

Flat rate of \$128.26 per bill

Billing Frequency: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison

(120 HCF \approx 90,000 gals.)

Utility	Rate	Change from 2017
Water	\$329.78	60.87%
Sewer	\$256.52	-21.79%
Combined	\$586.30	10.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$329.78
Sewer	\$256.52
Combined	\$586.30

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

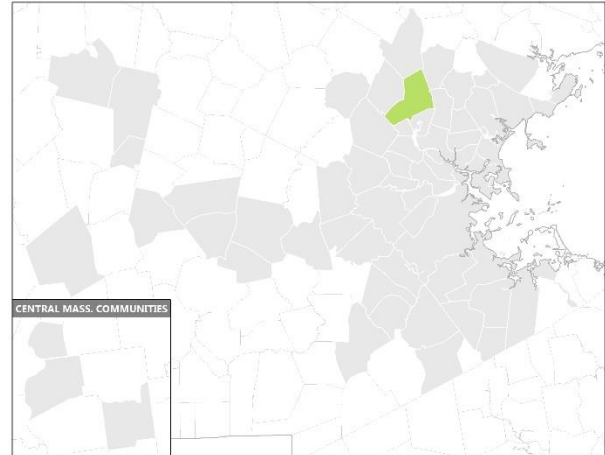
Additional 2018 Data by Community

Does this Community Use Second Meters?	No	Does this Community Offer Senior and/or Low Income Discounts?	Yes, Senior
Water System		Sewer System	
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 FY18	1 – 3	Miles of sewer pipeline replaced/rehabilitated in FY18	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
Stormwater			
Current Funding Source of Stormwater-Related Costs:		Tax Levy (DPW Budget)	

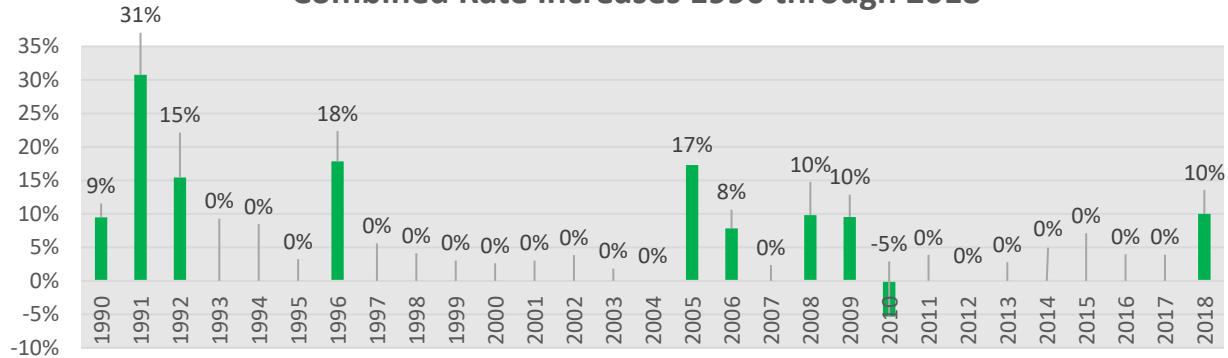
Woburn (S/ partial W)

FY 2019 MWRA Assessments

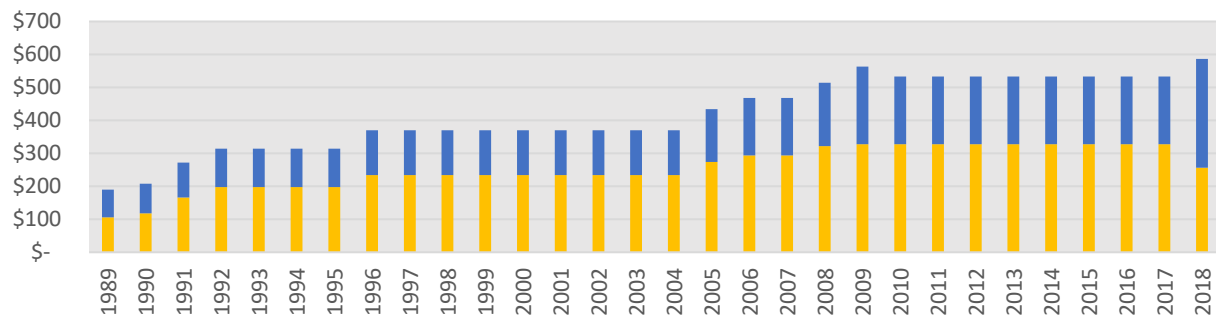
	FY18	FY19	% Change
Water	\$3,636,173	\$3,177,148	-12.60%
Sewer	\$9,449,446	\$9,474,524	0.30%
Combined	\$13,085,619	\$12,651,672	-3.30%



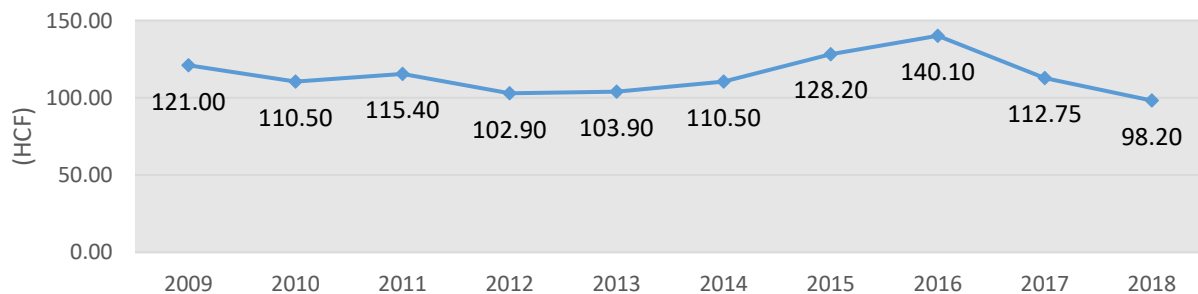
Combined Rate Increases 1990 through 2018



Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



Worcester (partial W)

Residential Water Rates:

Last adjusted: July 2017
 Next adjustment scheduled: July 2019
 Fund: Enterprise

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

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Minimum charge \$10.00/quarter
 All units \$7.43/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 2017
Water	\$440.40	0.00%
Sewer	\$713.28	4.94%
Combined	\$1,153.68	3.00%

Annual Cost Based on Local, State & Federal Data

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

Water	\$220.27
Sewer	\$356.75
Combined	\$577.02

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Additional 2018 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 0-25%

MWRA Charges as % of Total Community Sewer Expenses N/A

Miles of water pipeline replaced/rehabilitated in FY18 3 – 6

Miles of sewer pipeline replaced/rehabilitated in FY18 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

Stormwater

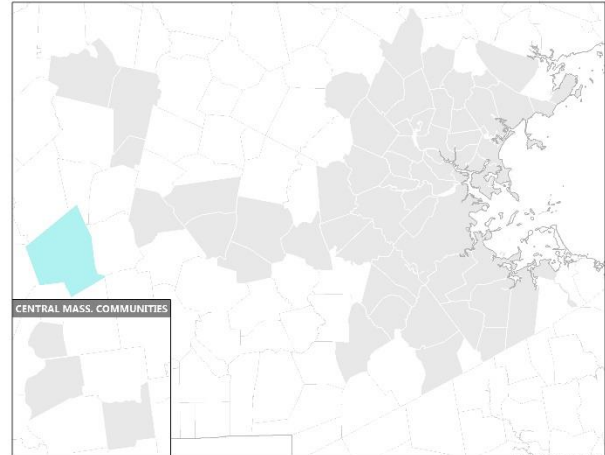
Current Funding Source of Stormwater-Related Costs:

Water/Sewer Rates

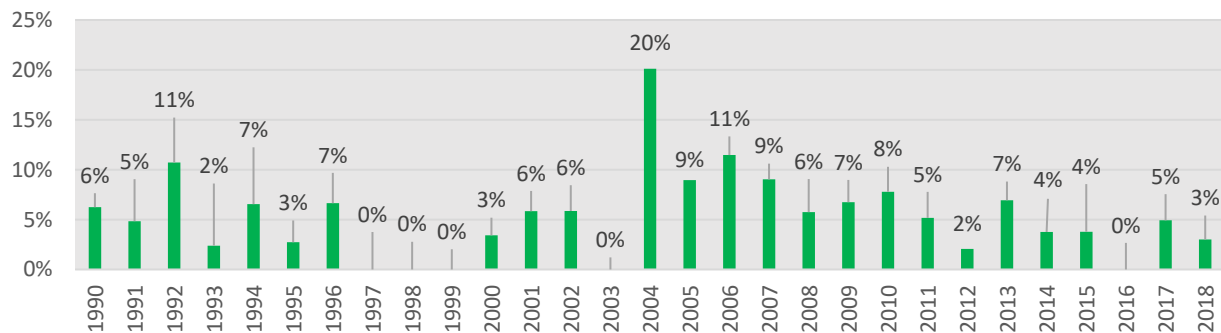
Worcester (partial W)

FY 2019 MWRA Assessments

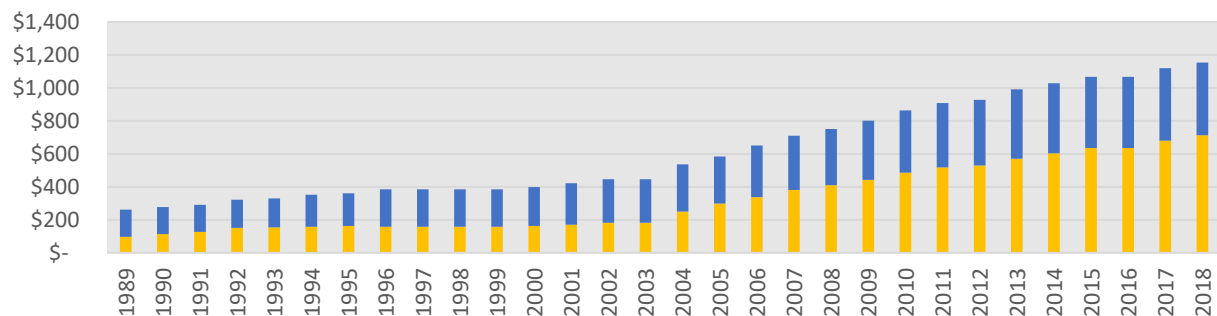
	FY18	FY19	% Change
Water	\$0	\$0	0.00%
Sewer	\$0	\$0	0.00%
Combined	\$0	\$0	0.00%



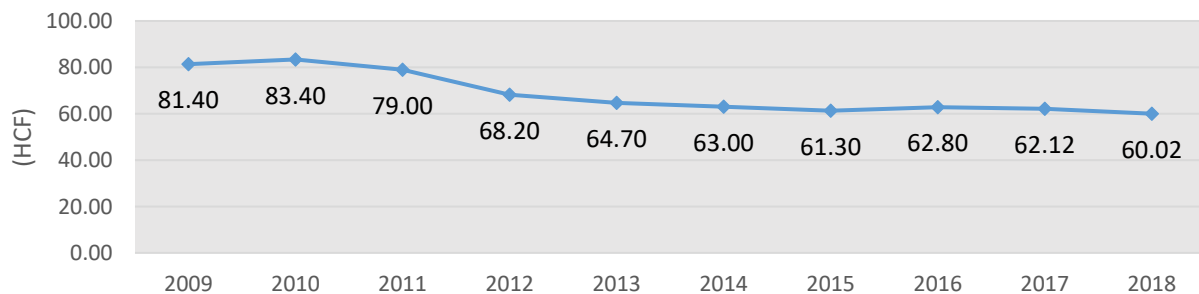
Combined Rate Increases 1990 through 2018



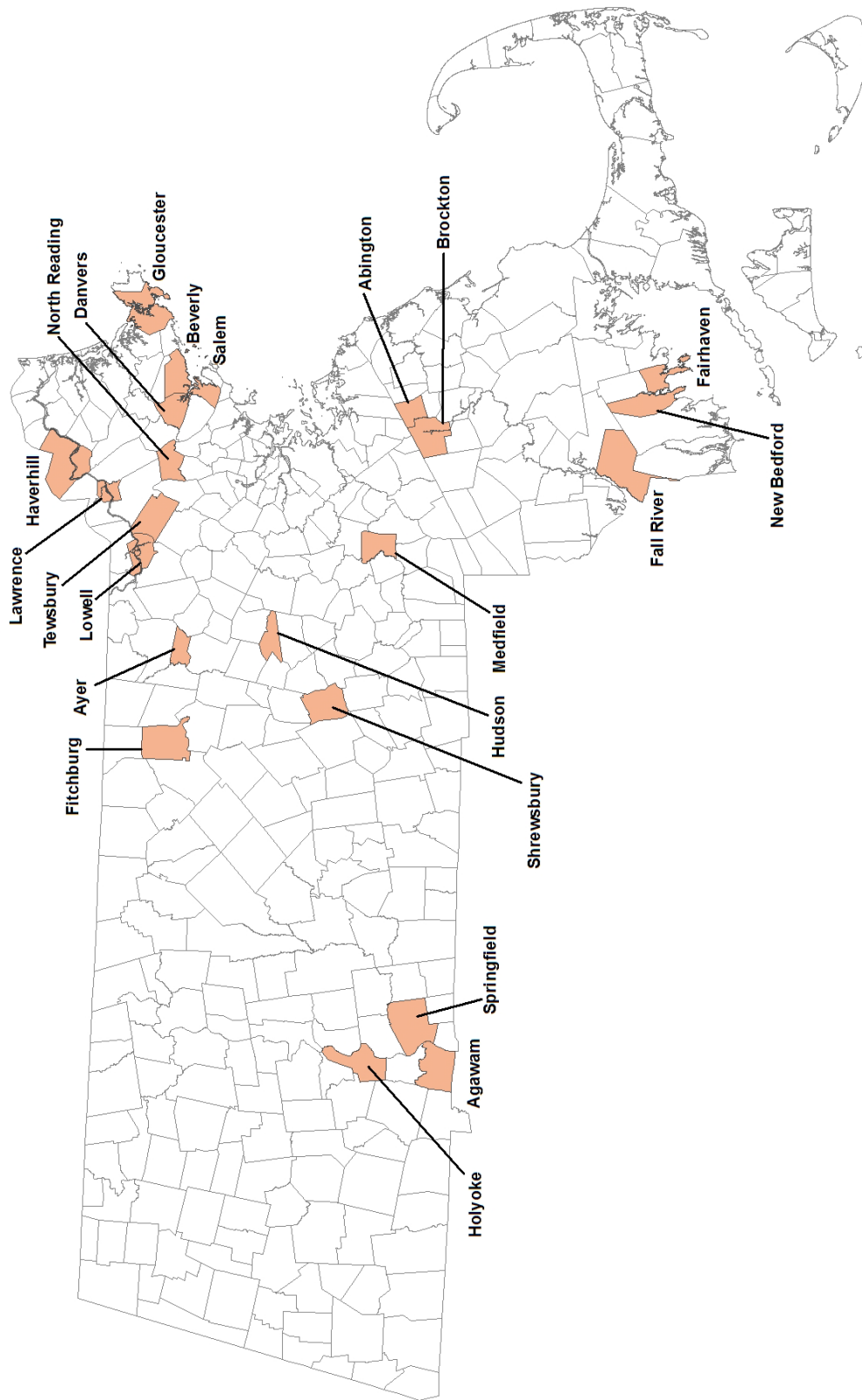
Combined Water and Sewer Rates 1989 through 2018



Average Household Water Use 2009 through 2018



SELECT NON-MWRA MASSACHUSETTS COMMUNITIES 2018 WATER AND SEWER CHARGES



map28-2

COMPARATIVE ANNUAL RESIDENTIAL WATER AND SEWER CHARGES FOR SELECTED NON-MWRA COMMUNITIES IN MASSACHUSETTS 2018

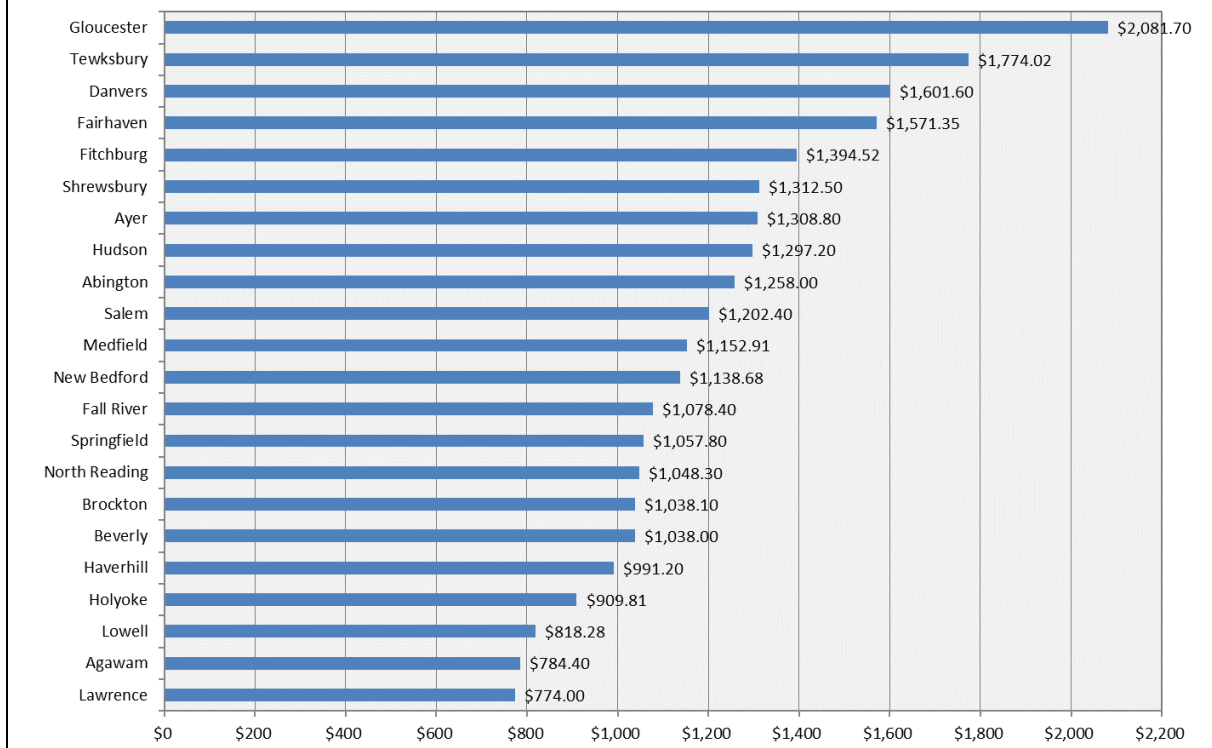
	Water	Sewer	Combined	Change
Abington	\$618.00	\$640.00	\$1,258.00	0.0%
Agawam	\$317.20	\$467.20	\$784.40	0.0%
Ayer	\$348.40	\$960.40	\$1,308.80	2.9%
Beverly	\$364.80	\$673.20	\$1,038.00	0.0%
Brockton	\$592.10	\$446.00	\$1,038.10	5.6%
Danvers	\$788.00	\$813.60	\$1,601.60	2.1%
Fairhaven	\$681.35	\$890.00	\$1,571.35	2.7%
Fall River	\$432.80	\$645.60	\$1,078.40	2.6%
Fitchburg	\$488.28	\$906.24	\$1,394.52	6.9%
Gloucester	\$747.00	\$1,334.70	\$2,081.70	3.3%
Haverhill	\$363.60	\$627.60	\$991.20	6.2%
Holyoke	\$423.81	\$486.00	\$909.81	2.0%
Hudson	\$490.80	\$806.40	\$1,297.20	6.5%
Lawrence	\$372.00	\$402.00	\$774.00	0.0%
Lowell	\$256.56	\$561.72	\$818.28	3.0%
Medfield	\$478.52	\$674.39	\$1,152.91	4.4%
New Bedford	\$422.80	\$715.88	\$1,138.68	28.8%
North Reading	\$1,048.30	Not Sewered	\$1,048.30	0.0%
Salem	\$397.20	\$805.20	\$1,202.40	10.6%
Shrewsbury	\$517.50	\$795.00	\$1,312.50	14.1%
Springfield	\$419.40	\$638.40	\$1,057.80	7.3%
Tewksbury	\$925.42	\$848.60	\$1,774.02	1.8%
AVERAGE	\$522.45	\$720.86	\$1,243.31	4.8%

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 CHART OF RESIDENTIAL COMBINED WATER AND SEWER CHARGES 2018

*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 2017	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 2017	0.0%

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 \$ 2.57/HCF
 >60 – 120 HCF \$ 3.18 "
 >120 HCF \$ 3.76 "

Residential Sewer Rates:

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

Minimum charge \$10.00
 0 – 60 HCF \$ 7.67/HCF
 >60 – 120 HCF \$ 8.79 "
 >120 HCF \$ 10.00 "
 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	\$348.40
Sewer	\$960.40
Combined	\$1,308.80
% change from 2017	2.9%

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 2017	0.0%

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 2018
 Next adjustment scheduled: January 2019
 Fund: Enterprise

Minimum charge (% meter)	\$29.85/bill
0 – 12.5 HCF	\$ 3.98/HCF
>12 – 25 HCF	\$ 5.07 "
>25 – 50 HCF	\$ 6.89 "
>50 – 100 HCF	\$ 7.48 "
>100 – 250 HCF	\$ 7.82 "
>250	\$ 8.13 "

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	\$592.10
Sewer	\$446.00
Combined	\$1,038.10
% change from 2017	5.6%

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 2018
 Next adjustment scheduled: June 2019
 Fund: Enterprise

Base Charge	\$12.00/bill
0 – 20 HCF	\$ 5.92/HCF
>20 – 24 HCF	\$ 6.66 "
>24 HCF	\$ 8.54 "

Residential Sewer Rates:

Last adjusted: June 2018
 Next adjustment scheduled: June 2019
 Fund: Enterprise

0 – 20 HCF	\$ 6.69/HCF
>20 – 24 HCF	\$ 6.96 "
>24 HCF	\$ 8.37

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	\$788.00
Sewer	\$813.60
Combined	\$1,601.60
% change from 2017	2.1%

Commercial Water Rates:

0 – 40 HCF \$5.92/HCF
 >40 HCF \$6.66 "

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

0 – 40 HCF \$6.69/HCF
 >40 HCF \$6.96 "

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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Base Charge \$25.00/bill
 All units \$7.00/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	\$890.00
Combined	\$1,571.35
% change from 2017	2.7%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Fall River

Residential Water Rates:

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

Service connection fee (¾" meter) \$14.00/quarter
 All units \$ 3.14/HCF

Residential Sewer Rates:

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

All units \$ 5.38/HCF

Billing Frequency: Quarterly

Based on 100% of water usage.

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

Water	\$488.28
Sewer	\$906.24
Combined	\$1,394.52
% change from 2017	2.6%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Stormwater Fee: \$44.00/quarter (not included in sewer calculation)

Fitchburg

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

Base charge includes 2 HCF \$ 7.09/bill
 >2 HCF \$ 4.20/HCF

Billing Frequency: Monthly

Residential Sewer Rates:

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

Minimum includes 3 HCF \$20.36/bill
 >3HCF \$ 7.88/HCF
 Based on 100% of water usage.

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

Water	\$488.28
Sewer	\$906.24
Combined	\$1,394.52
% change from 2017	6.9%

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 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$8.30/kgal

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

All units \$14.83/kgal
 Based on 100% of water usage.

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

Water	\$747.00
Sewer	\$1,334.70
Combined	\$2,801.70
% change from 2017	3.3%

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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise
 All units \$3.03/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise
 All units \$5.23/HCF
 Based on 100% of water usage.

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

Water	\$363.60
Sewer	\$627.60
Combined	\$991.20
% change from 2017	6.2%

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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise
 Minimum charge includes first 10,000 gallons \$47.09/bill
 >10,000 gallons \$ 4.709/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	\$423.81
Sewer	\$486.00
Combined	\$809.81
% change from 2017	2.0%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Two entities are provided with a commercial rate

Senior and/or Low Income Discounts: None

Hudson

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: No Response
 Fund: General

Minimum charge \$15.28
 >0 – 15 HCF \$ 3.82/kgal
 >15 – 30 HCF \$ 4.36 "
 >30 – 50 HCF \$ 4.43 "
 >50 – 150 HCF \$ 4.50 "
 >150 HCF \$ 4.59 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: No Response
 Fund: General

Minimum charge includes 4 HCF \$26.88/bill
 All units \$ 6.72/kgal
 Based on 100% of water usage.

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

Water	\$490.80
Sewer	\$806.40
Combined	\$1,297.20
% change from 2017	6.5%

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 2017	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: July 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

0 – 50 HCF	\$2.138/HCF
>50 – 100 HCF	\$2.525 "
>100 – 200 HCF	\$2.565 "
>200 – 500 HCF	\$2.603 "
>500 HCF	\$2.623 "

Residential Sewer Rates:

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

0 – 50 HCF	\$4.681/HCF
>50 – 100 HCF	\$4.942 "
>100 – 200 HCF	\$5.019 "
>200 – 500 HCF	\$5.103 "
>500 HCF	\$5.178 "

Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$256.56
Sewer	\$561.72
Combined	\$818.28
% change from 2017	3.0%

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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Minimum bill includes 10,000 gals.
 \$51.86/bill
 >10 – 35 kgal \$ 4.58/kgal
 >35 – 70 kgal \$ 7.29 "
 >70 kgal \$ 10.33 "

Residential Sewer Rates:

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

Minimum bill includes 10,000 gals.
 \$90.97/bill
 >10 kgal \$ 9.38/kgal

Based on 75% of water usage.

Billing Frequency: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$478.52
Sewer	\$674.39
Combined	\$1,152.91
% change from 2017	4.4%

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 2018
 Next adjustment scheduled: June 2019
 Fund: Enterprise

Base charge \$35.78/year
 Meter rental fee (5/8" meter) \$11.42/year
 All units \$ 3.13/HCF

Residential Sewer Rates:

Last adjusted: June 2018
 Next adjustment scheduled: June 2019
 Fund: Enterprise

Base charge \$88.28/year
 All units \$ 5.23/HCF

Based on 100% of water usage.

Billing Frequency: Monthly

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

Water	\$422.80
Sewer	\$715.88
Combined	\$1,138.68
% change from 2017	28.8%

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 2017	0.0%

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 2018
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Minimum bill (5/8" meter) \$33.10
 All units \$ 3.31/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

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

All units \$6.71/HCF
 Based on 100% of water usage.

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

Water	\$397.20
Sewer	\$805.20
Combined	\$1,202.40
% change from 2017	10.6%

Commercial Water Rates:

All units \$4.48/HCF

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

0 – 250 HCF/month \$ 10.61/HCF
 >250 HCF/month \$ 13.01/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: July 2018
 Next adjustment scheduled: Unknown
 Fund: No Response

Meter Fee \$20.00/bill
 0 – 5 kgal \$ 2.10/kgal
 >5 – 25 kgal \$ 5.65/ "
 >25 – 60 kgal \$ 8.66/ "
 >60 kgal \$ 16.00/ "

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	\$517.50
Sewer	\$795.00
Combined	\$1,312.50
% change from 2017	14.1%

Commercial Water Rates:

0 – 5 kgal \$ 4.75/kgal
 >5 – 25 kgal \$ 5.25/ "
 >25 – 50 kgal \$ 5.85/ "
 >50 kgal \$ 5.86/ "

Commercial Sewer Rates:

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

Springfield

Residential Water Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Chapter 40N

Service charge (5/8" meter) \$2.75/month
 All units \$3.22/HCF

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Next adjustment scheduled: July 2019
 Fund: Chapter 40N

All units \$5.32/HCF
 Based on 100% of water usage.

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

Water	\$419.40
Sewer	\$638.40
Combined	\$1,057.80
% change from 2017	7.3%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

All units \$5.85/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 2018
 Next adjustment scheduled: July 2019
 Fund: Enterprise

1 – 34 kgal/year \$ 7.55/kgal
 >34 – 70 kgal/year \$10.67 "
 >70 – 140 kgal/year \$14.19 "
 >140 kgal/year \$17.73 "

Billing Frequency: Tri-annually

Residential Sewer Rates:

Last adjusted: July 2016
 Next adjustment scheduled: July 2019
 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	\$925.42
Sewer	\$848.60
Combined	\$1,774.02
% change from 2017	1.8%

Commercial Water Rates:

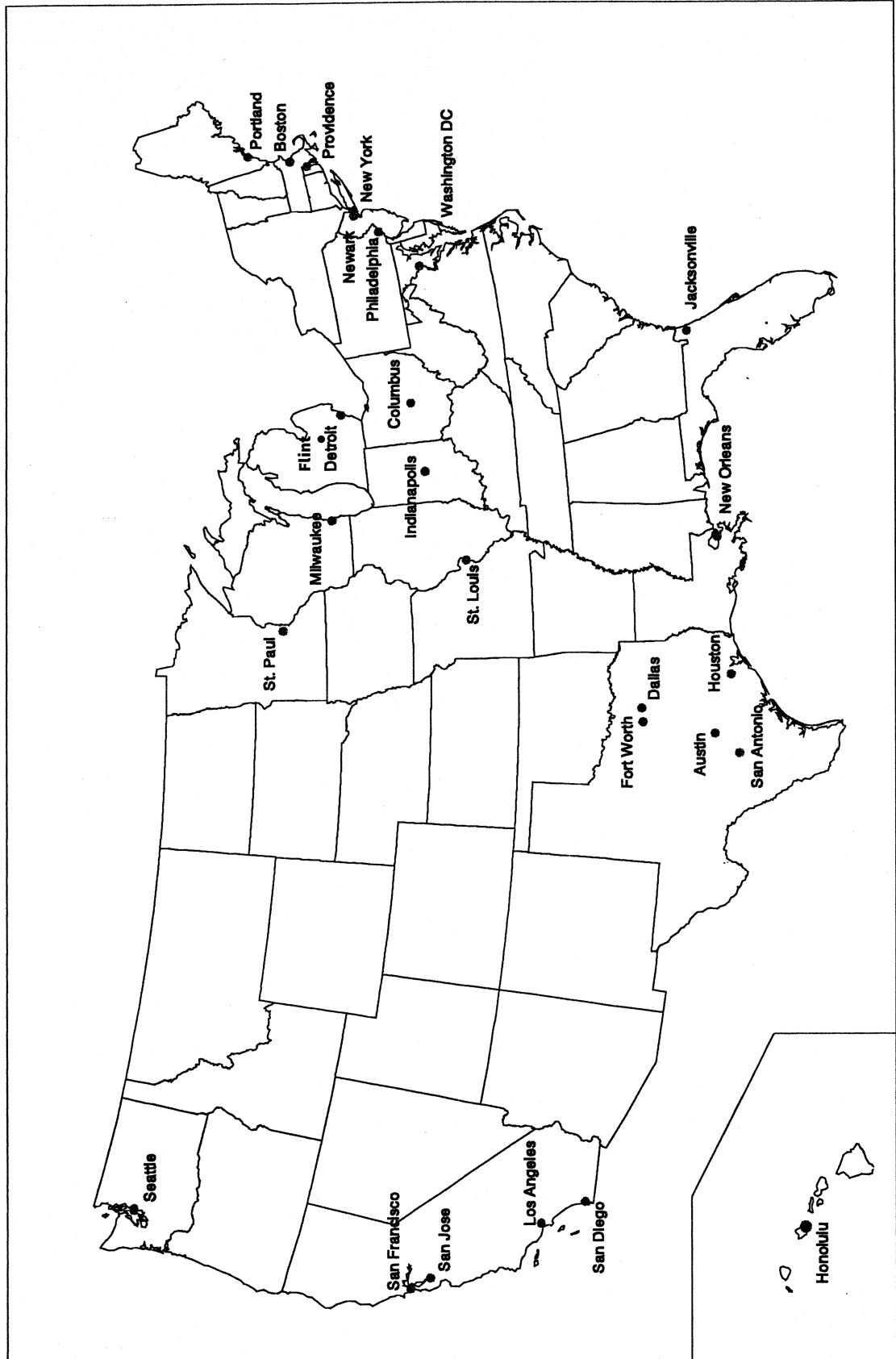
Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

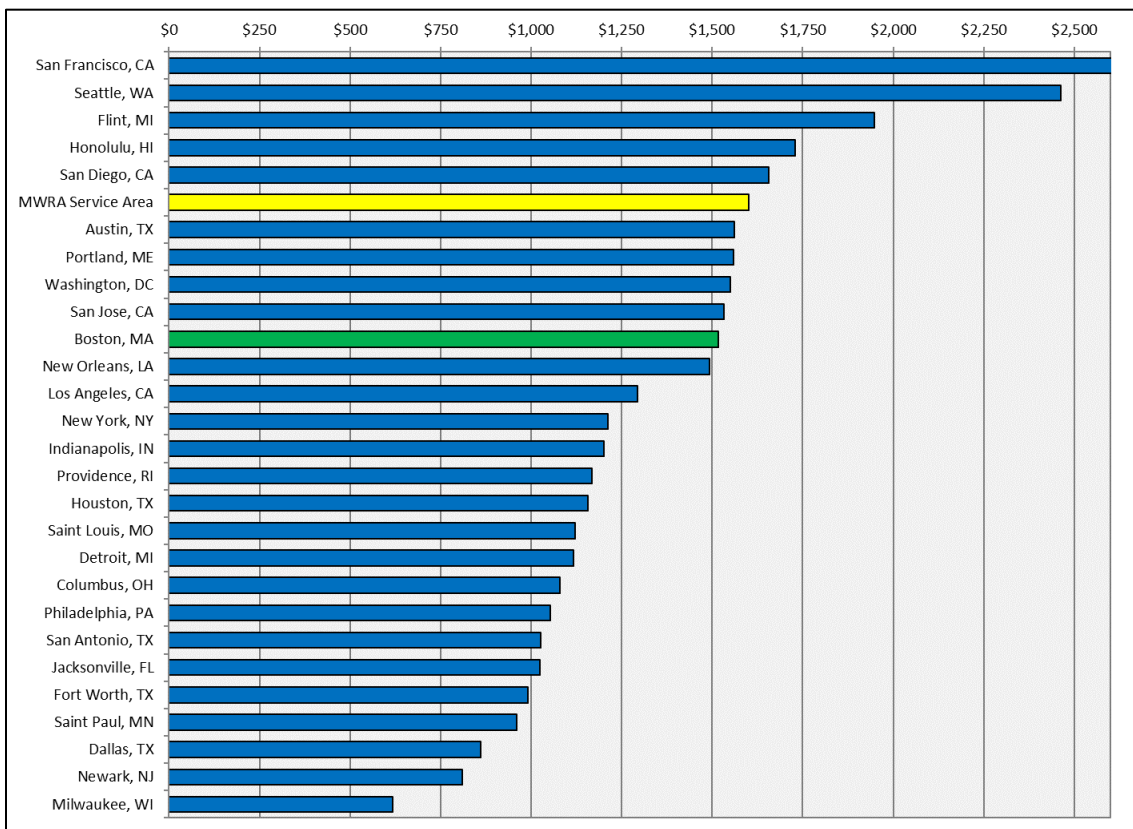
COMPARATIVE RESIDENTIAL 2018 WATER AND SEWER CHARGES FOR U.S. CITIES



COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES FOR MAJOR UNITED STATES CITIES 2018

	Water	Sewer	Combined	Change
Austin, TX	\$665.46	\$896.04	\$1,561.50	-3.6%
Boston, MA	\$631.32	\$885.53	\$1,516.85	4.7%
Columbus, OH	\$520.32	\$558.16	\$1,078.48	1.5%
Dallas, TX	\$321.24	\$539.76	\$861.00	-0.7%
Detroit, MI	\$384.12	\$733.44	\$1,117.56	4.4%
Flint, MI	\$1,017.60	\$930.96	\$1,948.56	0.0%
Fort Worth, TX	\$440.40	\$550.80	\$991.20	6.0%
Honolulu, HI	\$464.28	\$1,263.96	\$1,728.24	0.0%
Houston, TX	\$509.28	\$647.52	\$1,156.80	1.8%
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	\$600.94	\$1,293.58	2.9%
Milwaukee, WI	\$358.52	\$259.80	\$618.32	2.9%
MWRA Service Area	\$623.18	\$978.96	\$1,602.14	2.8%
New Orleans, LA	\$698.70	\$793.58	\$1,492.28	12.0%
New York, NY	\$468.00	\$744.00	\$1,212.00	2.4%
Newark, NJ	\$352.44	\$457.06	\$809.50	0.0%
Philadelphia, PA	\$599.64	\$454.32	\$1,053.96	-1.9%
Portland, ME	\$365.53	\$1,194.00	\$1,559.53	3.0%
Providence, RI	\$525.29	\$641.72	\$1,167.01	0.0%
Saint Louis, MO	\$307.76	\$813.96	\$1,121.72	7.6%
Saint Paul, MN	\$445.56	\$520.80	\$966.36	4.1%
San Antonio, TX	\$580.43	\$447.00	\$1,027.43	12.4%
San Diego, CA	\$1,061.42	\$594.17	\$1,655.59	9.8%
San Francisco, CA	\$1,143.60	\$1,567.20	\$2,710.80	6.0%
San Jose, CA	\$1,066.52	\$466.80	\$1,533.32	2.7%
Seattle, WA	\$847.60	\$1,615.20	\$2,462.80	3.4%
Washington, DC	\$551.48	\$997.72	\$1,549.20	11.6%
AVERAGE	\$590.19	\$767.72	\$1,357.91	3.5%

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.



Austin, Texas

Residential Water Rates:

Last adjusted:	November 2017
Fund:	Enterprise
Base charge (5/8" meter)	\$ 7.25/month
0 – 2 kgal	\$ 2.89/kgal
2 – 6 kgal	\$ 4.81 "
6 – 11 kgal	\$ 8.34 "
11 – 20 kgal	\$12.70 "
>20 kgal	\$14.21 "

Next adjustment scheduled:	January 2020
Billing Frequency:	Monthly

Residential Sewer Rates:

Last adjusted:	November 2017
Fund:	Enterprise
Base charge	\$10.30/month
0 – 2 kgal	\$ 4.85/kgal
>2 kgal	\$ 9.94 "
Based on winter average	

Next adjustment scheduled:	January 2020
Billing Frequency:	Monthly

Residential Stormwater Rates

Last adjusted:	November 2017
Fund:	Enterprise
All Units (per IA (Acre)	Online Calculator www.AustinTexas.gov

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 \approx 90,000 gals.)	
Water	\$665.45
Sewer	\$896.04
Combined	\$1,561.50
% change from 2016	-3.6%

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 2018
 Fund: Enterprise
 Base charge per bill \$ 35.38
 0 – 5 HCF \$ 2.89/HCF
 >5 HCF \$ 3.21 "

Next adjustment scheduled: Unknown
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: January 2018
 Fund: Enterprise
 Base charge per bill \$ 12.34
 All Units \$ 4.24/HCF
 Based on 100% of water usage.

Next adjustment scheduled: Unknown
 Billing Frequency: Quarterly

Residential Stormwater Rates

Last adjusted: January 2018
 Fund: Enterprise
 All Units \$ 0.1545/ERU
 All Units (Clear Rivers Fee) \$ 0.1147/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	\$520.32
Sewer	\$558.16
Combined	\$1,078.48
% change from 2016	1.5%

Stormwater fee not included in annual rates.

Dallas, Texas

Residential Water Rates:

Last adjusted: October 2018
 Fund: Enterprise
 Base charge (5/8" meter) \$5.33/bill
 0 – 4 kgal \$1.86/kgal
 >4 – 10 kgal \$4.00 "
 >10 – 20 kgal \$6.50 "
 >20 – 30 kgal \$9.30 "
 >30 kgal \$10.70 "

Next adjustment scheduled: Unknown
 Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: October 2018
 Fund: Enterprise
 Base charge (5/8" meter) \$4.78/bill
 All units \$5.36/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 \approx 90,000 gals.)	
Water	\$321.24
Sewer	\$539.76
Combined	\$861.00
% change from 2016	-0.7%

See [Appendix G](#) also for additional stormwater information.

Stormwater fee not included in annual rates.

Detroit, Michigan

Residential Water Rates:

Last adjusted: October 2018
 Fund: Enterprise
 Meter charge (5/8" meter) \$7.30/bill
 All units \$2.471/HCF

Next adjustment scheduled: Unknown
 Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: October 2018
 Fund: Enterprise
 Base charge \$ 6.28/bill
 All units \$ 5.484/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 \$598/Impervious Acre

Next adjustment scheduled: Unknown
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$384.12
Sewer	\$733.44
Combined	\$1,117.56
% change from 2016	4.4%

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 2018
Fund:	Enterprise
Service charge (5/8" meter)	\$12.10/bill
0 – 6 HCF	\$ 2.12/HCF
>6 – 18 HCF	\$ 2.97 "
>18 – 30 HCF	\$ 3.79 "
>30 HCF	\$ 4.56 "

Next adjustment scheduled:	January 2019
Billing Frequency:	Monthly

Residential Sewer Rates:

Last adjusted:	January 2018
Fund:	Enterprise
Base charge	\$6.50/bill
All units	\$3.94/HCF
Based on an individual customer's average monthly usage during the preceding months of December, January, and February.	

Next adjustment scheduled:	January 2019
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	\$440.40
Sewer	\$550.80
Combined	\$991.20
% change from 2016	6.0%

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 2018
Fund:	Enterprise
Base charge (5/8" meter)	\$ 5.39/bill
0 – 1 kgal	\$ 5.54/kgal
>1 – 2 kgal	\$12.62 "
>2 – 3 kgal	\$13.04 "
>3 – 4 kgal	\$24.67 "
>4 – 5 kgal	\$29.57 "
>5 – 6 kgal	\$34.46 "
>6 – 12 kgal	\$34.46 + \$5.32 per additional kgal
>12 kgal	\$68.92+ \$8.76 per additional kgal

Next adjustment scheduled:	April 2019
Billing Frequency:	Monthly

Residential Sewer Rates:

Last adjusted:	April 2018
Fund:	Enterprise
Base charge	\$11.45/bill
0 – 1 kgal	\$11.64/kgal
>1 – 2 kgal	\$12.02 "
>2 – 3 kgal	\$12.32 "
>3 – 4 kgal	\$28.25 "
>4 – 5 kgal	\$34.01 "
>5 – 6 kgal	\$43.39 "
>6 kgal	\$41.39 + \$8.38 per additional kgal

Next adjustment scheduled:	April 2019
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	\$509.28
Sewer	\$647.52
Combined	\$1,156.80
% change from 2016	1.8%

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

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%

See [Appendix G](#) also for additional stormwater information.

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
 Fund: Enterprise
 January 1 to June 30
 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 "

Next adjustment scheduled: Unknown
 Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Fund: Enterprise
 All units \$5.11/HCF
 Dry Winter Compensation factor is 84%.

Next adjustment scheduled: July 2019
 Billing Frequency: Bi-Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$692.64
Sewer	\$600.94
Combined	\$1,293.58
% change from 2016	3.0%

- 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 \$5.11/HCF.

Milwaukee, Wisconsin

Residential Water Rates:

Last adjusted: September 2018
 Fund: Enterprise
 November 1 to May 31
 Base charge (¾" meter) \$27.23/bill
 All units \$ 2.08/HCF

Next adjustment scheduled: September 2019
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: February 2018
 Fund: Enterprise
 Service charge \$15.45/bill
 All units (volume charge) \$ 1.65/HCF
 Based on winter water usage

Next adjustment scheduled: February 2019
 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	\$358.52
Sewer	\$259.80
Combined	\$618.32
% change from 2016	2.9%

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 2018
 Fund: Enterprise
 Service charge (5/8" meter) \$7.18/bill
 0 – 3 kgal \$4.79/kgal
 >3 – 20 kgal \$8.15 "
 >20 – 1,000 kgal \$6.41 "
 >1,000 kgal \$5.37 "

Next adjustment scheduled: January 2019

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: January 2018
 Fund: Enterprise
 Service charge (5/8" meter) \$20.55/bill
 All units \$ 7.15/kgal
 Based on 85% of water usage

Next adjustment scheduled: January 2019

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$698.70
Sewer	\$793.58
Combined	\$1,492.28
% change from 2016	12.0%

New York, New York

Residential Water Rates:

Last adjusted: July 2018
 Fund: Enterprise
 Minimum charge \$44.10
 All units \$ 3.90/HCF

Next adjustment scheduled: Unknown
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2018
 Fund: Enterprise
 Minimum charge \$70.20
 All units \$ 6.20/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	\$468.00
Sewer	\$744.00
Combined	\$1,212.00
% change from 2016	2.4%

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 2018
 Fund: Enterprise
 Base charge (5/8" meter) \$5.12/bill
 0 – 20 HCF \$4.485/HCF
 >20 – 980 HCF \$3.854 "
 >980 – 19,000 HCF \$2.987 "
 >19,000 HCF \$2.905 "

Next adjustment scheduled: July 2019
 Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Fund: Enterprise
 Base charge (5/8" meter) \$ 7.04/bill
 All units \$ 3.082/HCF
 Based on 100% of water usage

Next adjustment scheduled: July 2019
 Billing Frequency: Monthly

Residential Stormwater Rates

Last adjusted: Unknown
 Fund: Enterprise
 All Units (per 1A (Acre) Online Calculator
 www.Phila.gov

Next adjustment scheduled: Unknown
 Billing Frequency: Monthly

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

Water	\$599.64
Sewer	\$454.32
Combined	\$1,053.96
% change from 2016	-1.9%

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 2018
 Fund: Enterprise
 Minimum charge (5/8" meter)
 includes 1 HCF \$9.401/bill
 >1 – 30 HCF \$2.35/HCF
 >30 – 100 HCF \$2.02 "
 >100 – 500 HCF \$1.78 "
 >500 HCF \$1.00 "

Next adjustment scheduled: Unknown

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: May 2018
 Fund: Enterprise
 Minimum charge (5/8" meter)
 includes 1 HCF \$9.95/bill
 >1 \$9.95/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	\$365.53
Sewer	\$1,194.00
Combined	\$1,559.53
% change from 2016	3.0%

Providence, Rhode Island

Residential Water Rates:

Last adjusted: February 2017
 Fund: Enterprise
 Minimum charge (5/8" meter) \$7.89/bill
 All units \$3.403/HCF

Next adjustment scheduled: Unknown
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: May 2016
 Fund: Enterprise
 Annual Fixed Fee (any size meter up to 6 dwelling units) \$218.00/dwelling
 All units \$3.531/HCF
 Based on 100% of water usage.

Next adjustment scheduled: Unknown
 Billing Frequency: Monthly

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	0.0%

- 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 2018
 Fund: Special Revenue
 Base charge \$23.83/bill
 All units \$ 4.40/HCF
 Based on 100% of water usage.

Next adjustment scheduled: July 2019
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$307.76
Sewer	\$813.96
Combined	\$1,121.72
% change from 2016	7.6%

- 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 2018
 Fund: Enterprise
 Service Base Fee (<1") \$18.00/quarter
 Right of Way Recovery Fee \$ 4.50/"
 Winter – December to May:
 All units \$2.86/HCF

 Summer – June to November:
 All units \$2.96/HCF

 Annual testing charge \$6.36/household

Next adjustment scheduled: January 2019
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: January 2018
 Fund: Enterprise
 Service Base Fee \$9.00/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 2019
 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	\$445.56
Sewer	\$520.80
Combined	\$966.36
% change from 2016	4.1%

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 2019

Billing Frequency: Monthly

Base charge (5/8" meter)	\$12.77/bill
Water Supply Fee	
0 – 2.992 kgal	\$0.958/kgal
>2.992 – 4.489 kgal	\$1.676 "
>4.489 – 5.985 kgal	\$2.156 "
>5.985 – 7.481 kgal	\$2.634 "
>7.481 – 10.473 kgal	\$3.113 "
>10.473 – 14.962 kgal	\$3.593 "
>14.962 – 20.119 kgal	\$4.311 "
>20.119 kgal	\$6.228 "

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	\$13.45
>1.496 kgal	\$ 0.00/kgal
>1.496 – 2.992 HCF	\$ 2.874 "
>2.992 HCF	\$ 4.312 "

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	\$580.43
Sewer	\$447.00
Combined	\$1027.43
% change from 2016	12.4%

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 2018
Fund:	Enterprise
Base charge (5/8" meter)	\$48.44/bill
0 – 4 HCF/month	\$ 4.946/HCF
>4 – 12 HCF/month	\$ 5.540 "
>13 – 18 HCF/month	\$ 7.915 "
>18 HCF/month	\$11.30 "

Next adjustment scheduled:	August 2019
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	\$1,061.42
Sewer	\$594.17
Combined	\$1,655.59
% change from 2016	9.8%

Stormwater fee not included in annual rates.

San Francisco, California

Residential Water Rates:

Last adjusted: July 2018
 Fund: Enterprise
 Base charge (5/8" meter) \$12.30
 0 – 4 HCF/month \$ 7.10/HCF
 >4 HCF/month \$ 9.10 "

Next adjustment scheduled: July 2019
 Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Fund: Special Revenue
 Base charge (5/8" meter) \$11.76/HCF
 >3 HCF \$13.06/HCF
 Based on 90% of water usage.

Next adjustment scheduled: July 2019
 Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$1,143.60
Sewer	\$1,167.20
Combined	\$2,710.80
% change from 2016	6.0%

San Jose, California

Residential Water Rates:

Last adjusted: July 2018
 Fund: Enterprise
 Base charge (5/8" meter) \$27.77/bill
 0 – 3 HCF \$ 4.2878/HCF
 4 – 18 HCF \$ 4.7642 "
 >18 HCF \$ 5.2406 "

Next adjustment scheduled: February 2019

Billing Frequency: Bi-Monthly

Residential Sewer Rates:

Last adjusted: July 2018
 Fund: Special Revenue
 Flat rate \$466.80/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	\$1,066.52
Sewer	\$466.80
Combined	\$1,533.32
% change from 2016	2.7%

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 2018
 Fund: Enterprise
 Base charge (¾" meter)
 Winter – September 16
 to May 15:
 All units \$ 5.20 /HCF
 Summer – May 16
 To September 15:
 0 – 5 HCF \$ 5.33/HCF
 5 – 18 HCF \$ 6.59 "
 >18 HCF \$11.80 "

Next adjustment scheduled: January 2019
 Billing Frequency: Bi-Monthly

Residential Sewer Rates:

Last adjusted: January 2018
 Fund: Enterprise
 All units \$13.46/HCF

Next adjustment scheduled: January 2019
 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: Unknown
 Billing Frequency: Annually

See [Appendix G](#) also for additional stormwater information.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$847.60
Sewer	\$1,615.20
Combined	\$2,462.80
% change from 2016	3.4%

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 2018
Fund:	Enterprise
Meter fee (5/8" meter)	\$3.86/month
0 – 4 HCF	\$2.91/HCF
>4 HCF	\$3.90 "
Right-of-Way Fee	\$0.18 "
PILOT Fee	\$0.50 "
Water System Replacement Fee	\$6.30/month

Next adjustment scheduled:	October 2019
Billing Frequency:	Monthly

Residential Sewer Rates:

Last adjusted:	October 2018
Fund:	Enterprise
Meter fee (5/8" meter)	\$2.123/month
All units	\$7.75/HCF
Right of Way Fee	\$0.0935 "
PILOT Fee	\$0.2585 "

Next adjustment scheduled:	October 2019
Billing Frequency:	Monthly

Residential Stormwater Rates

Last adjusted:	October 2018
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 2019
Billing Frequency:	Monthly

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

Water	\$551.48
Sewer	\$997.72
Combined	\$1,549.20
% change from 2016	11.6%

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

2017 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 2017 rates and calculations may differ from the information published in the 2017 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 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	\$730.02	\$1,341.22	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/S)*	\$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%
AVERAGE	\$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).

ANNUAL WATER AND SEWER CHARGES IN COMMUNITIES RECEIVING SERVICES FROM THE MWRA 2017		
	Water	Sewer
Arlington (W/S)*	\$611.20	\$730.02
Ashland (S)	-	1,566.80
Bedford (S/partial W)	687.00	1,221.00
Belmont (W/S)	866.00	1,622.20
Boston (W/S)	604.01	844.67
Braintree (S)	-	908.80
Brookline (W/S)	683.80	1,019.60
Burlington (S)	-	391.50
Cambridge (S/partial W)	380.00	1,274.80
Canton (S/partial W)	643.40	1,073.00
Chelsea (W/S)	613.20	1,032.00
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)	-	1,188.00
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	1,014.72
Melrose (W/S)	918.40	1,396.52
Milton (W/S)	761.04	1,375.44
Nahant (W)*	890.40	-
Natick (S)	-	1,122.40
Needham (S/partial W)	471.60	1,182.24
Newton (W/S)	894.80	1,327.00
Northborough (partial W)	614.48	-
Norwood (W/S)	607.68	838.80
Peabody (partial W)	337.20	-
Quincy (W/S)	776.40	1,171.80
Randolph (S)	-	950.40
Reading (W/S)	1,200.00	1,220.40
Revere (W/S)	481.20	1,498.80
Saugus (W)	651.14	-
Somerville (W/S)	645.03	1,232.16
South Hadley (W)	530.40	-
Southborough (W)	437.08	-
Stoneham (W/S)	678.00	1,074.00
Stoughton (S/partial W)	576.80	1,174.80
Swampscott (W)	848.00	-
Wakefield (S/partial W)	750.60	1,177.20
Walpole (S)	-	841.06
Waltham (W/S)	407.28	715.32
Watertown (W/S)	537.60	993.60
Wellesley (S/partial W)	471.96	1,051.20
Weston (W)	267.20	-
Westwood (S/partial W)	629.28	813.00
Weymouth (S)	-	1,036.92
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	1,188.00
Woburn (S/partial W)	205.00	328.00
Worcester (partial W)	440.40	-
AVERAGE	\$596.44	\$1,005.74
Percent change	1.9%	2.19%
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 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	\$746.40	\$1,218.00	7.6%
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	\$848.60	\$1,742.58	0.3%
AVERAGE	\$494.06	\$692.74	\$1,186.81	3.7%

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 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	\$412.80	\$508.80	\$921.60	5.4%
San Antonio, TX	\$504.72	\$409.14	\$913.86	17.0%
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%
AVERAGE	\$572.65	\$739.73	\$1,312.38	4.3%

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.

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.

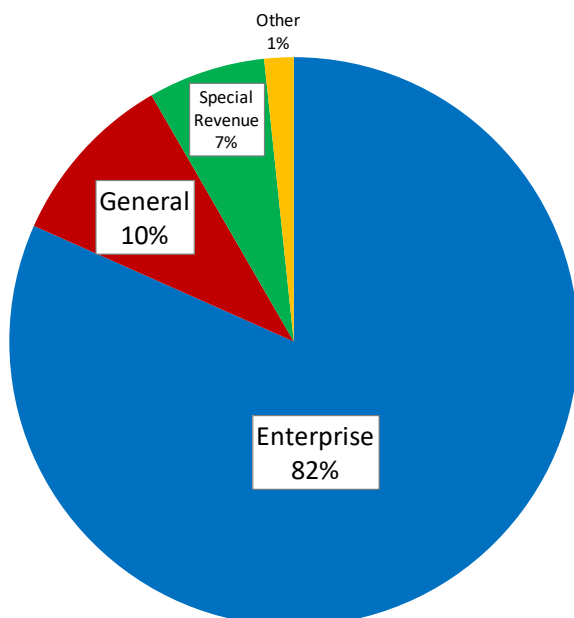
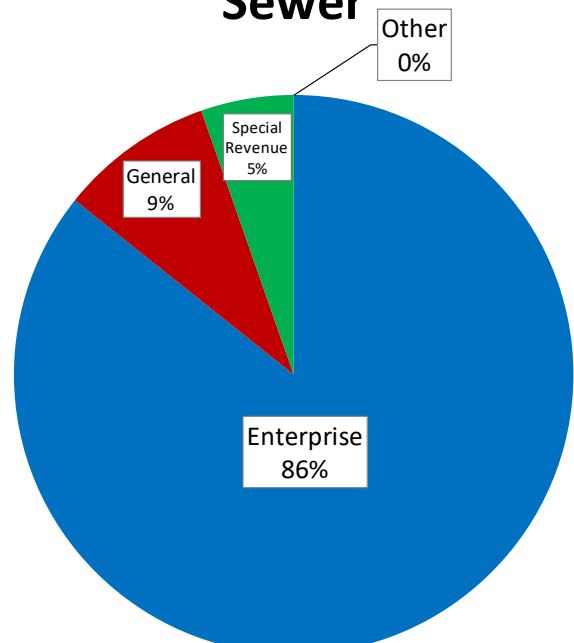
Like special revenue funds, enterprise funds allow communities to separately account for the expenditures and revenues of their water/sewer operations. Similarly, this segregated accounting provides enhanced information regarding the results of operations and facilitates rate setting and rate analyses. 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

2018 Residential Cost Based on Community Water Use Data

	B		C	D	E	F
Community	Annual Residential Water Use (million gallons) ¹	Population ²	Annual Per Capita Water Use (gallons)	Average Household Size ²	Annual Household Water Use (gallons)	Annual Household Water Use (hcf)
Data Source / Calculation	Public Water Supply Annual Statistical Report ³		Calculation C = A/B	2010 US Census	Calculation E = C x D	Calculation F = E /748
Arlington	835.8	42,844	19,509	2.24	43,700	58.4
Ashland	323.4	16,593	19,489	2.59	50,477	67.5
Bedford 3	276.9	14,230	19,459	2.50	48,647	65.0
Belmont 3	622.3	24,254	25,658	2.54	65,170	87.1
Boston	9,213.0	617,594	14,918	2.26	33,714	45.1
Braintree	636.9	35,744	17,818	2.56	45,613	61.0
Brookline	1,377.6	58,732	23,456	2.27	53,244	71.2
Burlington 3	444.2	24,491	18,135	2.64	47,878	64.0
Cambridge	1,785.2	105,162	16,976	2.00	33,951	45.4
Canton	492.0	21,561	22,819	2.54	57,960	77.5
Chelsea	618.2	35,177	17,574	2.92	51,317	68.6
Chicopee	1,116.1	55,298	20,183	2.28	46,018	61.5
Clinton	305.0	13,606	22,416	2.32	52,005	69.5
Dedham/Westwood 3	895.4	40,113	22,323	2.57	57,369	76.7
Everett 3	798.1	46,340	17,222	2.67	45,982	61.5
Framingham	1,256.4	68,318	18,390	2.47	45,424	60.7
Hingham 4	779.8	39,273	19,855	2.46	48,844	65.3
Holbrook	163.6	10,791	15,159	2.62	39,716	53.1
Leominster 3	683.3	40,490	16,876	2.41	40,670	54.4
Lexington 3	967.7	32,271	29,985	2.68	80,361	107.4
Lynn	1,736.1	90,329	19,220	2.69	51,701	69.1
Lynnfield Water District 3	119.7	4,740	25,253	2.77	69,950	93.5
Malden	1,118.0	59,450	18,806	2.50	47,014	62.9
Marblehead 3	504.3	19,210	26,254	2.42	63,534	84.9
Marlborough	661.9	38,499	17,192	2.46	42,292	56.5
Medford	977.3	56,173	17,397	2.38	41,405	55.4
Melrose	424.2	26,983	15,721	2.38	37,416	50.0
Milton	631.6	27,003	23,389	2.75	64,319	86.0
Nahant	117.0	3,410	34,311	2.18	74,798	100.0
Natick	739.0	33,006	22,391	2.44	54,633	73.0
Needham 3	723.5	33,233	21,769	2.72	59,212	79.2
Newton	1,590.0	85,146	18,674	2.50	46,685	62.4
Northborough	212.2	14,155	14,994	2.73	40,933	54.7
Norwood 3	549.4	27,384	20,063	2.37	47,549	63.6
Peabody	1,108.6	51,251	21,630	2.38	51,479	68.8
Quincy	1,396.8	92,271	15,138	2.24	33,909	45.3
Randolph 3	549.9	33,375	16,476	2.75	45,309	60.6
Reading 3	430.0	26,673	16,121	2.64	42,560	56.9
Revere	778.8	51,755	15,049	2.52	37,922	50.7
Saugus	595.3	26,628	22,357	2.55	57,009	76.2
Somerville	875.5	75,754	11,558	2.29	38,096	50.9
South Hadley FD #1 3	290.6	14,000	20,760	2.25	46,709	62.4
Southborough 3	226.8	9,664	23,468	2.89	67,821	90.7
Stoneham	603.1	21,437	28,134	2.36	66,395	88.8
Stoughton 3	460.7	24,318	18,945	2.59	49,067	65.6
Swampscott	369.8	13,787	26,825	2.46	65,988	88.2
Wakefield	599.8	24,932	24,058	2.47	59,422	79.4
Walpole	559.5	24,070	23,246	2.69	62,531	83.6
Waltham	1,129.5	60,632	18,629	2.28	42,474	56.8
Watertown	689.0	31,915	21,588	2.15	46,413	62.1
Wellesley	687.9	27,982	24,583	2.78	68,340	91.4
Weston 3	465.7	11,389	40,887	2.82	115,302	154.1
Weymouth 3	946.7	53,549	17,679	2.37	41,899	56.0
Wilbraham	223.1	14,219	15,693	2.63	41,272	55.2
Wilmington	422.5	22,325	18,927	2.93	55,456	74.1
Winchester 3	563.0	22,808	24,684	2.75	67,882	90.8
Winthrop	358.3	17,497	20,480	2.24	45,875	61.3
Woburn	1,152.3	38,120	30,229	2.43	73,456	98.2
Worcester	3,304.0	181,045	18,250	2.46	44,894	60.0

¹ **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.

² Except where noted **Total population** and **average household size** for each community based on the US Census Bureau.

³ **Total population** based on the 2017 Annual Public Water Supply Annual Statistical Report filed with the Massachusetts Department of Environmental Protection.

⁴ 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 **2018**

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	87.1	65,170.4	\$660.26	\$1,197.80	\$1,858.05
Nahant	100.0	74,797.7	\$885.97	\$895.97	\$1,781.94
Milton	86.0	64,319.4	\$638.38	\$1,049.02	\$1,687.39
Lexington	107.4	80,361.0	\$479.49	\$930.68	\$1,410.16
Stoneham	88.8	66,395.0	\$558.55	\$829.39	\$1,387.94
Marblehead	84.9	63,534.3	\$476.95	\$851.18	\$1,328.13
Wakefield	79.4	59,422.2	\$514.78	\$811.49	\$1,326.28
Ashland	67.5	50,476.9	\$280.29	\$936.94	\$1,217.23
Wellesley	91.4	68,340.0	\$371.57	\$844.26	\$1,215.83
Hingham	65.3	48,843.6	\$507.02	\$646.46	\$1,153.47
Reading	56.9	42,560.3	\$568.99	\$578.66	\$1,147.65
Newton	62.4	46,684.5	\$434.33	\$697.67	\$1,132.01
Swampscott	88.2	65,988.4	\$635.07	\$493.74	\$1,128.82
Needham	79.2	59,211.8	\$316.43	\$784.94	\$1,101.37
Dedham	76.7	57,369.1	\$331.13	\$748.99	\$1,080.11
Canton	77.5	57,960.2	\$373.44	\$675.93	\$1,049.37
Walpole	83.6	62,530.6	\$438.17	\$604.51	\$1,042.68
Winthrop	61.3	45,875.4	\$423.80	\$612.69	\$1,036.49
Brookline	71.2	53,244.4	\$418.58	\$616.09	\$1,034.67
Chelsea	68.6	51,316.9	\$371.84	\$643.52	\$1,015.36
Melrose	50.0	37,416.0	\$388.54	\$602.92	\$991.46
Stoughton	65.6	49,066.5	\$326.16	\$652.03	\$978.19
Northborough	54.7	40,932.7	\$285.71	\$591.01	\$876.71
Framingham	60.7	45,423.5	\$382.25	\$487.78	\$870.03
Bedford	65.0	48,647.2	\$310.80	\$541.01	\$851.81
Westwood	76.7	57,369.1	\$331.13	\$516.34	\$847.47
Randolph	60.6	45,308.5	\$358.65	\$478.86	\$837.50
Marlborough	56.5	42,292.4	\$401.44	\$413.88	\$815.32
Watertown	62.1	46,413.5	\$282.33	\$529.29	\$811.62
Revere	50.7	37,922.5	\$203.30	\$607.37	\$810.67
Braintree	61.0	45,613.3	\$305.47	\$492.71	\$798.19
Weymouth	56.0	41,898.9	\$294.94	\$486.04	\$780.98
Medford	55.4	41,405.3	\$312.23	\$465.37	\$777.60
Holbrook	53.1	39,716.4	\$355.75	\$405.13	\$760.88
Somerville	50.9	38,096.0	\$210.73	\$537.38	\$748.11
Lynn	69.1	51,701.1	\$257.81	\$473.47	\$731.28
Wilmington	74.1	55,456.4	\$297.21	\$415.18	\$712.39
Natick	73.0	54,633.2	\$171.41	\$531.71	\$703.13
Arlington	58.4	43,700.0	\$312.95	\$370.20	\$683.15
Cambridge	45.4	33,951.1	\$138.26	\$502.68	\$640.94
Malden	62.9	47,014.3	\$286.61	\$351.35	\$637.96
Saugus	76.2	57,009.2	\$385.62	\$243.99	\$629.61
Chicopee	61.5	46,017.8	\$253.77	\$373.18	\$626.95
Norwood	63.6	47,548.9	\$280.34	\$342.30	\$622.64
Woburn	98.2	73,455.9	\$329.78	\$256.52	\$586.30
Worcester	60.0	44,894.0	\$220.27	\$356.75	\$577.02
Boston	45.1	33,713.7	\$232.53	\$328.35	\$560.87
Everett	61.5	45,982.1	\$146.31	\$398.35	\$544.65
Leominster	54.4	40,670.4	\$240.17	\$258.39	\$498.55
Weston	154.1	115,302.3	\$490.07		\$490.07
Waltham	56.8	42,474.0	\$174.33	\$310.04	\$484.36
Wilbraham	55.2	41,272.0	\$227.42	\$226.32	\$453.74
Quincy	45.3	33,909.2	\$302.37	\$150.63	\$453.00
Peabody	68.8	51,479.5	\$187.25	\$249.65	\$436.90
Winchester	90.8	67,881.9	\$204.32	\$217.49	\$421.81
Clinton	69.5	52,004.8	\$204.64	\$153.48	\$358.12
Lynnfield	93.5	69,949.5	\$320.06		\$320.06
Southborough	90.7	67,821.4	\$312.14		\$312.14
South Hadley	62.4	46,709.4	\$304.79		\$304.79
Burlington	64.0	47,877.6	\$95.90	\$131.27	\$227.16
Average (minus non-sewered communities)			\$346.14	\$533.90	\$880.04

APPENDIX D

FINAL MWRA FISCAL YEAR 2019 BILLABLE WATER AND SEWER CHARGES

MASSACHUSETTS WATER RESOURCES AUTHORITY FINAL FY19 BILLABLE WATER AND SEWER CHARGES

MWRA Customer	Final FY18 Water Assessment	Final FY19 Water Assessment	Percent Change from FY18	Final FY18 Sewer Assessment	Final FY19 Sewer Assessment	Percent Change from FY18	Final FY18 Combined Assessment	Final FY19 Combined Assessment	Dollar Change from FY18	Percent Change from FY18
ARLINGTON	5,218,727	5,207,787	-0.2%	8,338,483	8,449,531	1.3%	13,557,210	13,657,318	100,108	0.7%
ASHLAND				2,592,423	2,693,503	3.9%	2,592,423	2,693,503	101,080	3.9%
BEDFORD				3,546,882	3,655,178	3.1%	3,546,882	3,655,178	108,296	3.1%
BELMONT	2,906,748	2,845,415	-2.1%	4,923,065	5,092,015	3.4%	7,829,813	7,937,430	107,617	1.4%
BOSTON (BWS)	85,905,357	90,752,551	5.6%	135,974,820	141,531,379	4.1%	221,880,177	232,283,930	10,403,753	4.7%
BRAINTREE				9,599,185	9,758,859	1.7%	9,599,185	9,758,859	159,674	1.7%
BROOKLINE	6,806,844	7,037,965	3.4%	12,978,537	12,898,264	-0.6%	19,785,381	19,936,229	150,848	0.8%
BURLINGTON				5,286,375	5,530,776	4.6%	5,286,375	5,530,776	244,401	4.6%
CAMBRIDGE				24,713,139	25,518,527	3.3%	24,713,139	25,518,527	805,388	3.3%
CANTON	2,538,303	1,874,192	-26.2%	4,210,854	4,383,915	4.1%	6,749,157	6,258,107	-491,050	-7.3%
CHELSEA	4,277,382	4,830,322	12.9%	7,717,861	8,305,015	7.6%	11,995,243	13,135,337	1,140,094	9.5%
DEDHAM				5,482,446	5,597,434	2.1%	5,482,446	5,597,434	114,988	2.1%
DEDHAM-WESTWOOD WATER	295,794	154,204	-47.9%				295,794	154,204	-141,590	-47.9%
EVERETT	5,182,465	5,466,023	5.5%	8,378,885	8,876,844	5.9%	13,561,350	14,342,867	781,517	5.8%
FRAMINGHAM	8,003,044	8,205,353	2.5%	13,063,056	13,423,226	2.8%	21,066,100	21,628,579	562,479	2.7%
FRAMINGHAM SEWER DISTRICT				1,846,255	1,902,184	3.0%	1,846,255	1,902,184	55,929	3.0%
HOLBROOK				1,804,666	1,824,554	1.1%	1,804,666	1,824,554	19,888	1.1%
LEXINGTON	7,246,531	7,128,006	-1.6%	7,402,979	7,572,486	2.3%	14,649,510	14,700,492	50,982	0.3%
LYNN (LWSC)	326,368	320,031	-1.9%				326,368	320,031	-6,337	-1.9%
LYNNFIELD WATER DISTRICT	748,610	759,983	1.5%				748,610	759,983	11,373	1.5%
MALDEN	6,762,968	7,119,028	5.3%	13,307,655	13,514,306	1.6%	20,070,623	20,633,334	562,711	2.8%
MARLBHEAD	2,469,760	2,531,598	2.5%				2,469,760	2,531,598	61,838	2.5%
MARLBOROUGH	4,902,062	5,820,947	18.7%				4,902,062	5,820,947	918,885	18.7%
MEDFORD	6,383,291	6,462,326	1.2%	12,118,702	12,356,732	2.0%	18,501,993	18,819,058	317,065	1.7%
MELROSE	2,854,570	2,897,122	1.5%	6,387,893	6,520,195	2.1%	9,242,463	9,417,317	174,854	1.9%
MILTON	3,495,641	3,463,069	-0.9%	5,450,348	5,556,575	1.9%	8,945,989	9,019,644	73,655	0.8%
NAHANT	537,696	496,315	-7.7%				537,696	496,315	-41,381	-7.7%
NATICK				5,924,062	5,972,626	0.8%	5,924,062	5,972,626	48,564	0.8%
NEEDHAM	1,109,794	856,049	-22.9%	5,889,796	6,173,219	4.8%	6,999,590	7,029,268	29,678	0.4%
NEWTOWN	12,891,560	12,080,214	-6.3%	21,760,724	22,348,192	2.7%	34,652,284	34,428,406	-223,878	-0.6%
NORTHBOROUGH							1,240,294	1,271,058	30,764	2.5%
NORWOOD	3,703,392	4,064,489	9.8%	7,436,847	7,628,062	2.6%	11,140,239	11,692,551	552,312	5.0%
PEABODY	1,939,097	4,162,771	114.7%				1,939,097	4,162,771	2,223,674	114.7%
QUINCY	12,195,555	11,998,387	-1.6%	20,574,282	20,708,161	0.7%	32,773,837	32,706,548	-67,289	-0.2%
RANDOLPH				6,339,800	6,530,979	3.0%	6,339,800	6,530,979	191,179	3.0%
READING	2,211,234	2,296,922	3.9%	4,939,434	5,090,525	3.1%	7,150,668	7,387,447	236,779	3.3%
REVERE	4,896,715	5,185,345	5.9%	10,775,969	10,761,283	-0.1%	15,672,684	15,946,628	273,944	1.7%
SAUGUS	3,953,935	4,016,971	1.6%				3,953,935	4,016,971	63,036	1.6%
SOMERVILLE	7,928,695	8,055,307	1.6%	16,508,256	17,094,747	3.6%	24,436,951	25,150,054	713,103	2.9%
SOUTHBOROUGH	997,207	866,571	-13.1%				997,207	866,571	-130,636	-13.1%
STONEHAM	3,027,480	3,105,808	2.6%	4,600,334	4,616,825	0.4%	7,627,814	7,722,633	94,819	1.2%
STOUGHTON	253,810	161,431	-36.4%	5,031,822	5,072,227	0.8%	5,285,632	5,233,658	-51,974	-1.0%
SWAMPSCOTT	1,892,557	2,021,785	6.8%				1,892,557	2,021,785	129,228	6.8%
WAKEFIELD	2,169,915	2,133,553	-1.7%	6,075,836	6,290,285	3.5%	8,245,751	8,423,838	178,087	2.2%
WALPOLE				3,821,880	3,988,527	4.4%	3,821,880	3,988,527	166,647	4.4%
WALTHAM	9,038,537	9,311,252	3.0%	13,521,664	13,800,824	2.1%	22,560,201	23,112,076	551,875	2.4%
WATERTOWN	3,386,389	3,696,371	9.1%	6,103,914	6,357,733	4.2%	9,492,303	10,054,104	561,801	5.9%
WELLESLEY	1,742,278	1,485,700	-14.7%	5,601,602	5,745,909	2.6%	7,343,880	7,231,609	-112,271	-1.5%
WESTON	2,818,905	2,493,163	-11.6%				2,818,905	2,493,163	-325,742	-11.6%
WESTWOOD				2,777,442	2,988,061	7.6%	2,777,442	2,988,061	210,619	7.6%
WETUMOUTH				12,036,129	12,584,755	4.6%	12,036,129	12,584,755	548,626	4.6%
WILMINGTON	776,226	503,145	-35.2%	2,804,912	2,913,415	3.9%	3,581,138	3,416,560	-164,578	-4.6%
WINCHESTER	2,121,826	1,840,674	-13.3%	4,144,555	4,319,099	4.2%	6,266,381	6,159,773	-106,608	-1.7%
WINTHROP	1,615,822	1,698,840	5.1%	3,395,228	3,565,533	5.0%	5,011,050	5,264,373	253,323	5.1%
WOBURN	3,636,173	3,177,148	-12.6%	9,449,446	9,474,524	0.3%	13,085,619	12,651,672	-433,947	-3.3%
TOTAL	242,415,557	249,855,191	3.1%	474,638,443	489,187,009	3.1%	717,054,000	739,042,200	21,988,200	3.1%

(1) Some communities receive partial water or sewer services from MWRA.

APPENDIX E

ADDITIONAL 2018 DATA FOR MWRA COMMUNITIES

PERCENTAGE OF WATER UNACCOUNTED FOR
--

No answer	5
0 – 5%	7
5 – 10%	18
10 – 15%	12
15+%	18
Invalid Data	0
Not applicable	0

PERCENTAGE OF WATER SERVICE BILLS LIENED

No answer	5
0 – 5%	40
5 – 10%	9
10 – 15%	3
15+%	3
Invalid Data	0
Not applicable	0

PERCENTAGE OF SEWER SERVICE BILLS LIENED

No answer	8
0 – 5%	31
5 – 10%	15
10 – 15%	3
15+%	3
Invalid Data	0
Not applicable	4

COMMUNITIES WITH SHORTFALLS DUE TO LOWER THAN PROJECTED WATER USE (WATER FUNDS)
--

No answer	4
Yes	18
No	38
Invalid Data	0
Not applicable	0

COMMUNITIES WITH SHORTFALLS DUE TO LOWER THAN PROJECTED WATER USE (SEWER FUNDS)
--

No answer	6
Yes	14
No	36
Invalid Data	0
Not applicable	4

MWRA CHARGES AS A PERCENTAGE OF TOTAL EXPENSES (WATER FUNDS)

No answer	5
0 – 25%	15
25 – 50%	16
50 – 75%	21
75+%	3
Not applicable	0

MWRA CHARGES AS A PERCENTAGE OF TOTAL EXPENSES (SEWER FUNDS)

No answer	7
0 – 25%	11
25 – 50%	7
50 – 75%	17
75+%	14
Not applicable	4

NUMBER OF MILES OF WATER PIPELINE REHABILITATED OR REPLACED IN FY16

No answer	2
Less than 1	26
1 – 3 miles	22
3 – 6 miles	7
6+ miles	3
Invalid Data	0
Not applicable	0

NUMBER OF MILES OF SEWER PIPELINE REHABILITATED OR REPLACED IN FY16

No answer	4
Less than 1	28
1 – 3 miles	16
3 – 6 miles	4
6+ miles	4
Invalid Data	0
Not applicable	4

ACTUAL WATER CAPITAL NEEDS OVER NEXT FIVE YEARS

No answer	2
\$0 – \$10 million	36
\$10 – \$20 million	14
\$20 – \$50 million	3
\$50+ million	5
Invalid Data	0
Not applicable	0

ANTICIPATED WATER CAPITAL SPENDING OVER NEXT FIVE YEARS

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

ACTUAL SEWER CAPITAL NEEDS OVER NEXT FIVE YEARS
--

No answer	5
\$0 – \$10 million	29
\$10 – \$20 million	9
\$20 – \$50 million	7
\$50+ million	6
Invalid Data	0
Not applicable	4

ANTICIPATED SEWER CAPITAL SPENDING OVER NEXT FIVE YEARS
--

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

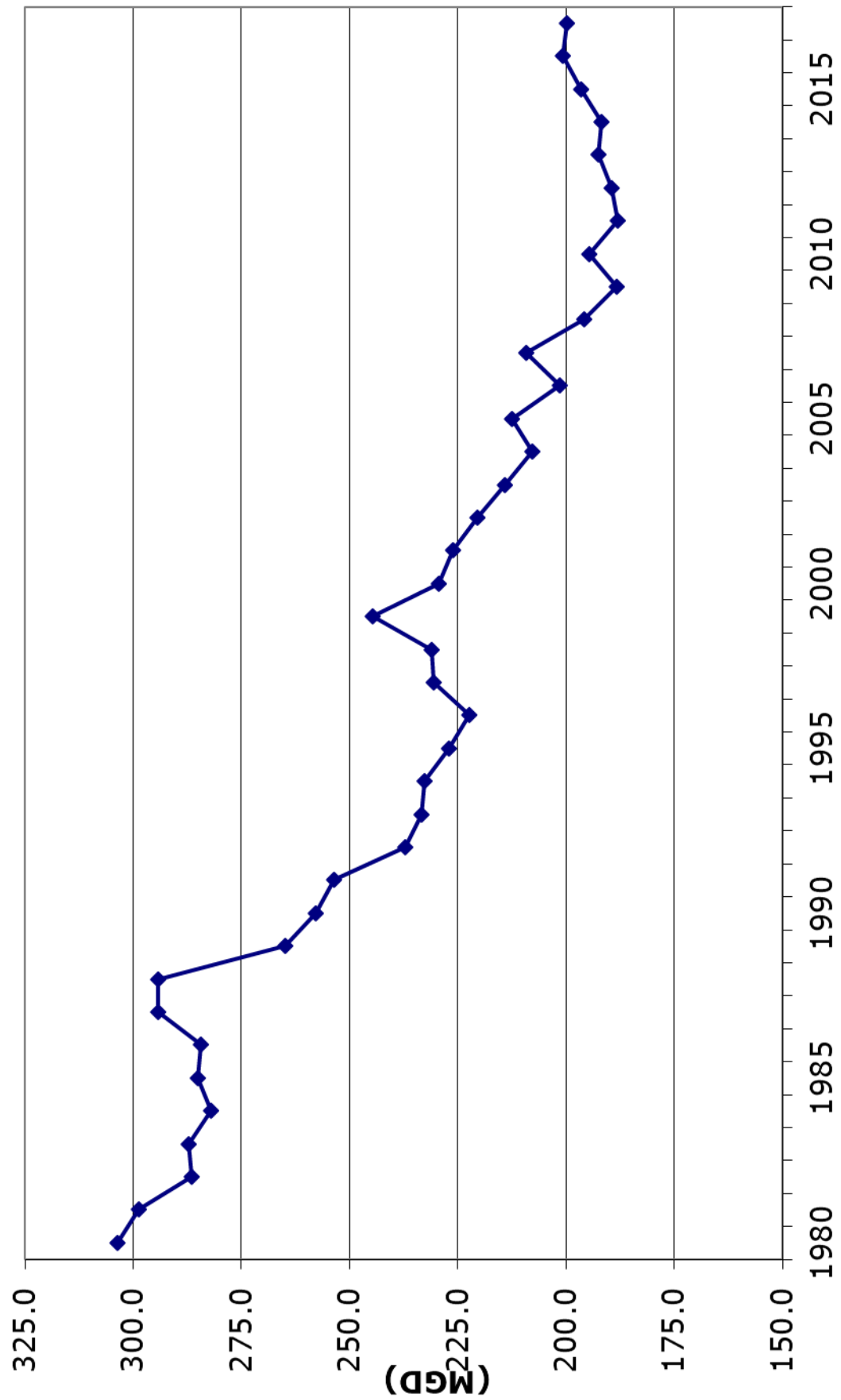
HOW COMMUNITIES RECOVER STORMWATER COSTS (SEE APPENDIX G)
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No answer	1
Water/Sewer Rates	12
Special Assessment	4
DPW Budget	40
Invalid Data	0
Not applicable	2
Other	1

APPENDIX F

MWRA Water System Sales 1980 – 2017

MWRA System Sales (Calendar Year 1980 through 2017)



APPENDIX G

2018 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.

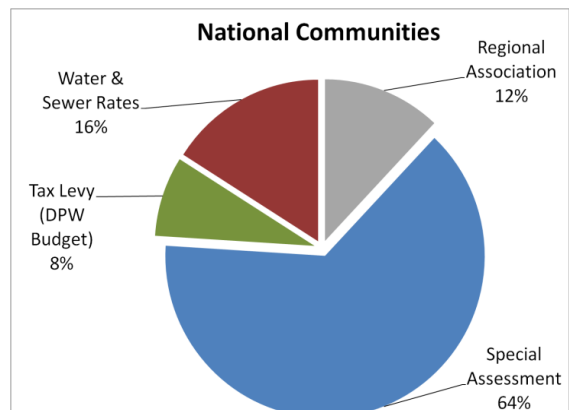
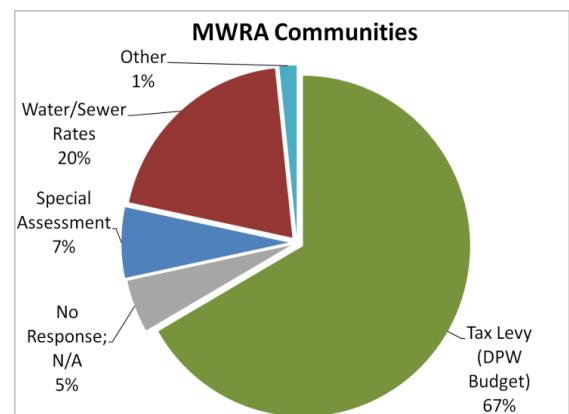
Due to these most recent MS4 permit revisions and new NPDES permits being issued, municipalities across the United States are facing increased needs for funding of new stormwater infrastructure and ongoing infrastructure maintenance and rehabilitation. New challenges in stormwater management include 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)
NATIONAL COMMUNITIES			
Austin, TX	IA (Acre)	Online Calculator - www.AustinTexas.gov	
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 - www.Phila.gov	
Portland, ME	Tier (ERU)	\$12.00/mth	\$144
Sait 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/mth	\$267
MWRA COMMUNITIES			
Chicopee, MA	Flat	\$25.00/qtr	\$100
Milton, MA	Tier (Sq Ft)	\$44/year	\$44
Newton, MA	Flat	\$18.75.00/qtr	\$25
Reading, MA	Flat	\$10.00/qtr	\$40
MA. COMMUNITIES (NON-MWRA)			
Fall River, MA	Flat	\$140.00/year	\$140
Northampton, MA	Tier (Sq Ft)	\$63.94/year	\$64
Westfield, MA	Flat	\$20.00/year	\$20

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