



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

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## **MWRA ADVISORY BOARD**

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

**2011**



***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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<http://www.mwraadvisoryboard.com>

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# **MWRA ADVISORY BOARD**

**2011**

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

*Joseph E. Favaloro*  
Executive Director



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## Introduction

This is the twenty-fifth “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 Matthew Romero and Mary Ann McClellan 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@mwra.state.ma.us](mailto:mwra.ab@mwra.state.ma.us) 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. These charges are prorated based on the 2010 United States Census information and calendar year 2010 domestic water usage by community, provided by local water departments to the Massachusetts Department of Environmental Protection (DEP). Prior to 2009, this information had been presented in Appendix C of the survey.

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.** In addition, a graph that tracks the actual consumption numbers provided by each community to DEP against each community’s MWRA assessment has been included on each community’s entry.

## The MWRA Advisory Board

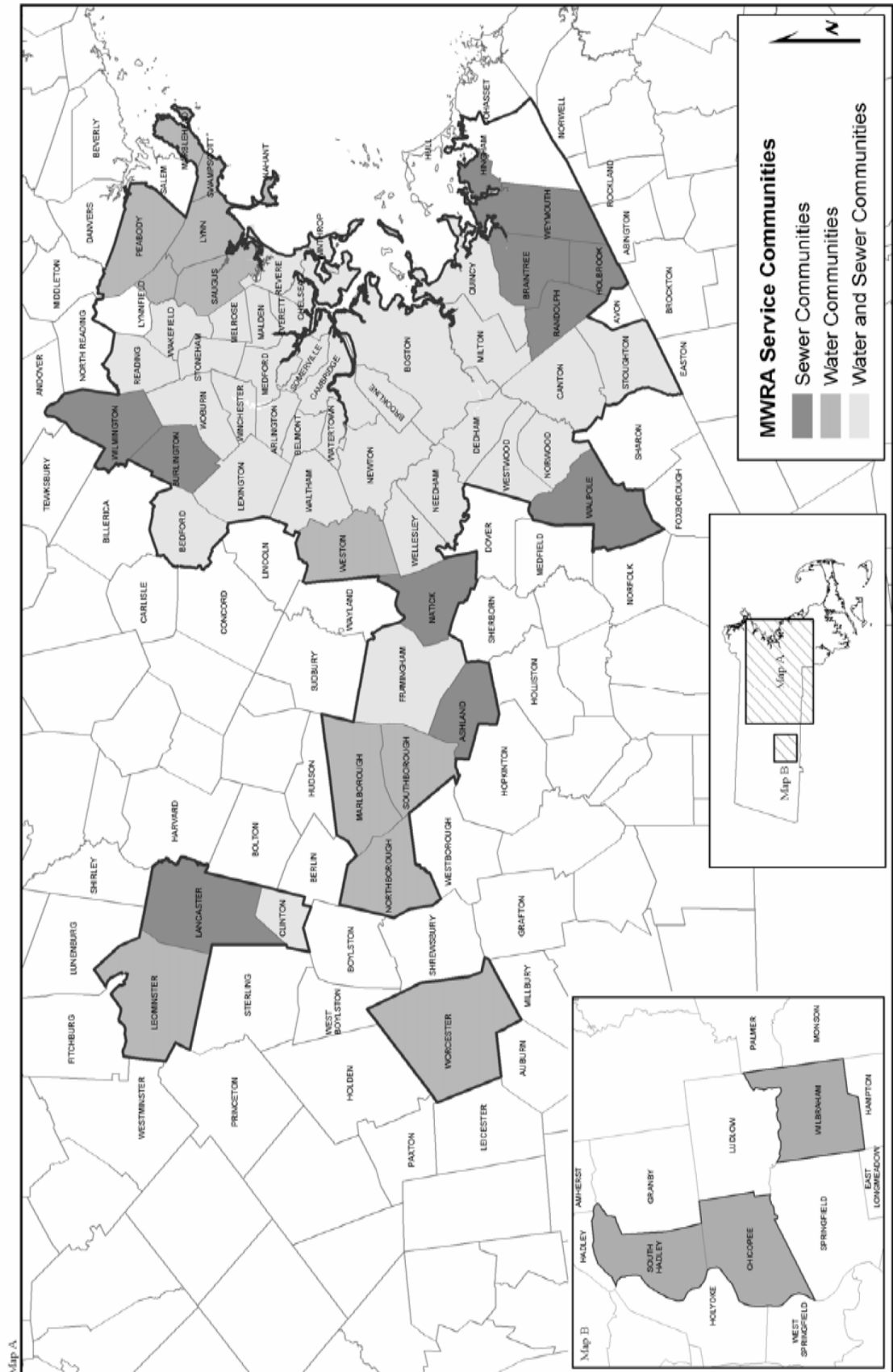
The MWRA Advisory Board was created by the Massachusetts Legislature in 1984 to represent the interests of Massachusetts Water Resources Authority service area communities. The Advisory Board includes one representative from each of the sixty communities that receive water and/or sewer services from 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.

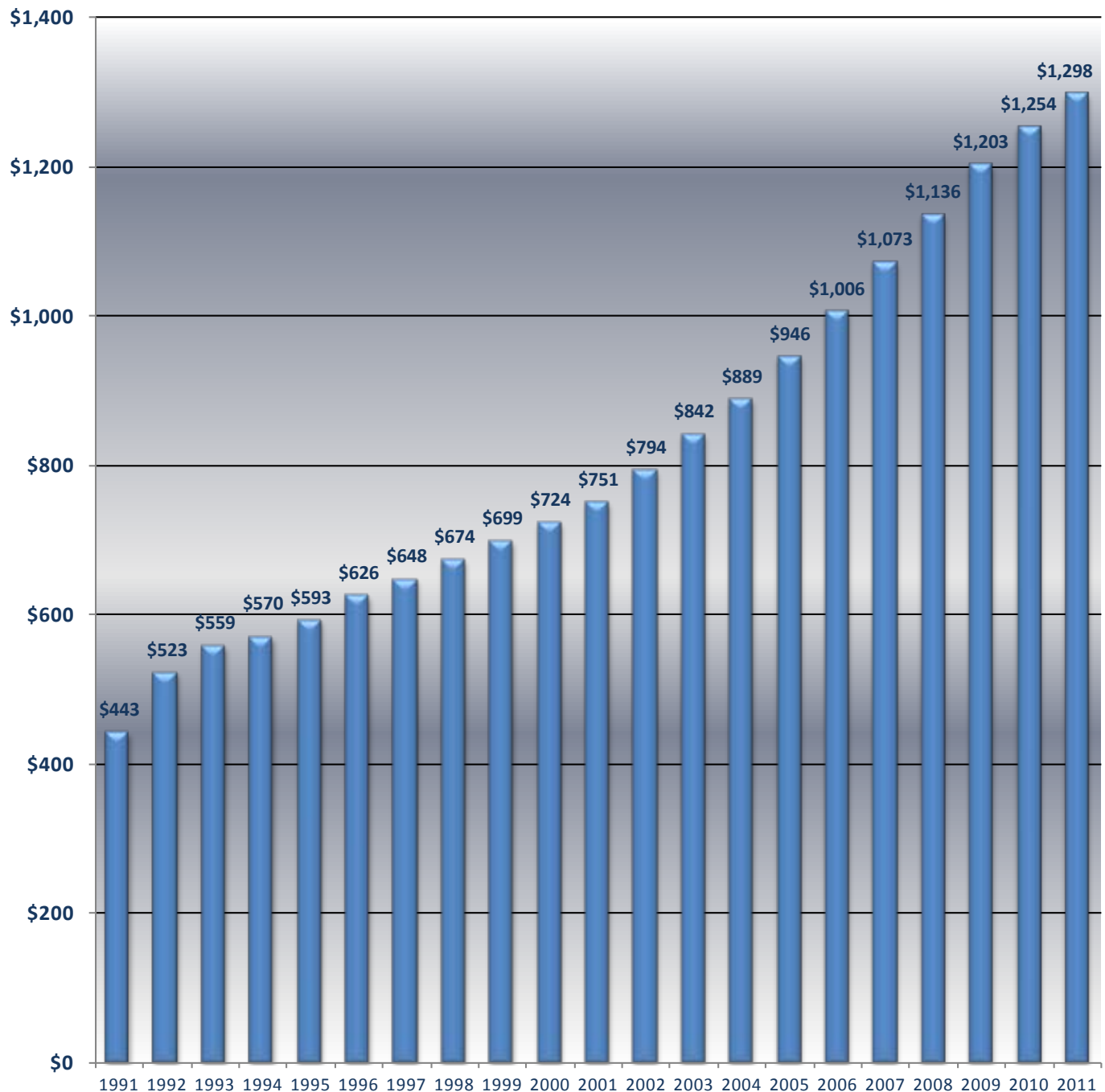
- Serving as a watchdog over the MWRA to ensure proper management and budgetary control;
- Making recommendations on annual expense budgets, capital improvement programs, business planning, and user charges;
- Holding hearings on matters relating to the MWRA and making subsequent recommendations to the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

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# MWRA COMMUNITY 2011 WATER AND SEWER CHARGES

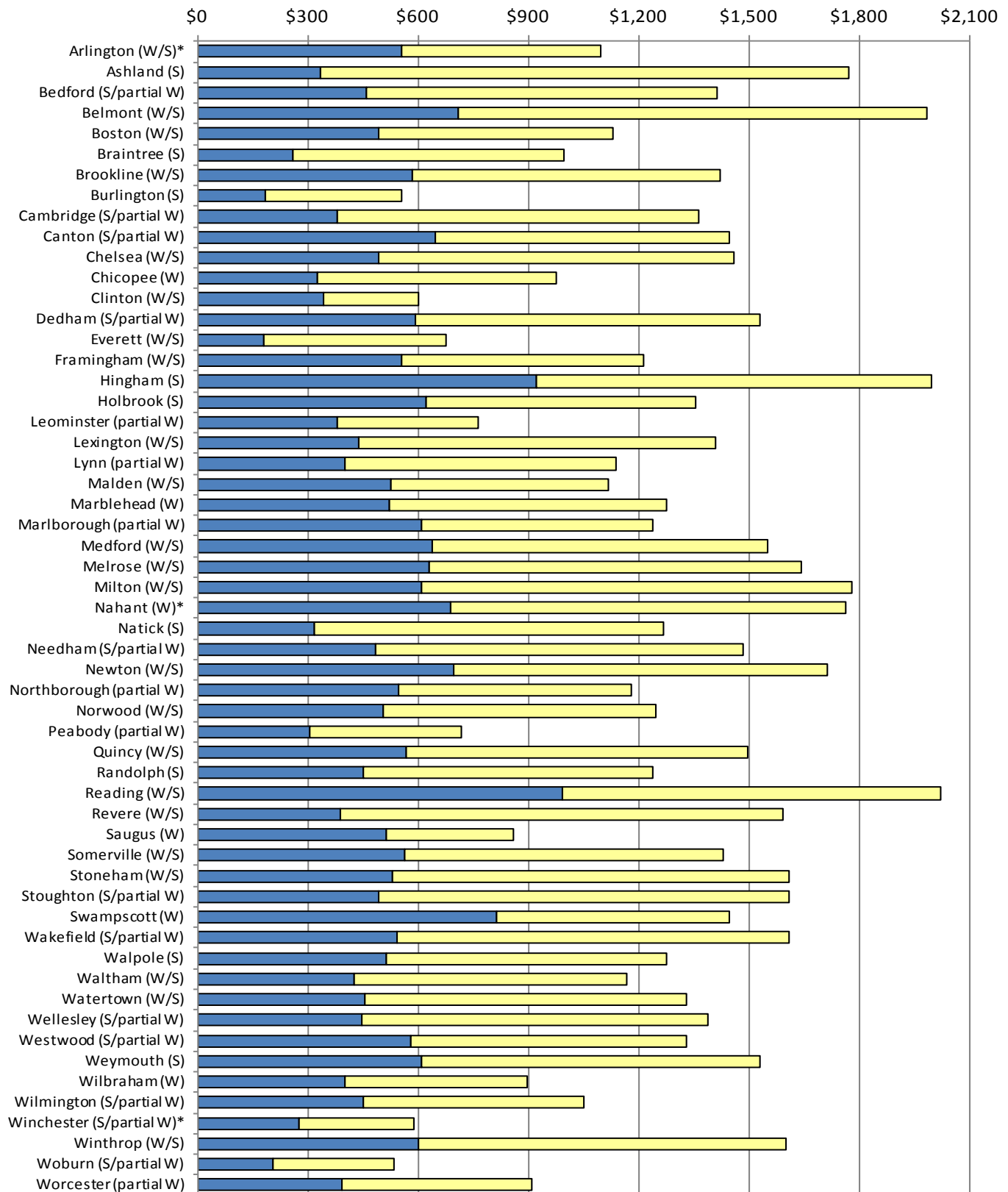


# Combined Annual Water & Sewer Charges in MWRA Communities 1991 – 2011 (Consumption at 120 HCF $\approx$ 90 kgal)





# 2011 Combined Retail Water & Sewer Community Charge Comparisons (Consumption at 120 HCF $\approx$ 90 kgal)



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

MWRA SYSTEMWIDE SUMMARY DATA 2011		
	2010	2011
Avg. combined water and sewer cost	\$1,253.93	\$1,298.18
Percent change from prior year	4.2%	3.5%
<b><u>WATER BILLING FREQUENCY</u></b>		
Semi-Annual	11	11
Tri-Annual	2	2
Quarterly	41	41
Bi-Monthly	1	1
Monthly	5	5
<b><u>WATER RATE STRUCTURE</u></b>		
Ascending Block with Base/Minimum Charge	31	33
Ascending Block only	11	11
Flat Rate with Base/Minimum Charge	7	6
Flat Rate only	10	9
Fixed Fee	1	1
<b><u>SENIOR CITIZEN/LOW-INCOME DISCOUNTS</u></b>		
Yes	27	28
No (or n/a)	33	32
<b><u>DEBT SERVICE EXCLUSION</u></b>		
	3	3
<b><u>CHANGES IN COMBINED WATER AND SEWER CHARGES</u></b>		
Decrease	2	2
No change	15	25
0% to 10% increase	35	28
10% to 20% increase	8	4
20% to 30% increase	0	1
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  
2011**

	Water	Sewer
Arlington (W/S)*	\$554.24	\$542.40
Ashland (S)	-	1436.80
Bedford (S/partial W)	459.00	893.00
Belmont (W/S)	709.72	1270.40
Boston (W/S)	493.23	634.42
Braintree (S)	-	734.40
Brookline (W/S)	583.60	837.40
Burlington (S)	-	371.50
Cambridge (S/partial W)	380.00	980.00
Canton (S/partial W)	647.20	799.40
Chelsea (W/S)	492.00	963.60
Chicopee (W)	324.00	-
Clinton (W/S)	343.60	257.70
Dedham (S/partial W)	592.44	937.28
Everett (W/S)	1120	493.20
Framingham (W/S)	552.12	661.44
Hingham (S)	-	1074.00
Holbrook (S)	-	730.80
Leominster (partial W)	378.60	-
Lexington (W/S)	436.80	970.80
Lynn (partial W)	400.80	-
Lynnfield (W)	337.60	-
Malden (W/S)	526.08	588.24
Marblehead (W)	521.00	-
Marlborough (partial W)	609.60	-
Medford (W/S)	637.20	912.00
Melrose (W/S)	630.00	1009.80
Milton (W/S)	608.16	1168.80
Nahant (W)*	688.80	-
Natick (S)	-	951.20
Needham (S/partial W)	483.00	997.80
Newton (W/S)	693.60	1018.80
Northborough (partial W)	547.08	-
Norwood (W/S)	504.72	741.10
Peabody (partial W)	306.00	-
Quincy (W/S)	565.20	928.20
Randolph (S)	-	785.80
Reading (W/S)	992.40	1028.40
Revere (W/S)	386.40	1206.00
Saugus (W)	513.20	-
Somerville (W/S)	564.00	864.48
South Hadley (W)	400.40	-
Southborough (W)	410.32	-
Stoneham (W/S)	528.00	1080.00
Stoughton (S/partial W)	491.64	1117.20
Swampscott (W)	812.00	-
Wakefield (S/partial W)	540.00	1067.04
Walpole (S)	-	762.05
Waltham (W/S)	422.88	742.56
Watertown (W/S)	455.36	836.40
Wellesley (S/partial W)	445.68	940.80
Weston (W)	279.00	-
Westwood (S/partial W)	580.44	748.00
Weymouth (S)	-	920.84
Wilbraham (W)	402.00	-
Wilmington (S/partial W)	-	598.80
Winchester (S/partial W)*	275.60	313.20
Winthrop (W/S)	598.80	998.40
Woburn (S/partial W)	205.00	328.00
Worcester (partial W)	390.00	-
<b>AVERAGE</b>	<b>\$497.59</b>	<b>\$846.42</b>
<b>Percent change</b>	<b>2.6%</b>	<b>3.6%</b>

Water and Sewer Charges are based on an annual water consumption of 120 HCF ≈ 90 kgal.  
 (\*) Indicates communities that utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).

## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA 2011

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)*	\$554.24	\$542.40	\$1,096.64	7.3%
Ashland (S)	\$333.60	\$1,436.80	\$1,770.40	8.3%
Bedford (S/partial W)	\$459.00	\$953.00	\$1,412.00	-3.0%
Belmont (W/S)	\$709.72	\$1,270.40	\$1,980.12	4.6%
Boston (W/S)	\$493.23	\$634.42	\$1,127.65	2.9%
Braintree (S)	\$259.00	\$734.40	\$993.40	0.0%
Brookline (W/S)	\$583.60	\$837.40	\$1,421.00	0.4%
Burlington (S)	\$181.50	\$371.50	\$553.00	0.0%
Cambridge (S/partial W)	\$380.00	\$980.00	\$1,360.00	0.0%
Canton (S/partial W)	\$647.20	\$799.40	\$1,446.60	6.5%
Chelsea (W/S)	\$492.00	\$963.60	\$1,455.60	7.5%
Chicopee (W)	\$324.00	\$650.75	\$974.75	5.8%
Clinton (W/S)	\$343.60	\$257.70	\$601.30	0.0%
Dedham (S/partial W)	\$592.44	\$937.28	\$1,529.72	4.4%
Everett (W/S)	\$181.20	\$493.20	\$674.40	0.0%
Framingham (W/S)	\$552.12	\$661.44	\$1,213.56	10.7%
Hingham (S)	\$918.60	\$1,074.00	\$1,992.60	2.8%
Holbrook (S)	\$620.40	\$730.80	\$1,351.20	9.5%
Leominster (partial W)	\$378.60	\$385.40	\$764.00	0.0%
Lexington (W/S)	\$436.80	\$970.80	\$1,407.60	11.6%
Lynn (partial W)	\$400.80	\$736.92	\$1,137.72	0.0%
Malden (W/S)	\$526.08	\$588.24	\$1,114.32	11.3%
Marblehead (W)	\$521.00	\$752.00	\$1,273.00	0.0%
Marlborough (partial W)	\$609.60	\$628.80	\$1,238.40	21.6%
Medford (W/S)	\$637.20	\$912.00	\$1,549.20	0.0%
Melrose (W/S)	\$630.00	\$1,009.80	\$1,639.80	3.3%
Milton (W/S)	\$608.16	\$1,168.80	\$1,776.96	3.5%
Nahant (W)*	\$688.80	\$1,071.60	\$1,760.40	7.8%
Natick (S)	\$316.00	\$951.20	\$1,267.20	0.0%
Needham (S/partial W)	\$483.00	\$997.80	\$1,480.80	0.0%
Newton (W/S)	\$693.60	\$1,018.80	\$1,712.40	7.7%
Northborough (partial W)	\$547.08	\$632.60	\$1,179.68	0.0%
Norwood (W/S)	\$504.72	\$741.10	\$1,245.82	0.0%
Peabody (partial W)	\$306.00	\$409.80	\$715.80	0.0%
Quincy (W/S)	\$565.20	\$928.20	\$1,493.40	0.0%
Randolph (S)	\$451.80	\$785.80	\$1,237.60	6.4%
Reading (W/S)	\$992.40	\$1,028.40	\$2,020.80	2.2%
Revere (W/S)	\$386.40	\$1,206.00	\$1,592.40	0.0%
Saugus (W)	\$513.20	\$344.00	\$857.20	5.0%
Somerville (W/S)	\$564.00	\$864.48	\$1,428.48	3.5%
Stoneham (W/S)	\$528.00	\$1,080.00	\$1,608.00	3.9%
Stoughton (S/partial W)	\$491.64	\$1,117.20	\$1,608.84	5.0%
Swampscott (W)	\$812.00	\$633.80	\$1,445.80	0.0%
Wakefield (S/partial W)	\$540.00	\$1,067.04	\$1,607.04	3.9%
Walpole (S)	\$513.12	\$762.05	\$1,275.17	-3.5%
Waltham (W/S)	\$422.88	\$742.56	\$1,165.44	14.2%
Watertown (W/S)	\$455.36	\$871.20	\$1,326.56	0.0%
Wellesley (S/partial W)	\$445.68	\$940.80	\$1,386.48	6.1%
Westwood (S/partial W)	\$580.44	\$748.00	\$1,328.44	4.2%
Weymouth (S)	\$608.88	\$920.84	\$1,529.72	2.9%
Wilbraham (W)	\$402.00	\$492.00	\$894.00	2.8%
Wilmington (S/partial W)	\$449.60	\$598.80	\$1,048.40	0.0%
Winchester (S/partial W)*	\$275.60	\$313.20	\$588.80	0.0%
Winthrop (W/S)	\$598.80	\$998.40	\$1,597.20	0.0%
Woburn (S/partial W)	\$205.00	\$328.00	\$533.00	0.0%
Worcester (partial W)	\$390.00	\$518.40	\$908.40	5.2%
<b>AVERAGE</b>	<b>\$501.87</b>	<b>\$796.31</b>	<b>\$1,298.18</b>	<b>3.5%</b>

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 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge per bill \$19.72 (for both)  
 0 – 200 HCF/fiscal year \$ 4.29/HCF  
 >200 HCF \$ 6.32 "

Billing Frequency: Semi-Annually

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge per bill n/a  
 First 1,000 HCF/fiscal year \$4.52/HCF  
 >1,000 HCF \$9.05 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$554.24
Sewer	\$542.40
Combined	\$1,096.64
% change from 2010	7.3%

Annual Cost Actual Community Usage (67.7 HCF = DEP Data Provided by Community)	
Water	\$329.87
Sewer	\$306.00
Combined	\$635.88

### Commercial Water Rates:

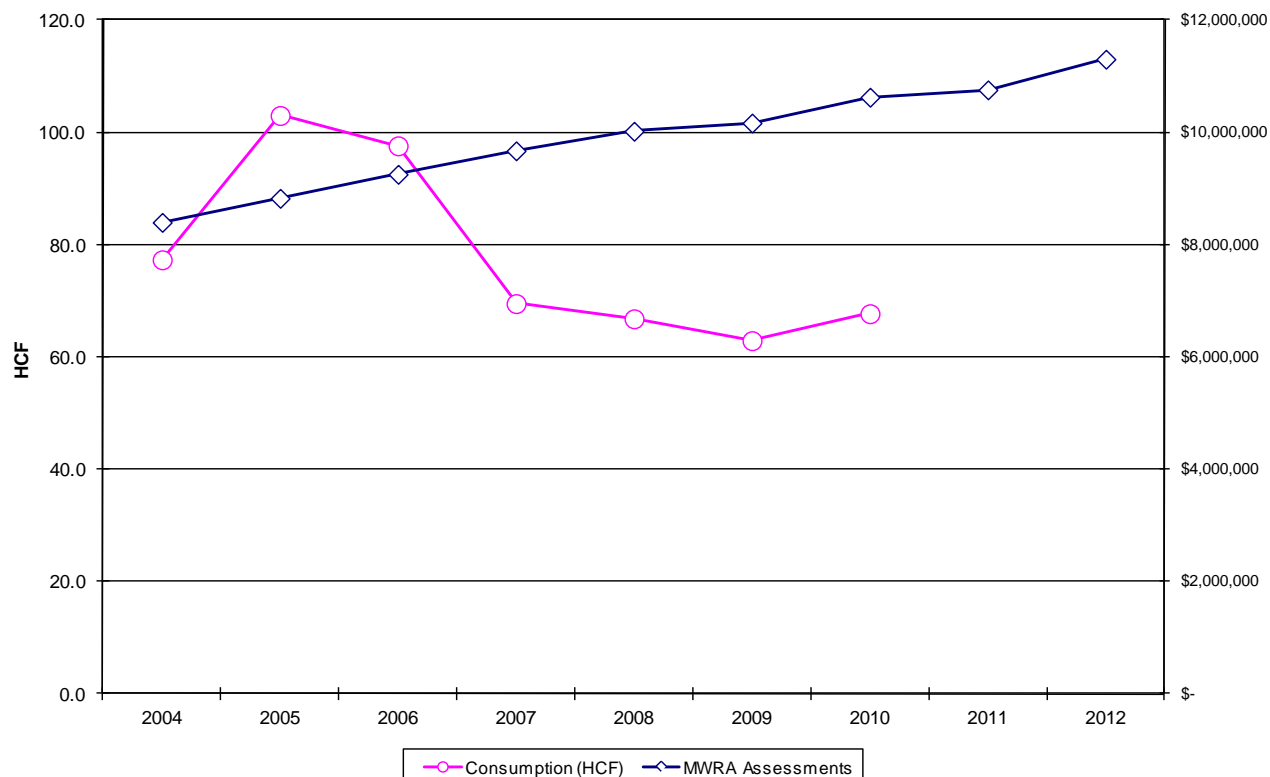
Same as residential

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

Same as residential

## Actual Water Usage versus MWRA Assessments



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

## Ashland (S)

**Residential Water Rates:**

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

Base charge per bill	\$30.00
0 – 20 HCF	\$ 2.08/HCF
>20 - 70 HCF	\$ 2.38 "
>70 - 150 HCF	\$ 3.09 "
>150 - 300 HCF	\$ 3.95 "
>300 HCF	\$ 4.35 "

Billing Frequency: Semi-Annually

**Residential Sewer Rates:**

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

Base charge per bill	\$30.00
0 – 20 HCF	\$10.86/HCF
>20 - 70 HCF	\$11.78 "
>70 - 150 HCF	\$12.67 "
>150 - 300 HCF	\$13.57 "
>300 HCF	\$16.28 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$333.60
Sewer	\$1,436.80
Combined	\$1,770.40
% change from 2010	8.3%

Annual Cost Actual Community Usage (72.0 HCF = DEP Data Provided by Community)	
Water	\$219.36
Sewer	\$871.36
Combined	\$1,090.72

**Commercial Water Rates:**

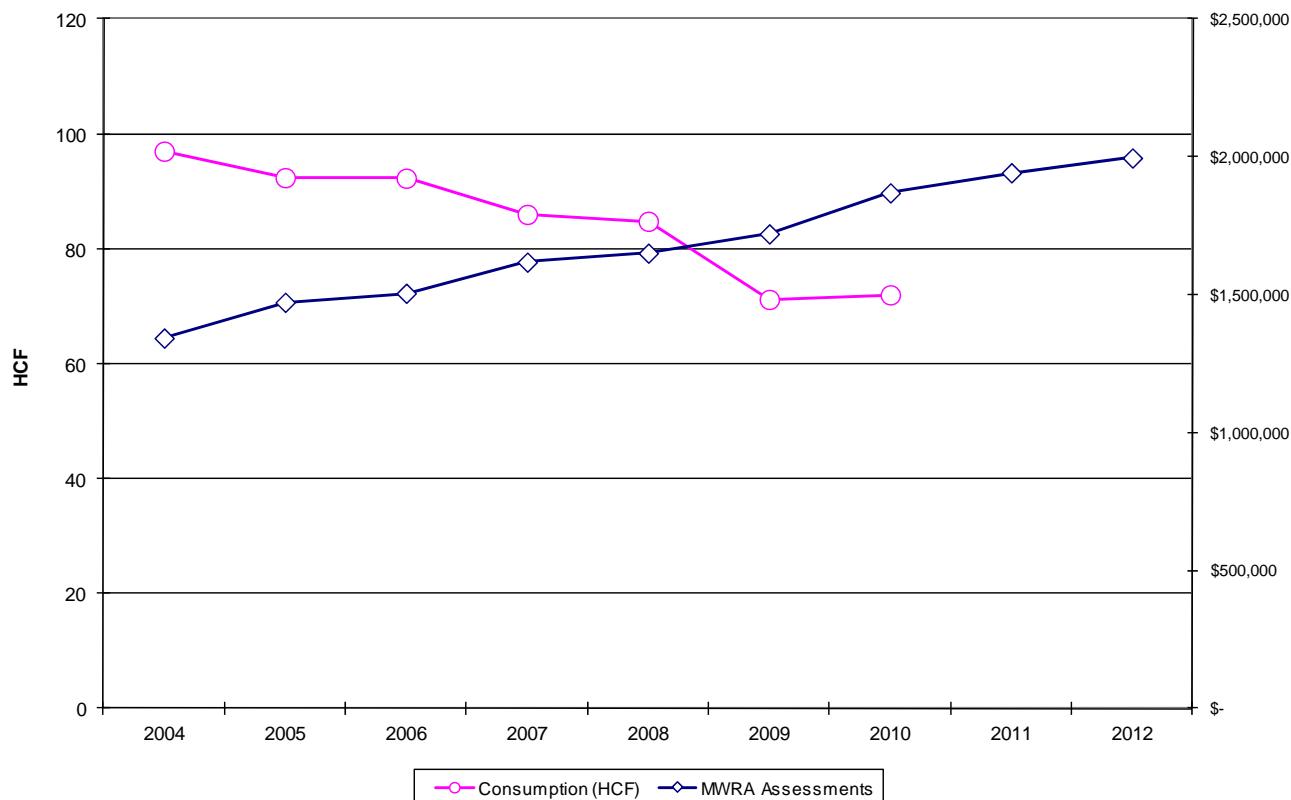
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: 20% water, 20% sewer

### Actual Water Usage versus MWRA Assessments



## Bedford (S/partial W)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: General

Base charge per bill \$17.50  
 0 – 20 HCF \$ 1.00/HCF  
 > 20 HCF \$ 4.80 "

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: General

Base charge per bill \$22.50  
 0 – 20 HCF \$ 3.30/HCF  
 > 20 HCF \$ 9.70 "

Based on 100% of water usage.

Billing Frequency: Residential: Semi-Annually Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$459.00
Sewer	\$953.00
Combined	\$1,412.00
% change from 2010	-3.0%

Annual Cost Actual Community Usage (81.5 HCF = DEP Data Provided by Community)	
Water	\$274.20
Sewer	\$579.55
Combined	\$853.75

### Commercial Water Rates:

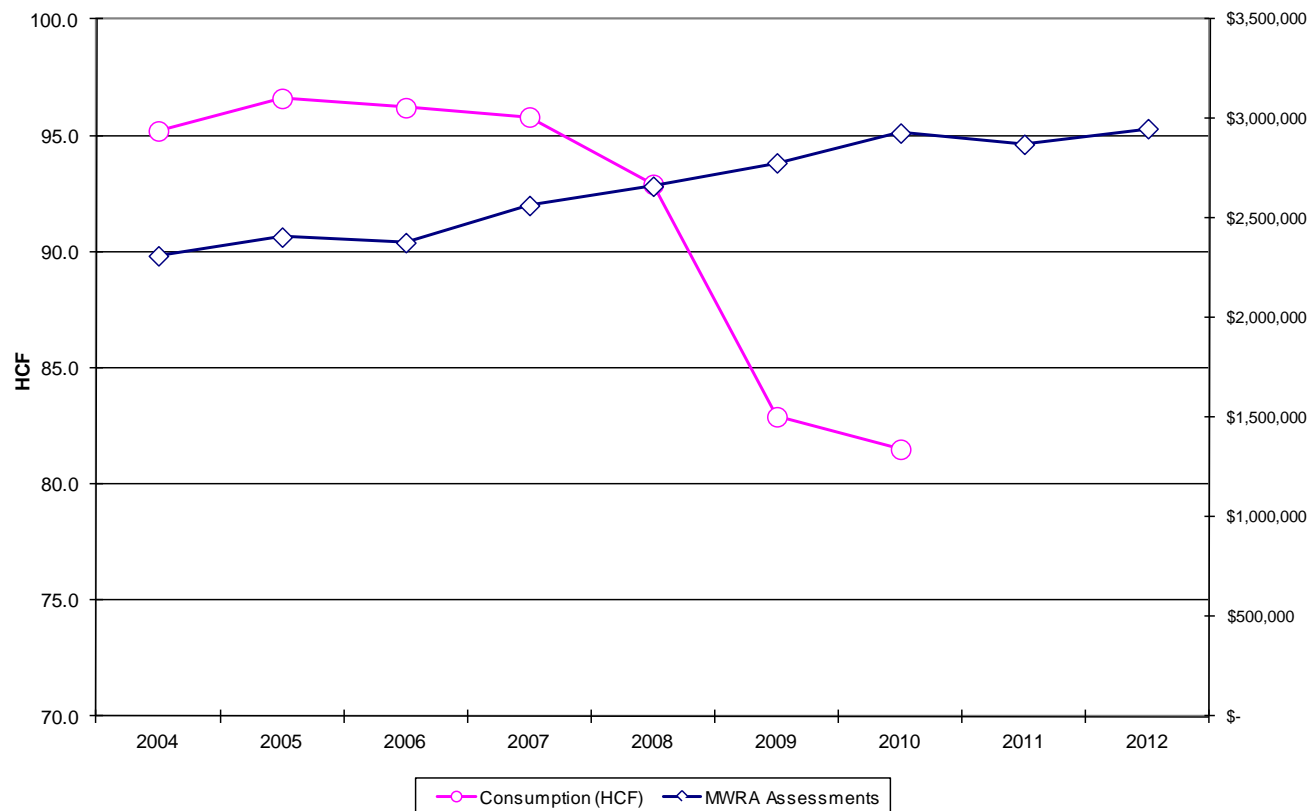
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Belmont (W/S)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge per bill \$16.93  
 0 – 30 HCF \$ 5.35/HCF  
 >30 \$ 6.15 "

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge per bill \$14.30  
 All units \$10.11/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$709.72
Sewer	\$1,270.40
Combined	\$1,980.12
% change from 2010	4.6%

Annual Cost Actual Community Usage (94.7 HCF = DEP Data Provided by Community)	
Water	\$574.37
Sewer	\$1,014.62
Combined	\$1,588.98

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: \$3.75/HCF (Water) \$7.08/HCF (Sewer) based on property tax discount eligibility.

### Actual Water Usage versus MWRA Assessments





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

### Residential Water Rates:

Last adjusted:	January 2011
Next adjustment scheduled:	January 2012
Fund:	Enterprise
First 19 CF/Day	\$4.031/HCF
Next 20 CF	\$4.219 "
Next 50 CF	\$4.394 "
Next 260 CF	\$4.672 "
Next 950 CF	\$4.875 "
Over 1,299 CF	\$5.047 "

Billing Frequency: Monthly

### Residential Sewer Rates:

Last adjusted:	January 2011
Next adjustment scheduled:	January 2012
Fund:	Enterprise
First 19 CF/Day	\$5.219/HCF
Next 20 CF	\$5.380 "
Next 50 CF	\$5.488 "
Next 260 CF	\$5.790 "
Next 950 CF	\$6.110 "
Over 1,299 CF	\$6.321 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$493.23
Sewer	\$634.42
Combined	\$1,127.65
% change from 2010	2.9%

Annual Cost Actual Community Usage (56.7 HCF = DEP Data Provided by Community)	
Water	\$220.70
Sewer	\$285.74
Combined	\$506.44

### Commercial Water Rates:

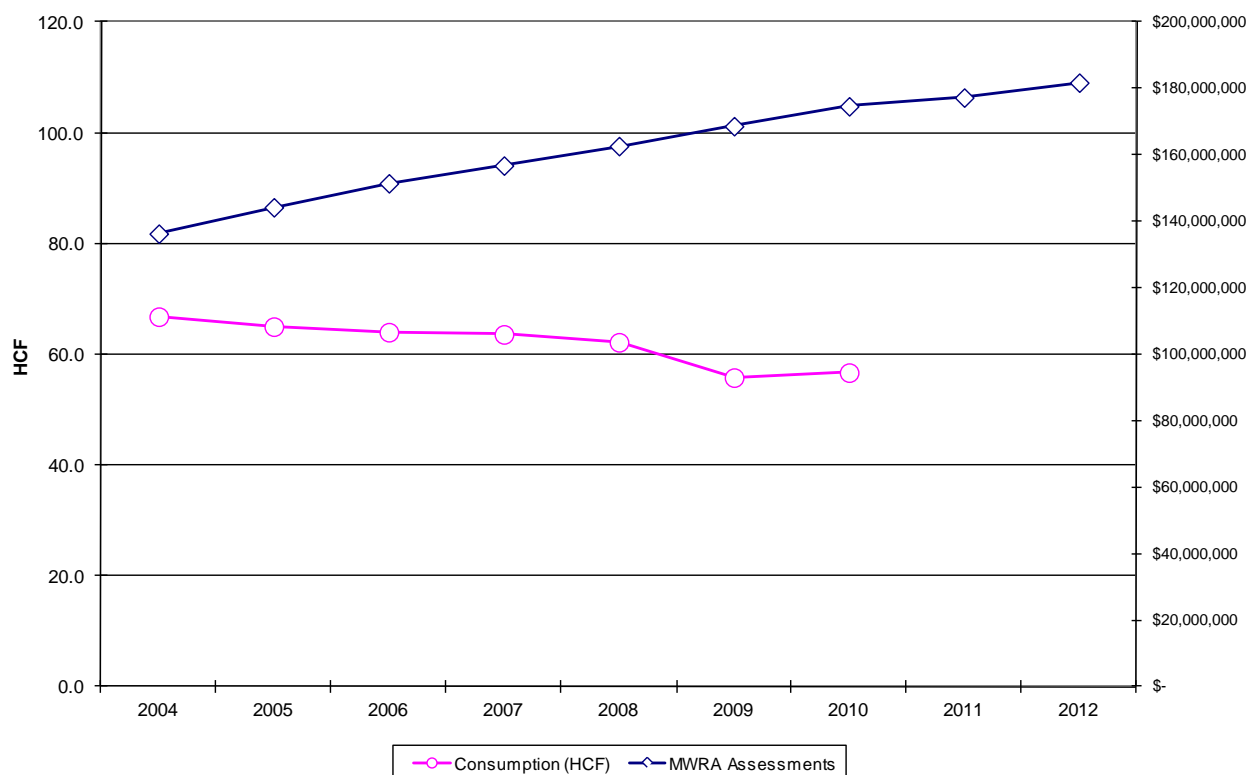
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 25% Senior/Disabled Discount on water charges only.

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Braintree (S)

### Residential Water Rates:

Last adjusted: July 2007  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Base charge per bill: \$11.25  
 0 – 5 HCF \$ 1.25/HCF  
 >5 – 35 HCF \$ 1.89 "  
 >35 – 200 HCF \$ 3.41 "  
 >200 HCF \$ 4.86 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2007  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Base charge per bill: \$11.25  
 0 – 5 HCF \$ 4.72/HCF  
 >5 – 35 HCF \$ 5.95 "  
 >35 – 200 HCF \$ 9.32 "  
 >200 HCF \$ 10.24 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$259.00
Sewer	\$734.40
Combined	\$993.40
% change from 2010	0.0%

Annual Cost Actual Community Usage (84.6 HCF = DEP Data Provided by Community)	
Water	\$192.09
Sewer	\$523.77
Combined	\$715.86

### Commercial Water Rates:

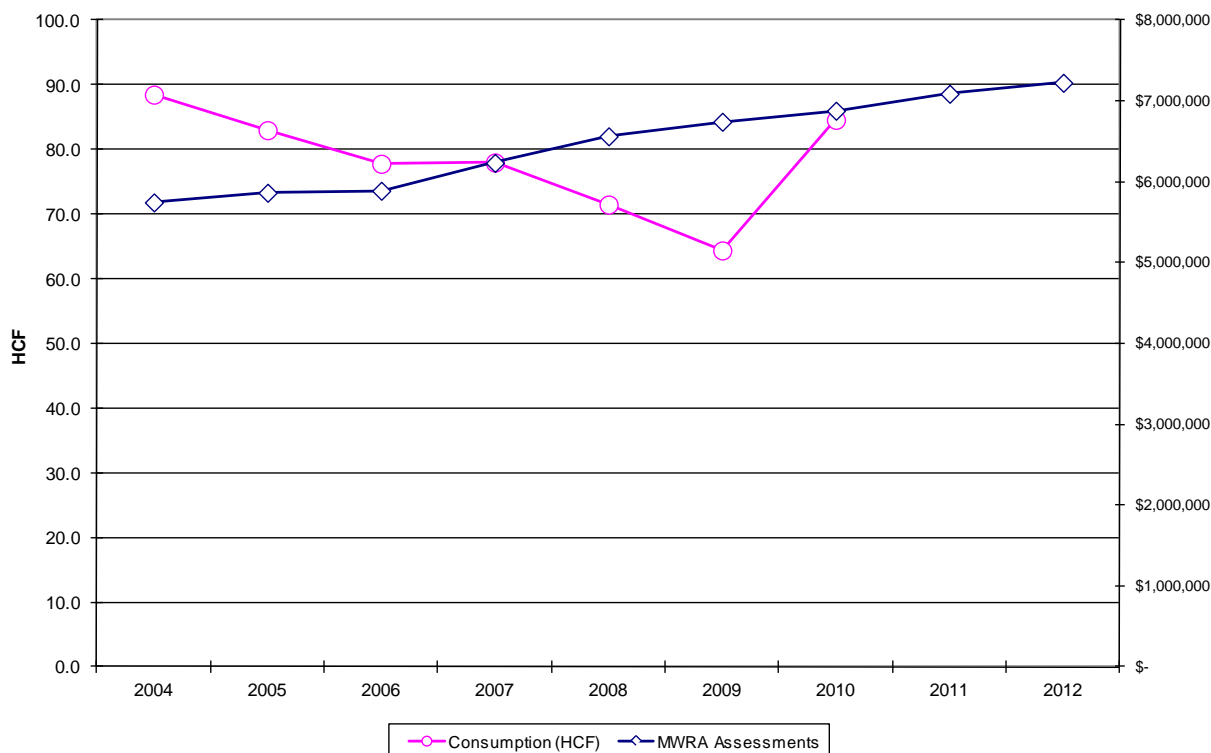
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



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

## Brookline (W/S)

### Residential Water Rates:

Last adjusted: July 1, 2011  
 Next adjustment scheduled: July 1, 2012  
 Fund: Enterprise

Base charge \$25.00  
 0 – 7 HCF \$1.50/HCF  
 >7 \$4.80 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 1, 2011  
 Next adjustment scheduled: July 1, 2012  
 Fund: Enterprise

Base charge \$25.00  
 0 – 7 HCF \$3.50/HCF  
 >7 \$6.95 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$583.60
Sewer	\$837.40
Combined	\$1,421.00
% change from 2010	0.4%

Annual Cost Actual Community Usage (71.5 HCF = DEP Data Provided by Community)	
Water	\$350.80
Sewer	\$500.33
Combined	\$851.13

### Commercial Water Rates:

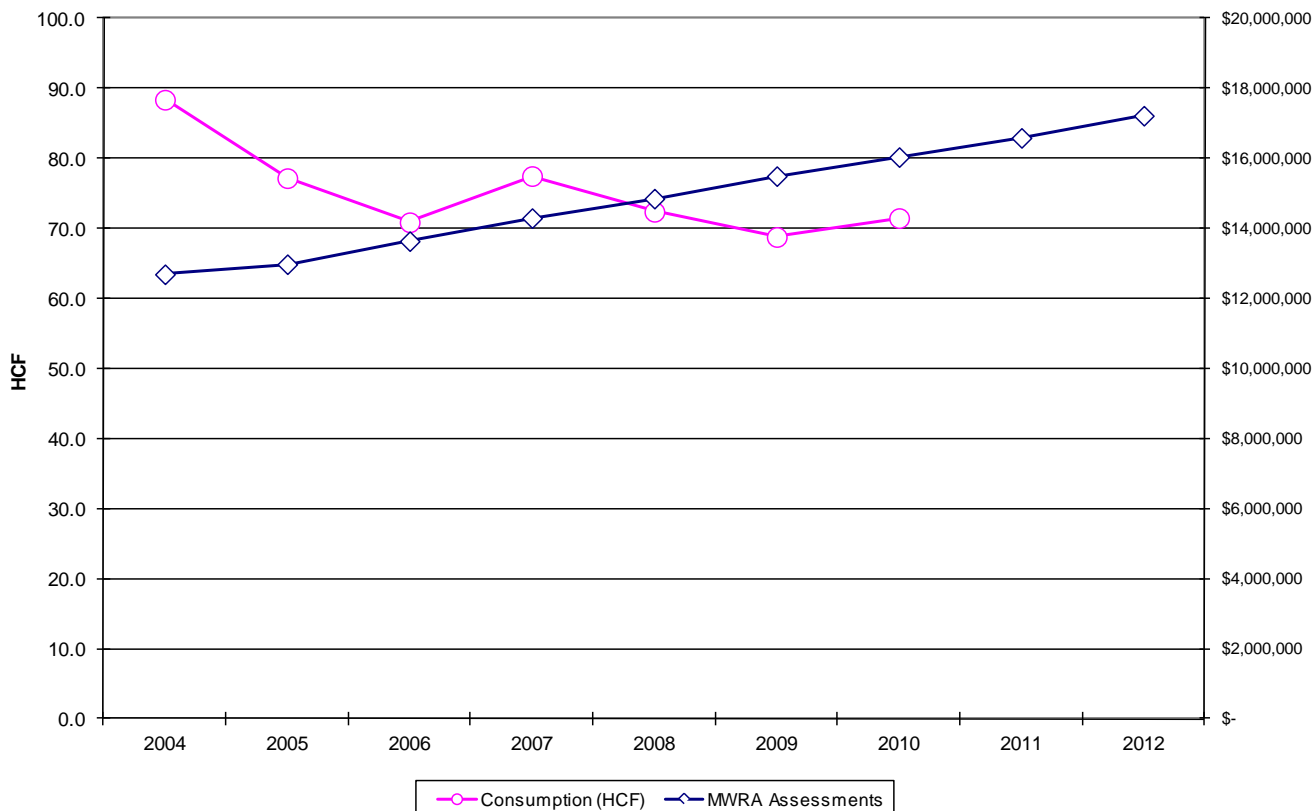
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Burlington (S)

### Residential Water Rates:

Last adjusted: October 2010  
 Next adjustment scheduled: Unknown  
 Fund: General

First 20 kgal	\$37.00
>20 – 30 kgal	\$ 2.00/kgal
>30 – 50 kgal	\$ 2.25 "
>50 – 70 kgal	\$ 3.00 "
>70 – 90 kgal	\$ 3.75 "
>90 kgal	\$ 4.50 "

### Residential Sewer Rates:

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

First 20 kgal	\$37.00
>20 – 30 kgal	\$ 5.50/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: Residential: Semi-annually Commercial: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$181.50
Sewer	\$371.50
Combined	\$553.00
% change from	0.0%
2010	

Annual Cost Actual Community Usage (69.8 HCF = DEP Data Provided by Community)	
Water	\$98.42
Sewer	\$141.16
Combined	\$239.58

### Commercial Water Rates:

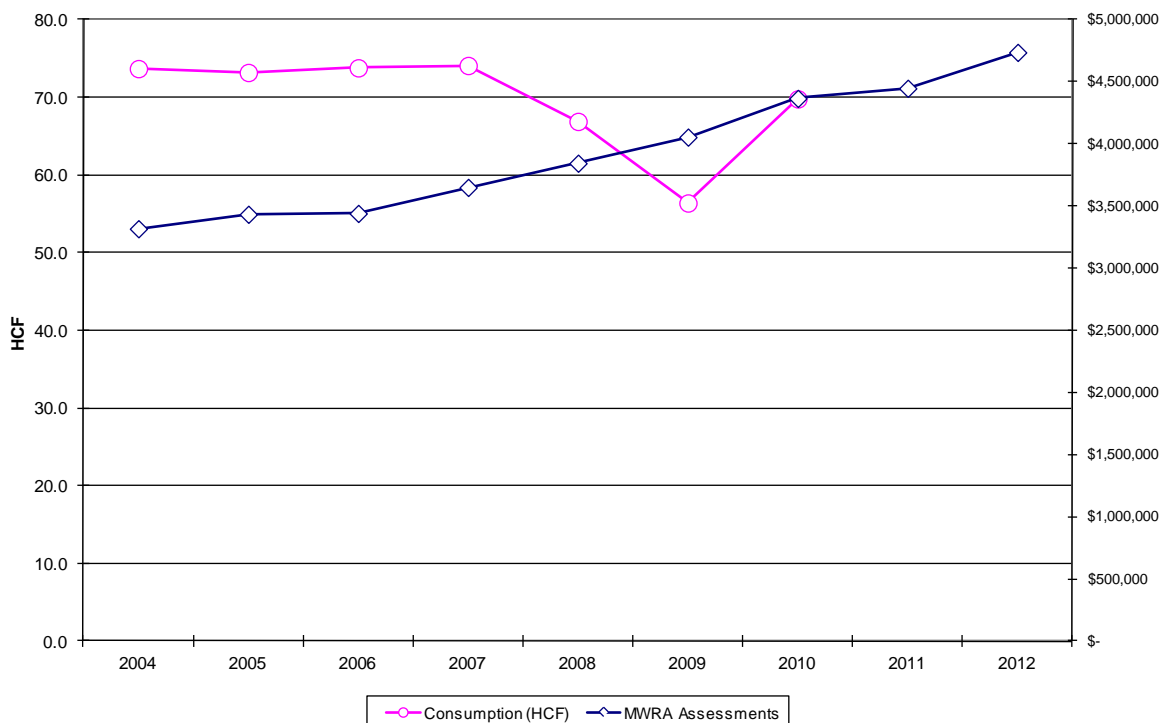
First 10 kgal	\$18.50
>10 – 15 kgal	\$ 3.00/kgal
>15 – 35 kgal	\$ 3.75 "
>35 kgal	\$ 4.50 "

### Commercial Sewer Rates:

First 10 kgal	\$31.50
>10 – 15 kgal	\$ 7.00/kgal
>15 – 35 kgal	\$ 8.00 "
>35 kgal	\$ 9.50 "

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



## Cambridge (S/partial W)

### Residential Water Rates:

Last adjusted: April 2011  
 Next adjustment scheduled: No answer  
 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 "

### Residential Sewer Rates:

Last adjusted: April 2011  
 Next adjustment scheduled: No answer  
 Fund: General

0 – 40 HCF/year	\$ 7.86/HCF
>40 – 400 HCF/year	\$ 8.32 "
>400 – 2,000 HCF/year	\$ 8.93 "
>2,000 – 10,000 HCF/year	\$ 9.62 "
>10,000 HCF/year	\$10.23 "

Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$380.00
Sewer	\$980.00
Combined	\$1,360.00
% change from 2010	0.0%

Annual Cost Actual Community Usage (59.2 HCF = DEP Data Provided by Community)	
Water	\$183.01
Sewer	\$474.14
Combined	\$657.15

### Commercial Water Rates:

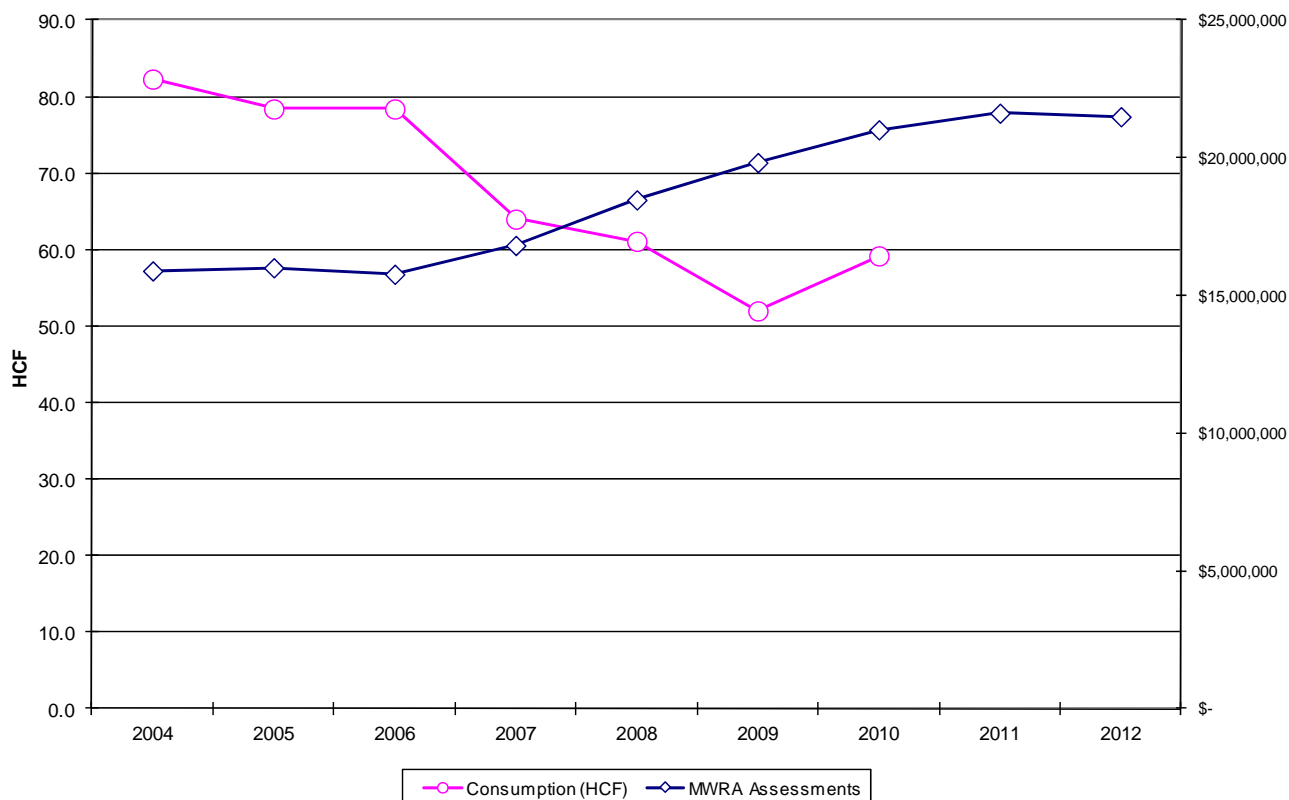
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: Residents over 65 who own/occupy their own home are eligible for a 15% discount on water/sewer bills not to exceed \$90 annually.

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Canton (S/partial W)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base Charge \$10.00  
 1 – 15 HCF \$ 3.80/HCF  
 >15 – 40 HCF \$ 6.32 "  
 >40 – 100 HCF \$10.43 "  
 >100 HCF \$13.11 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base Charge \$ 5.00  
 1 – 15 HCF \$ 6.21/HCF  
 >15 – 40 HCF \$ 6.78 "  
 >40 – 100 HCF \$ 8.80 "  
 >100 HCF \$11.24 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$647.20
Sewer	\$799.40
Combined	\$1,446.60
% change from 2010	6.5%

Annual Cost Actual Community Usage (87.6 HCF = DEP Data Provided by Community)	
Water	\$442.43
Sewer	\$579.73
Combined	\$1,022.16

**Commercial Water Rates:**

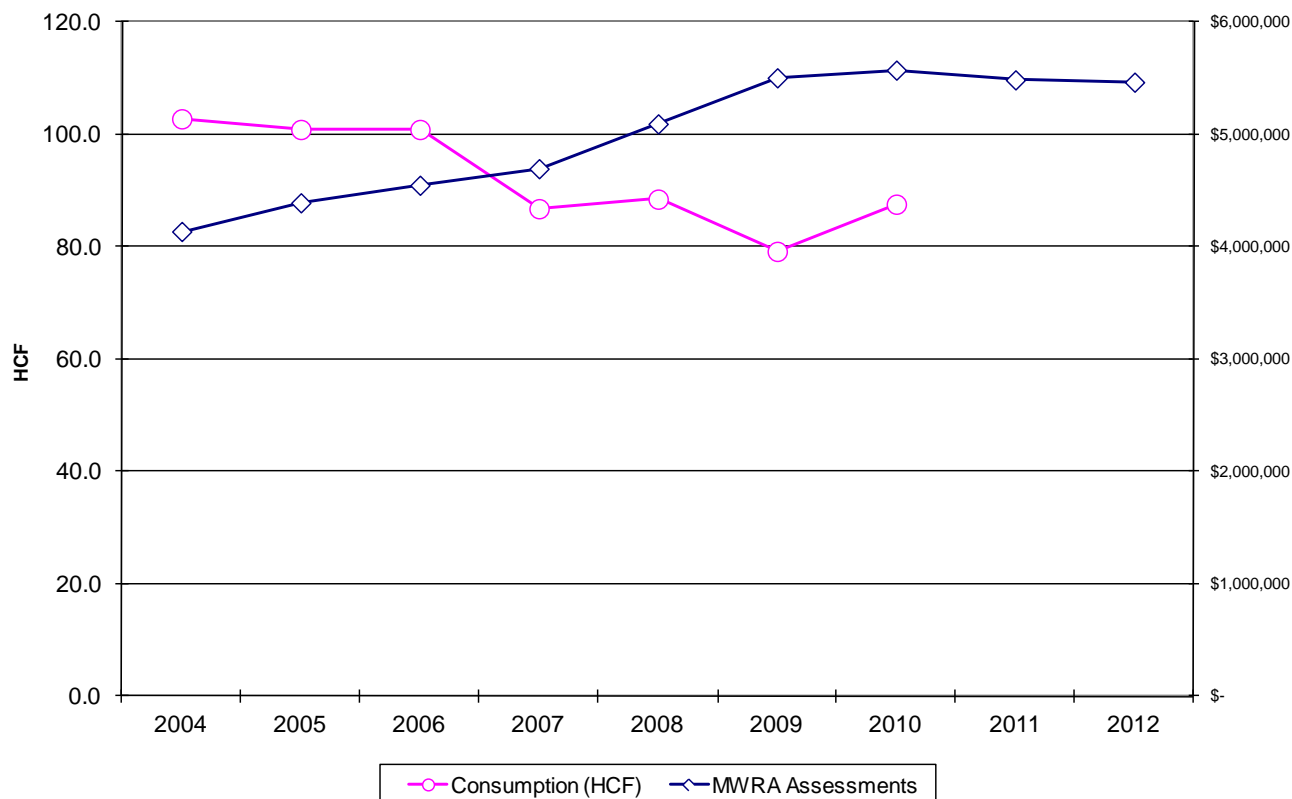
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



## Chelsea (W/S)

### Residential Water Rates:

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

0 – 10 HCF \$4.10/HCF  
 >10 – 15 HCF \$4.99 "  
 >15 HCF \$5.97 "

Billing Frequency: Monthly

### Residential Sewer Rates:

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

0 – 10 HCF \$ 8.03/HCF  
 >10 – 15 HCF \$ 8.75 "  
 >15 HCF \$10.06 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$492.00
Sewer	\$963.60
Combined	\$1,455.60
% change from 2010	7.5%

Annual Cost Actual Community Usage (71.6 HCF = DEP Data Provided by Community)	
Water	\$293.53
Sewer	\$574.88
Combined	\$868.41

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Chicopee (W)

### Residential Water Rates:

Last adjusted: July 2007  
 Next adjustment scheduled: Unknown  
 Fund: General

Minimum charge \$27.00  
 All units \$ 2.70/HCF

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue (Sewer Use Fee)

Minimum Charge per bill (<334 CF): \$10.00/quarter  
 CSO Fee \$25.00/quarter  
 0 – 10 HCF \$ 4.45/HCF  
 >10 HCF \$ 5.25 "

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

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$324.00
Sewer	\$650.75
Combined	\$974.75
% change from 2010	5.8%

Annual Cost Actual Community Usage (71.6 HCF = DEP Data Provided by Community)	
Water	\$193.32
Sewer	\$415.71
Combined	\$609.03

### Commercial Water Rates:

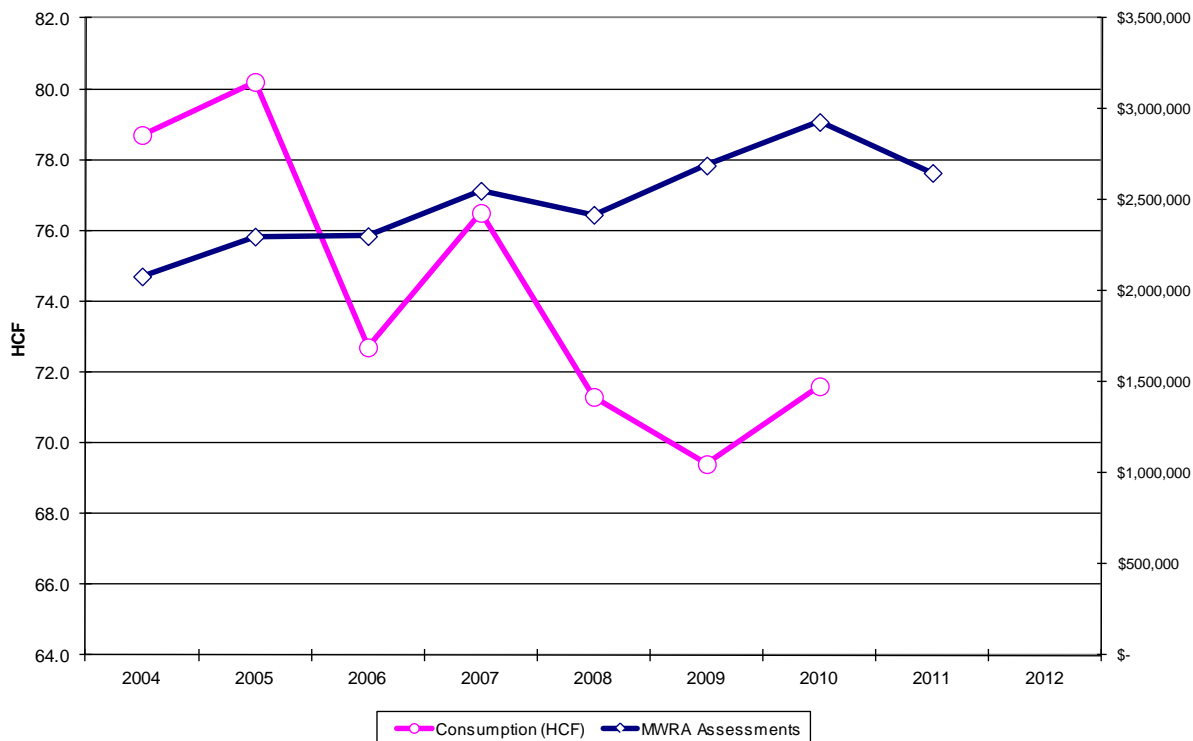
Same as residential with \$2.00 water meter rental charge (5/8" meter)

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments





## Clinton (W/S)

### Residential Water Rates:

Last adjusted: June 2007  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum Bill: \$56.60  
 0 – 10 HCF \$ 5.66/HCF  
 >10 – 30 HCF \$ 1.30 "  
 >30 – 50 HCF \$ 2.90 "  
 >50 – 200 HCF \$ 3.12 "  
 >200 HCF \$ 3.35 "  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: June 2007  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum Bill: \$42.40  
 Sewer bill is calculated as 75% of water bill.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$343.60
Sewer	\$257.70
Combined	\$601.30
% change from 2010	0.0%

Annual Cost Actual Community Usage (68.0 HCF = DEP Data Provided by Community)	
Water	\$188.40
Sewer	\$141.30
Combined	\$329.70

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



- ♦ 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.

## Dedham (S)

**Residential Water Rates:**

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

Minimum charge per bill includes first 3 HCF (5/8" meter) \$35.52

>3 – 42 HCF \$ 4.17/HCF  
 >42 – 75 HCF \$ 6.77 "  
 >75 HCF \$ 8.77 "

Billing Frequency: Quarterly, some commercial monthly

**Residential Sewer Rates:**

Last adjusted: June 2007  
 Next adjustment scheduled: June 2012  
 Fund: Enterprise

Minimum charge (under 5 HCF) \$32.32  
 > 5 HCF \$ 8.08/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$592.44
Sewer	\$937.28
Combined	\$1,529.72
% change from 2010	4.4%

Annual Cost Actual Community Usage (73.3 HCF = DEP Data Provided by Community)	
Water	\$397.71
Sewer	\$592.26
Combined	\$989.98

**Commercial Water Rates:**

Minimum charge 5/8" with 9 HCF allowance: \$51.69

All units in excess of allowance \$ 4.09/HCF

**Commercial Sewer Rates:**

Minimum Charge: (under 5 HCF) \$45.20

All units \$11.30/HCF

Senior and/or Low Income Discounts: No water discount.

Sewer – \$750.00

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Everett (W/S)

### Residential Water Rates:

Last adjusted: January 2003  
 Next adjustment scheduled: No answer  
 Fund: General

0 – 30 HCF \$1.51/HCF  
 >30 – 60 HCF \$1.80 "  
 >60 – 1,000 HCF \$2.15 "  
 >1,000 HCF \$2.43 "

### Residential Sewer Rates:

Last adjusted: January 2003  
 Next adjustment scheduled: No answer  
 Fund: General

0 – 30 HCF \$4.11/HCF  
 >30 – 60 HCF \$5.08 "  
 >60 – 1,000 HCF \$5.78 "  
 >1,000 HCF \$6.42 "  
 Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$181.20
Sewer	\$493.20
Combined	\$674.40
% change from 2010	0.0%

Annual Cost Actual Community Usage (83.4 HCF = DEP Data Provided by Community)	
Water	\$125.93
Sewer	\$342.77
Combined	\$468.71

### Commercial Water Rates:

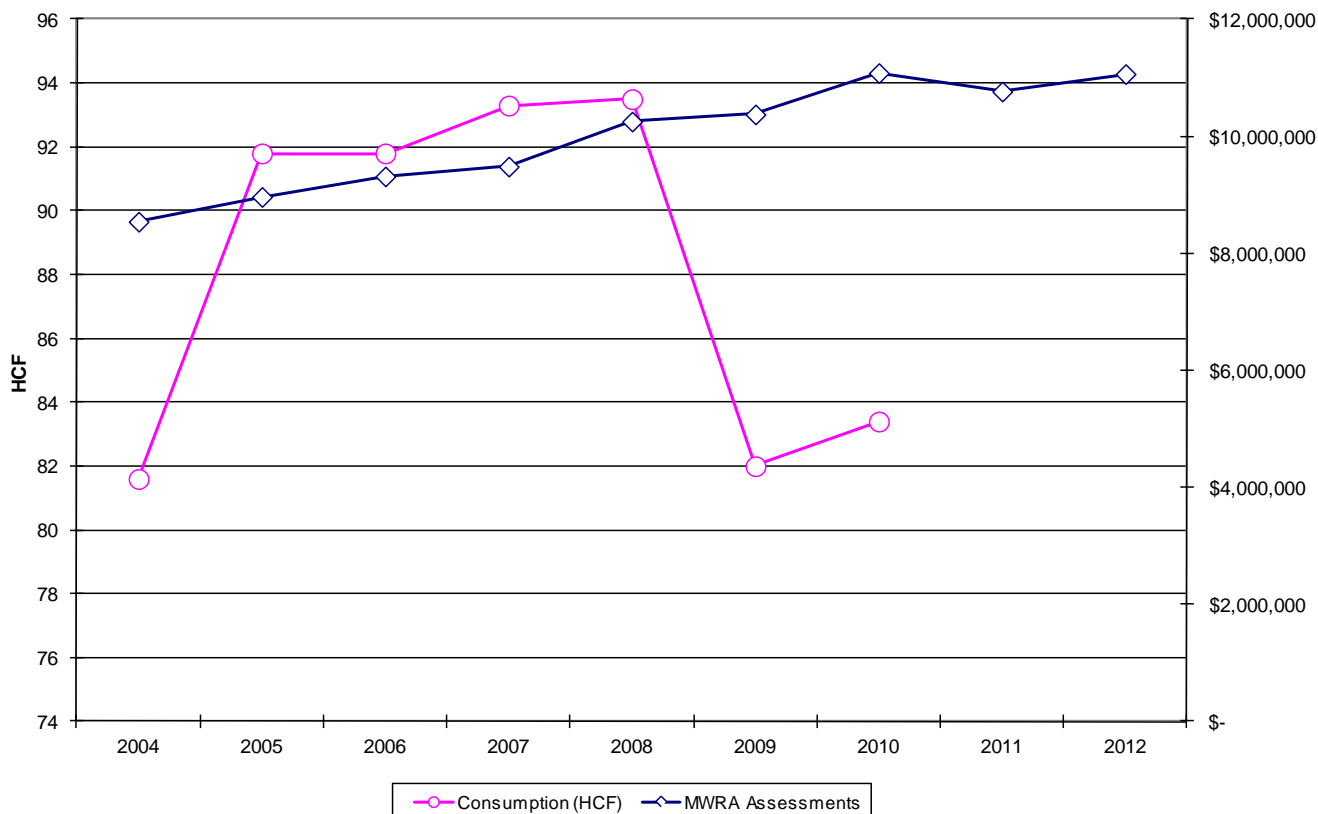
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 15% on water only, 65+ or fully disabled in a 1-3 family dwelling.

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Framingham (W/S)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 12 HCF	\$4.25/HCF
>12 – 27 HCF	\$4.71 "
>27 – 51 HCF	\$5.46 "
>51 – 750 HCF	\$6.36 "
>750 HCF	\$7.72 "

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 12 HCF	\$ 5.23 /HCF
>12 – 27 HCF	\$ 5.40 "
>27 – 51 HCF	\$ 7.20 "
>51 – 750 HCF	\$10.30 "
>750 HCF	\$14.95 "

Based on 100% of water usage.

Billing Frequency: Quarterly, some commercial monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$552.12
Sewer	\$661.44
Combined	\$1,213.56
% change from 2010	10.7%

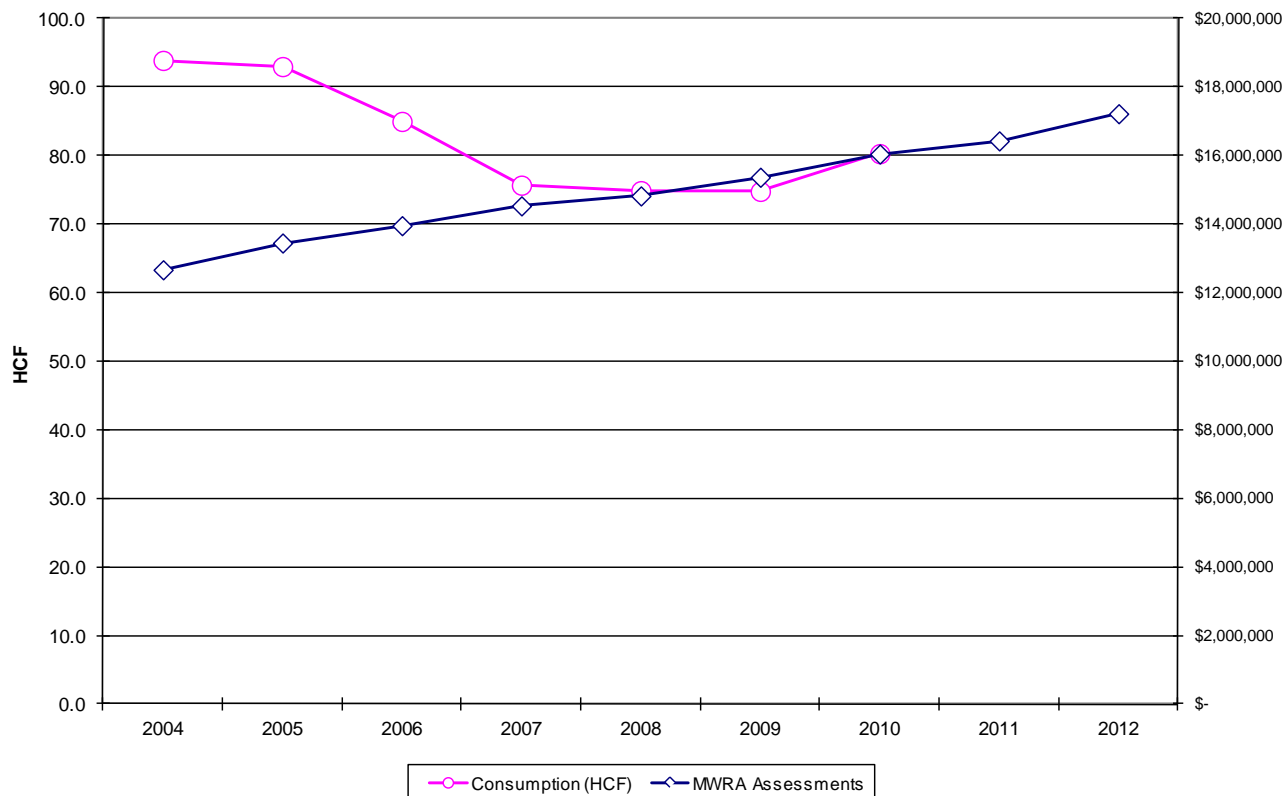
Annual Cost Actual Community Usage (80.3 HCF = DEP Data Provided by Community)	
Water	\$356.13
Sewer	\$425.46
Combined	\$781.59

### Commercial Water Rates:

### Commercial Sewer Rates:

Senior and/or Low Income Discounts: 25% discount on water and sewer rates if income and age-based qualifications are met.

## Actual Water Usage versus MWRA Assessments



# Hingham (S)

## Residential Water Rates:

Last adjusted: April 2009  
 Next adjustment scheduled: September 2010  
 Fund: Private Company

Base charge (5/8" meter) \$83.28/bill  
 0 – 12 HCF \$ 2.566/HCF  
 >12 HCF \$ 3.496 "  
 Consumption charge for water treatment facility \$ 0.8754 "  
 Consumption charge for O&M \$ 0.8796 "

Billing Frequency: Water: Quarterly

## Residential Sewer Rates:

Last adjusted: May 2011  
 Next adjustment scheduled: May 2012  
 Fund: Special Revenue

Minimum charge \$160.00  
 All units \$ 8.95/HCF  
 Based on 100% of water usage.

Sewer: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$918.60
Sewer	\$1,074.00
Combined	\$1,992.60
% change from 2010	2.8%

Annual Cost Actual Community Usage (86.7 HCF = DEP Data Provided by Community)	
Water	\$743.74
Sewer	\$775.97
Combined	\$1,519.71

## Commercial Water Rates:

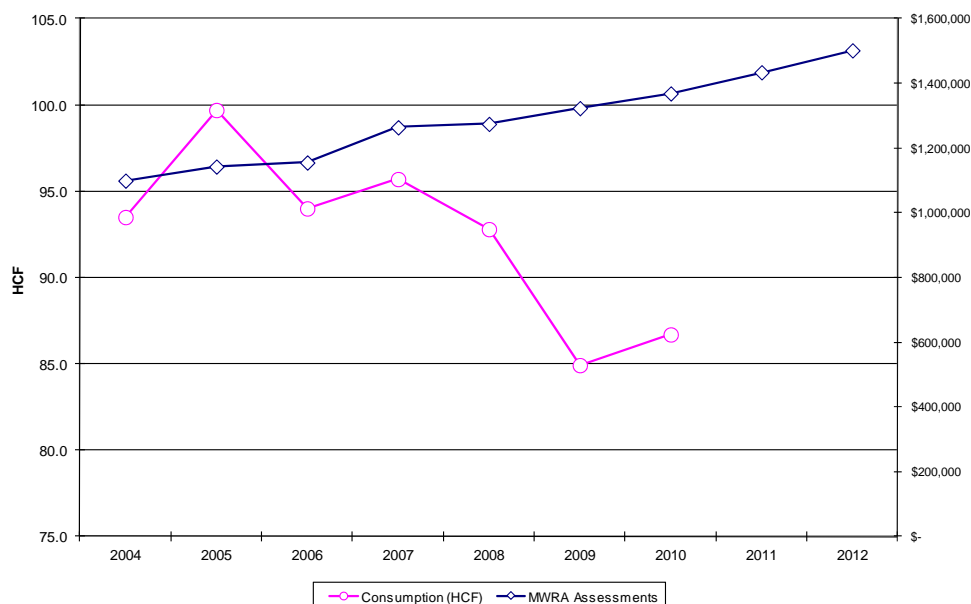
Base charge (5/8" meter): \$627.93/quarter  
 0-12 HCF \$ 1.881/HCF  
 >12 HCF \$ 2.356 "

Senior and/or Low Income Discounts: Each year, the first 400 customers who qualify for the low-income assistance program can get a one-time voucher for \$50.

## Commercial Sewer Rates:

Same as residential.

## Actual Water Usage versus MWRA Assessments



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

# Holbrook (S)

## Residential Water Rates:

Last adjusted: April 2011  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise  
 Minimum charge \$98.00/year  
 All units \$ 5.17/HCF  
 Billing Frequency: Quarterly (2 estimated bills)

## Residential Sewer Rates:

Last adjusted: April 2011  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise  
 Minimum charge \$244.00/year  
 All units \$ 6.05/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$620.40
Sewer	\$730.80
Combined	\$1,351.20
% change from 2010	9.5%

Annual Cost Actual Community Usage (77.6 HCF = DEP Data Provided by Community)	
Water	\$401.19
Sewer	\$474.32
Combined	\$875.51

## Commercial Water Rates:

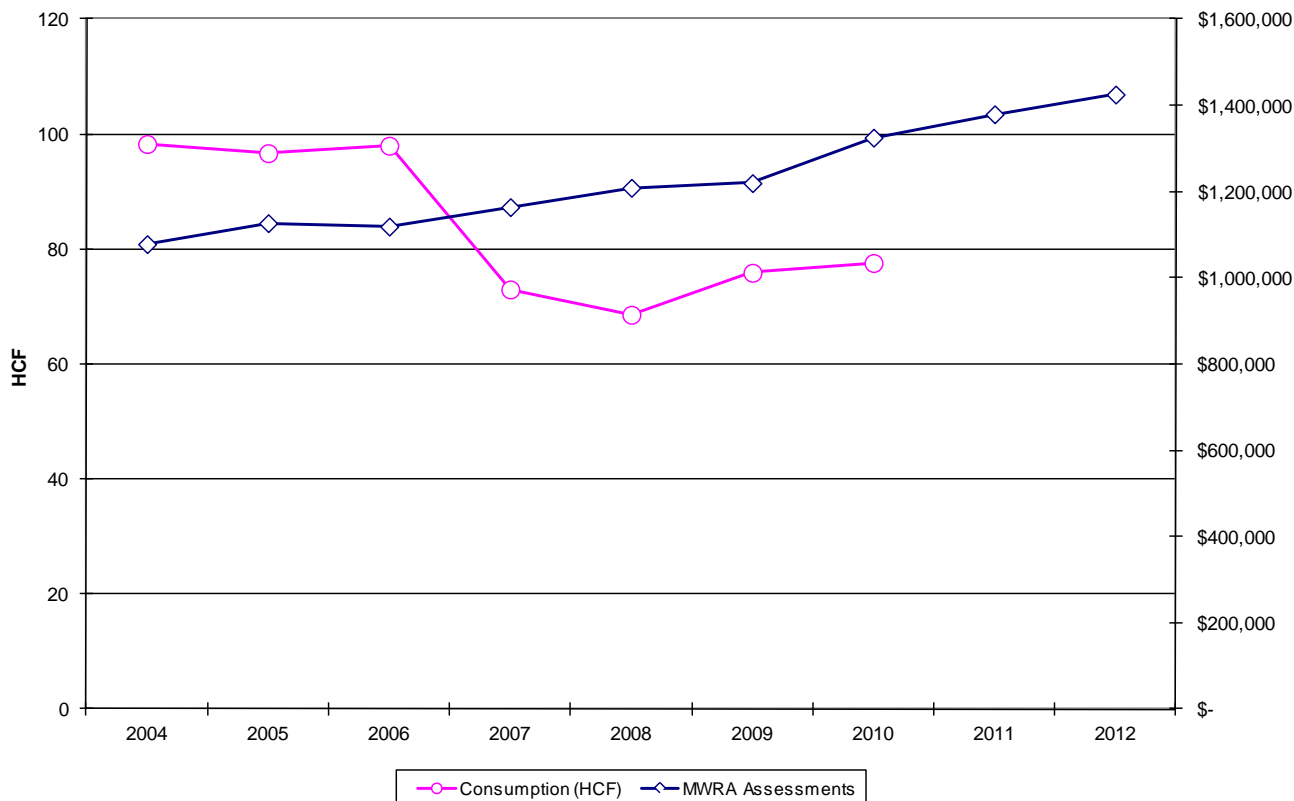
All units \$3.99/HCF

## Commercial Sewer Rates:

All units \$6.59/HCF

Senior and/or Low Income Discounts: None

## Actual Water Usage versus MWRA Assessments



## Leominster (partial W)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: No answer  
 Fund: Special Revenue  
 First 3 HCF \$15.00  
 >3 HCF \$ 2.95/HCF  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: October 2010  
 Next adjustment scheduled: No answer  
 Fund: Special Revenue  
 First 3 HCF \$14.00  
 >3 HCF \$ 3.05/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$378.60
Sewer	\$385.40
Combined	\$764.00
% change from 2010	0.0%

Annual Cost Actual Community Usage (66.4 HCF = DEP Data Provided by Community)	
Water	\$220.48
Sewer	\$221.92
Combined	\$442.40

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: No answer

### Actual Water Usage versus MWRA Assessments



- ◆ Leominster has not used MWRA water during this timeframe and, therefore, has no MWRA assessment shown in its graph.

# Lexington (W/S)

## Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

0 – 40 HCF \$3.12/HCF  
 >40 – 80 HCF \$4.68 "  
 >80 HCF \$6.16 "

Billing Frequency: Semi-Annually

## Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

0 – 40 HCF \$ 6.68/HCF  
 >40 – 80 HCF \$10.91 "  
 >80 HCF \$17.33 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$436.80
Sewer	\$970.80
Combined	\$1,407.60
% change from 2010	11.6%

Annual Cost Actual Community Usage (99.3 HCF = DEP Data Provided by Community)	
Water	\$339.92
Sewer	\$744.96
Combined	\$1,084.89

## Commercial Water Rates:

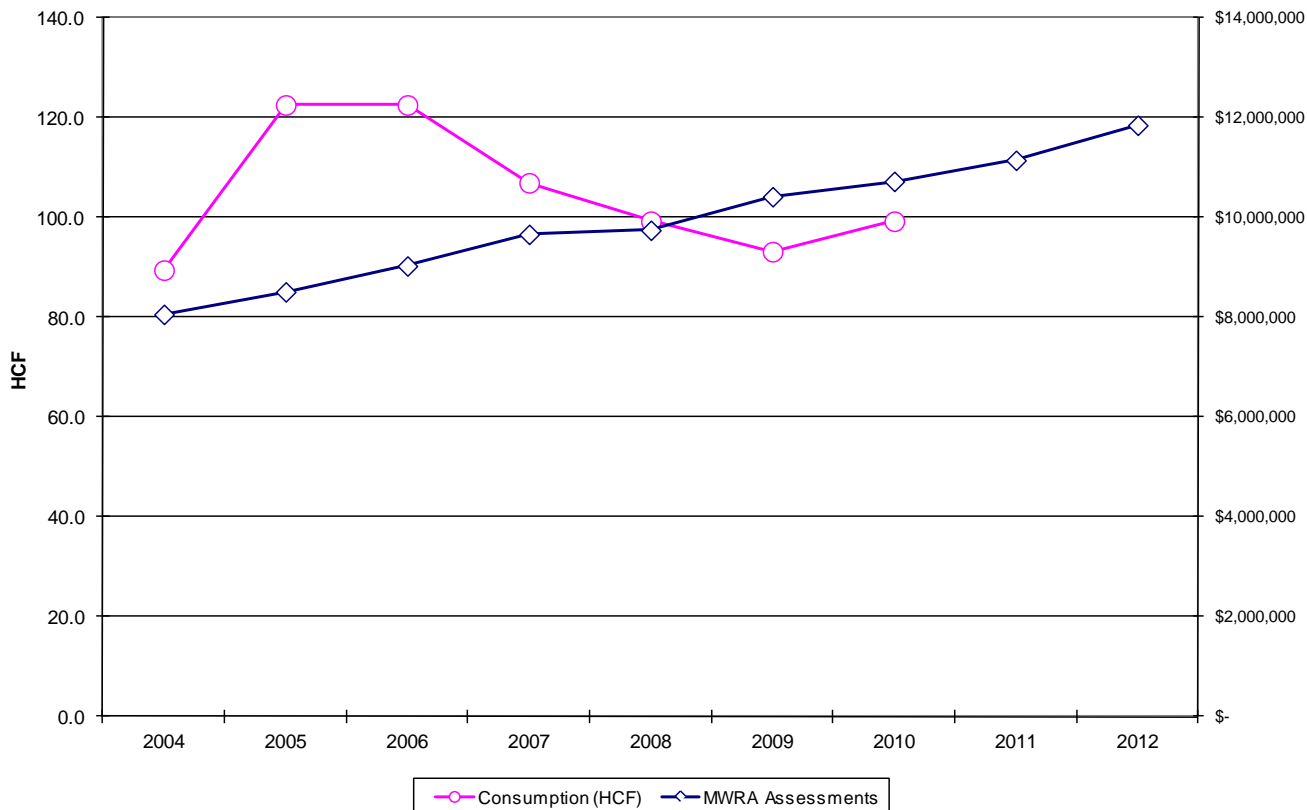
Same as residential

## Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 30% discount for customers that qualify for fuel assistance.

## Actual Water Usage versus MWRA Assessments





## Lynn (partial W)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 27 HCF \$3.33/HCF  
 >27 – 73 HCF \$3.43 "  
 >73 – 2,812 HCF \$3.47 "  
 >2,812 HCF \$3.52 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 27 HCF \$6.12/HCF  
 >27 – 73 HCF \$6.33 "  
 >73 – 2,812 HCF \$6.39 "  
 >2,812 HCF \$6.44 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$400.80
Sewer	\$736.92
Combined	\$1,137.72
% change from 2010	0.0%

Annual Cost Actual Community Usage (70.6 HCF = DEP Data Provided by Community)	
Water	\$235.10
Sewer	\$432.07
Combined	\$667.17

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: Discounts available for owner-occupied widows, widowers, seniors, and fully disabled. Single family 15%, two family 7.5%, and three family 5%

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Lynnfield – Lynnfield Water District (W)

**Residential Water Rates:**

Last adjusted: April 2007  
 Next adjustment scheduled: No answer  
 Fund: General

Base charge includes

0 – 20 HCF \$62.00/bill  
 >20 – 100 HCF \$ 2.67/HCF  
 >100 HCF \$ 2.90 "

Billing Frequency: Residential: Semi-annually Commercial: 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	\$337.60
Sewer	Not sewered
Combined	\$337.60
% change from 2010	0.0%

Annual Cost Actual Community Usage (122.4 HCF = DEP Data Provided by Community)	
Water	\$450.81
Sewer	Not sewered
Combined	\$450.81

**Commercial Water Rates:**

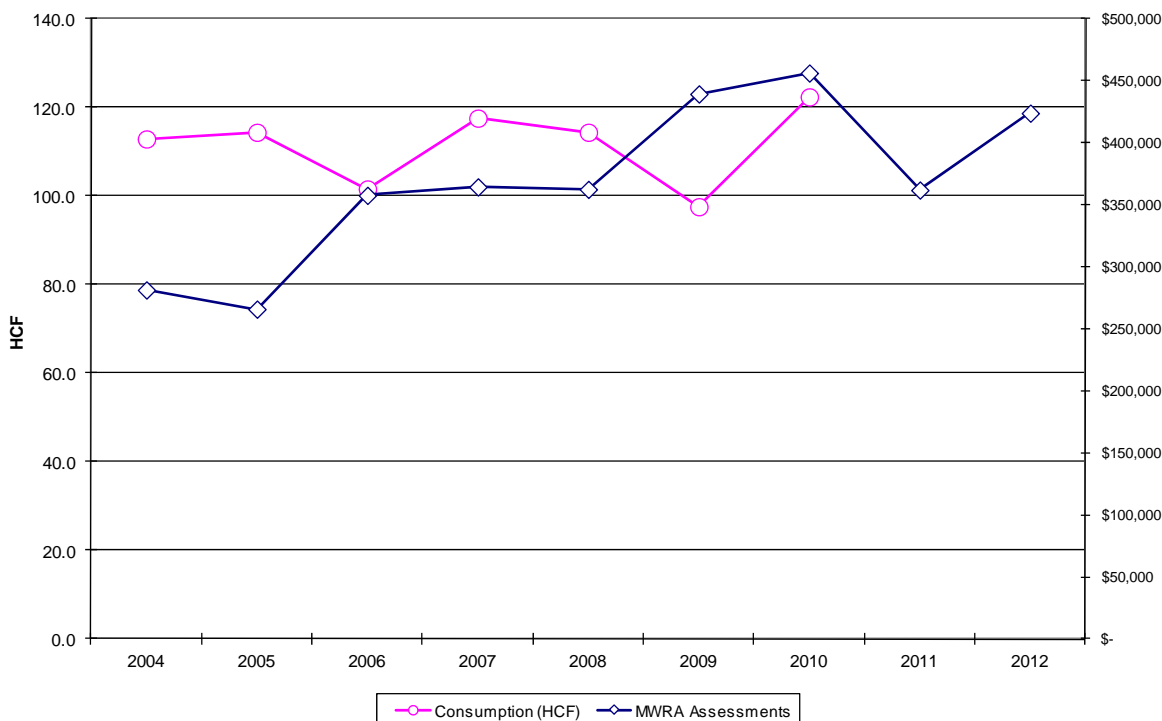
Base charge per quarterly bill includes  
 0 – 10 HCF \$31.00  
 >10 – 50 HCF \$ 2.67/HCF  
 >50 HCF \$ 2.90 "

**Commercial Sewer Rates:**

n/a

Senior and/or Low Income Discounts: General discount noted below

### Actual Water Usage versus MWRA Assessments



- ◆ Lynnfield has a 10% discount for water service for all customers if bill is paid within 20 days.

## Malden (W/S)

### Residential Water Rates:

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

Minimum charge (5/8" meter)  
 includes 0 – 2 HCF: \$7.00/month  
 >2 – 8 HCF: \$3.71/HCF  
 >8 – 120 HCF: \$7.29 "  
 >120 HCF: \$9.49 "

Billing Frequency: Monthly

### Residential Sewer Rates:

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

Minimum charge (5/8" meter)  
 includes 0 – 2 HCF: \$3.00/month  
 >2 – 8 HCF: \$4.80/HCF  
 >8 – 120 HCF: \$8.61 "  
 >120 HCF: \$9.82 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$526.08
Sewer	\$588.24
Combined	\$1,114.32
% change from 2010	11.3%

Annual Cost Actual Community Usage (69.9 HCF = DEP Data Provided by Community)	
Water	\$254.29
Sewer	\$256.32
Combined	\$510.61

### Commercial Water Rates:

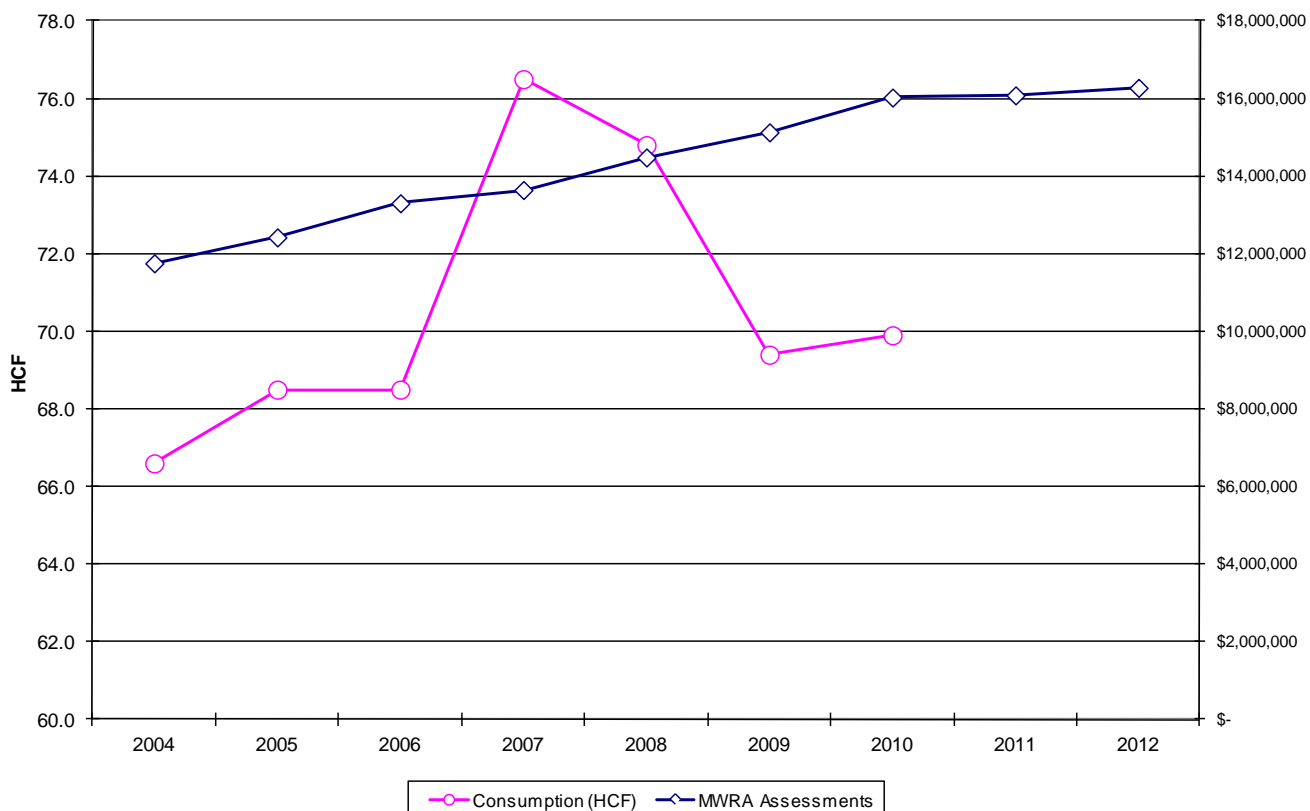
Same as residential

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

Same as residential

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Marblehead (W)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Administrative Charge \$13.25/bill  
 0 – 30 HCF \$ 3.90/HCF  
 >30 HCF \$ 4.20 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Administrative Charge \$9.50/bill  
 0 – 30 HCF \$5.95/HCF  
 >30 HCF \$6.30 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$521.00
Sewer	\$752.00
Combined	\$1,273.00
% change from 2010	0.0%

Annual Cost Actual Community Usage (88.6 HCF = DEP Data Provided by Community)	
Water	\$398.54
Sewer	\$565.17
Combined	\$963.71

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



## Marlborough (partial W)

### Residential Water Rates:

Last adjusted: December 2010  
 Next adjustment scheduled: January 2012  
 Fund: General  
 All units \$5.08/HCF

### Residential Sewer Rates:

Last adjusted: December 2010  
 Next adjustment scheduled: January 2012  
 Fund: General  
 All units \$5.24/HCF  
 Based on 100% of water usage.

Billing Frequency: Residential: Quarterly | Large volume users: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$609.60
Sewer	\$628.80
Combined	\$1,238.40
% change from 2010	21.6%

Annual Cost Actual Community Usage (66.7 HCF = DEP Data Provided by Community)	
Water	\$338.84
Sewer	\$349.51
Combined	\$688.34

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Medford (W/S)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise  
 All units \$5.31/HCF  
 Billing Frequency: Bi-monthly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise  
 All units \$7.60/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$637.20
Sewer	\$912.00
Combined	\$1,549.20
% change from 2010	0.0%

Annual Cost Actual Community Usage (76.8 HCF = DEP Data Provided by Community)	
Water	\$407.81
Sewer	\$583.68
Combined	\$991.49

### Commercial Water Rates:

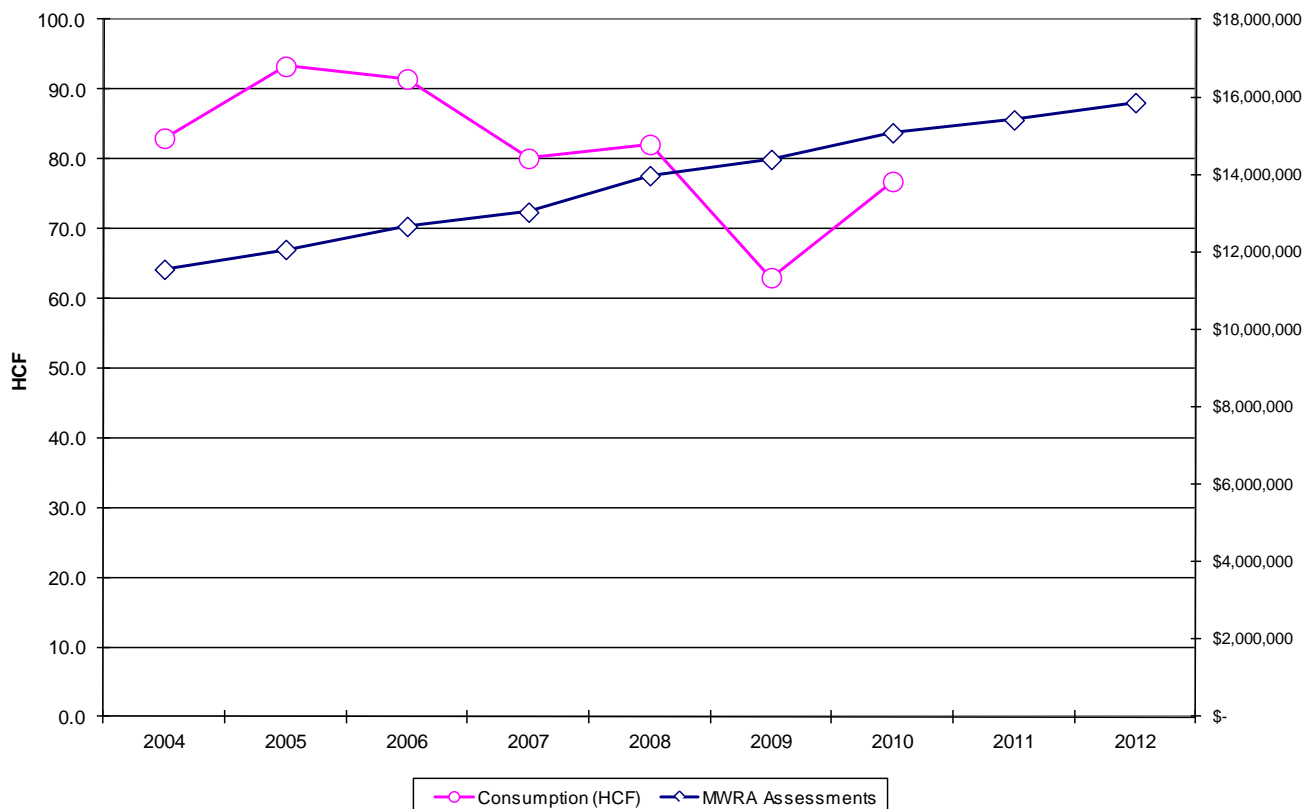
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: \$25.00 for water and \$25.00 for sewer.

### Actual Water Usage versus MWRA Assessments



## Melrose (W/S)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$5.25/HCF  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$9.35/HCF  
 Based on 90% of water usage. If second meter is installed, then based on 100% of primary meter.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$630.00
Sewer	\$1,009.80
Combined	\$1,639.80
% change from 2010	3.3%

Annual Cost Actual Community Usage (60.0 HCF = DEP Data Provided by Community)	
Water	\$315.00
Sewer	\$504.90
Combined	\$819.90

### Commercial Water Rates:

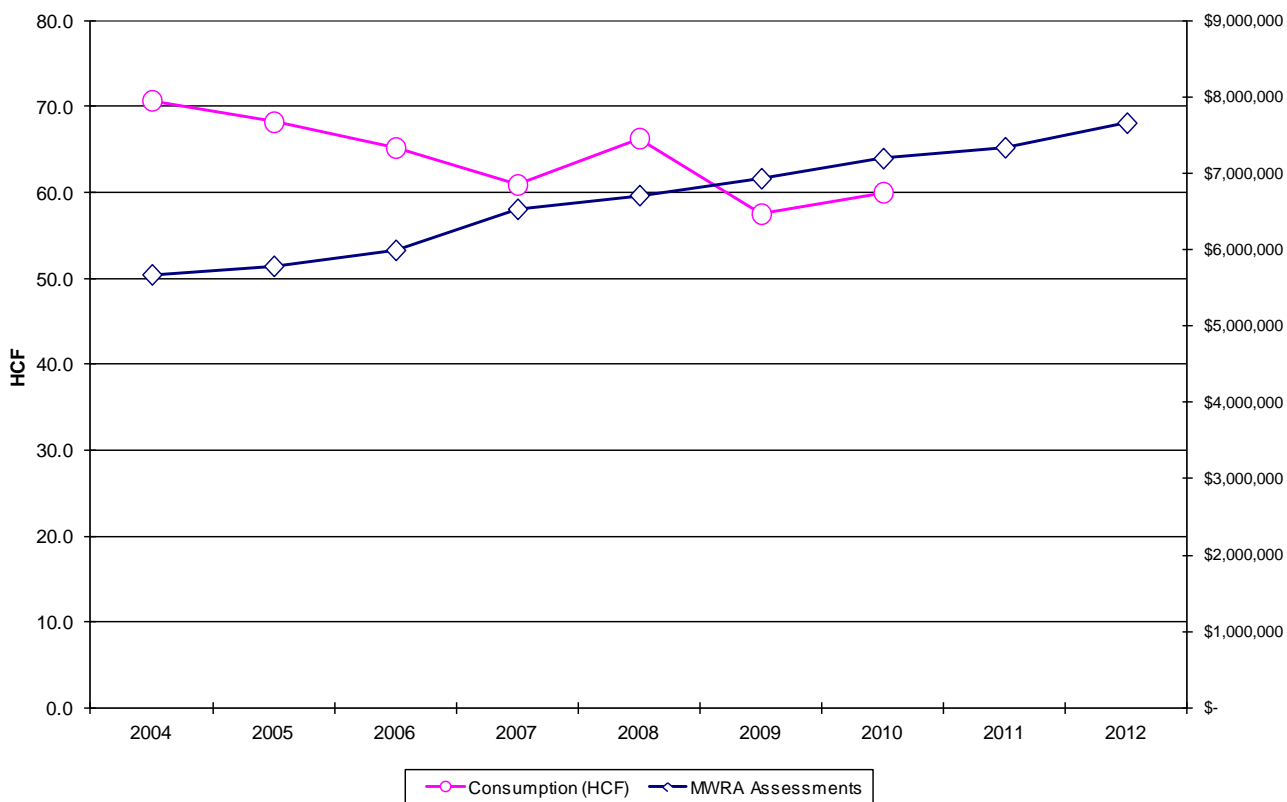
All units \$6.45/HCF

### Commercial Sewer Rates:

All units \$9.35/HCF

Senior and/or Low Income Discounts: 10% discount on water and sewer.

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Milton (W/S)

### Residential Water Rates:

Last adjusted: August 2011  
 Next adjustment scheduled: August 2012  
 Fund: Enterprise

Minimum charge includes

0 – 6 HCF \$26.04/bill  
 >6 – 30 HCF \$ 5.25/HCF  
 >30 – 60 HCF \$ 5.79 "  
 >60 HCF \$ 6.18 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: August 2011  
 Next adjustment scheduled: August 2012  
 Fund: Enterprise

Minimum charge includes

0 – 6 HCF \$34.20/bill  
 >6 – 30 HCF \$10.75/HCF  
 >30 – 60 HCF \$11.85 "  
 >60 HCF \$12.65 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$608.16
Sewer	\$1,168.80
Combined	\$1,776.96
% change from 2010	3.5%

Annual Cost Actual Community Usage (91.7 HCF = DEP Data Provided by Community)	
Water	\$459.59
Sewer	\$864.58
Combined	\$1,324.16

### Commercial Water Rates:

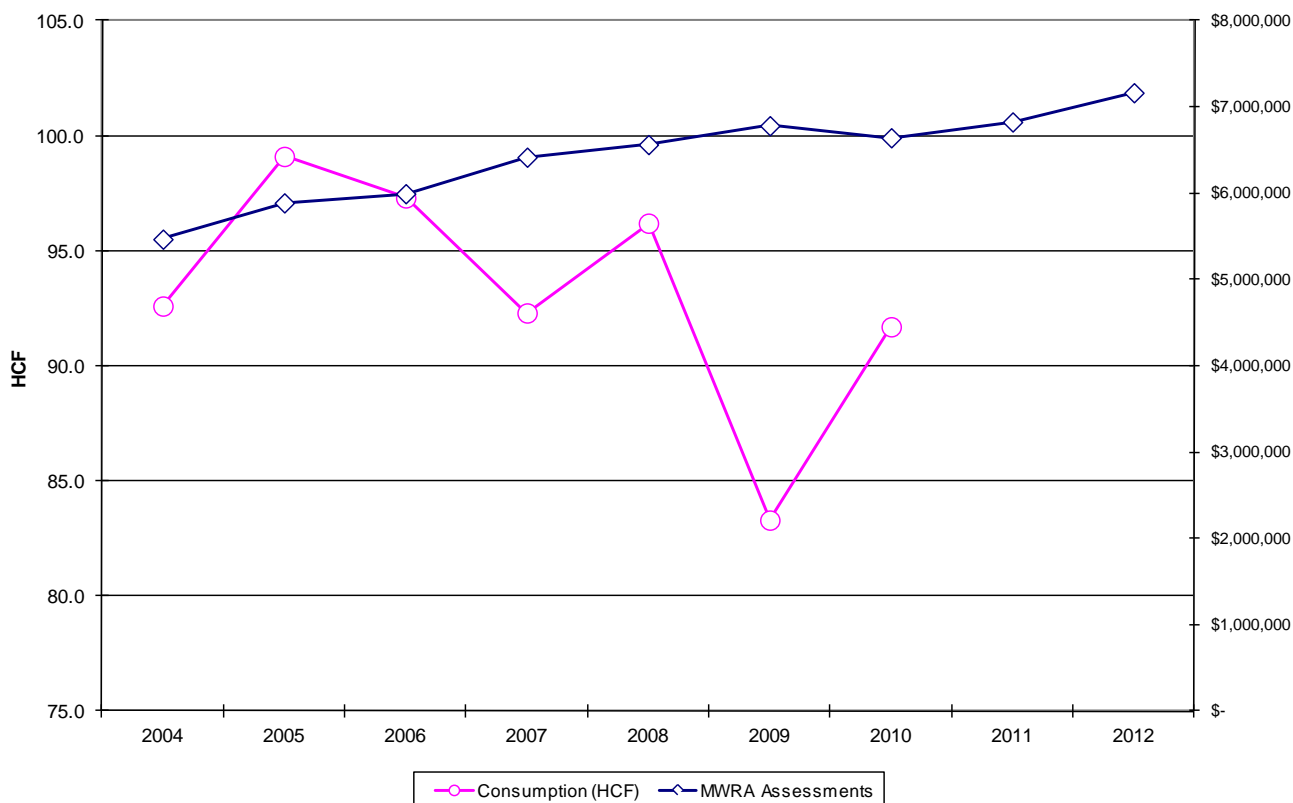
Same as residential

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

Same as residential

## Actual Water Usage versus MWRA Assessments





## Nahant (W)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 All units \$5.74/HCF  
 Billing Frequency: Tri-Annually

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 All units \$8.93/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$688.80
Sewer	\$1,071.60
Combined	\$1,760.40
% change from 2010	7.8%

Annual Cost Actual Community Usage (98.4 HCF = DEP Data Provided by Community)	
Water	\$564.82
Sewer	\$878.71
Combined	\$1,443.53

### Commercial Water Rates:

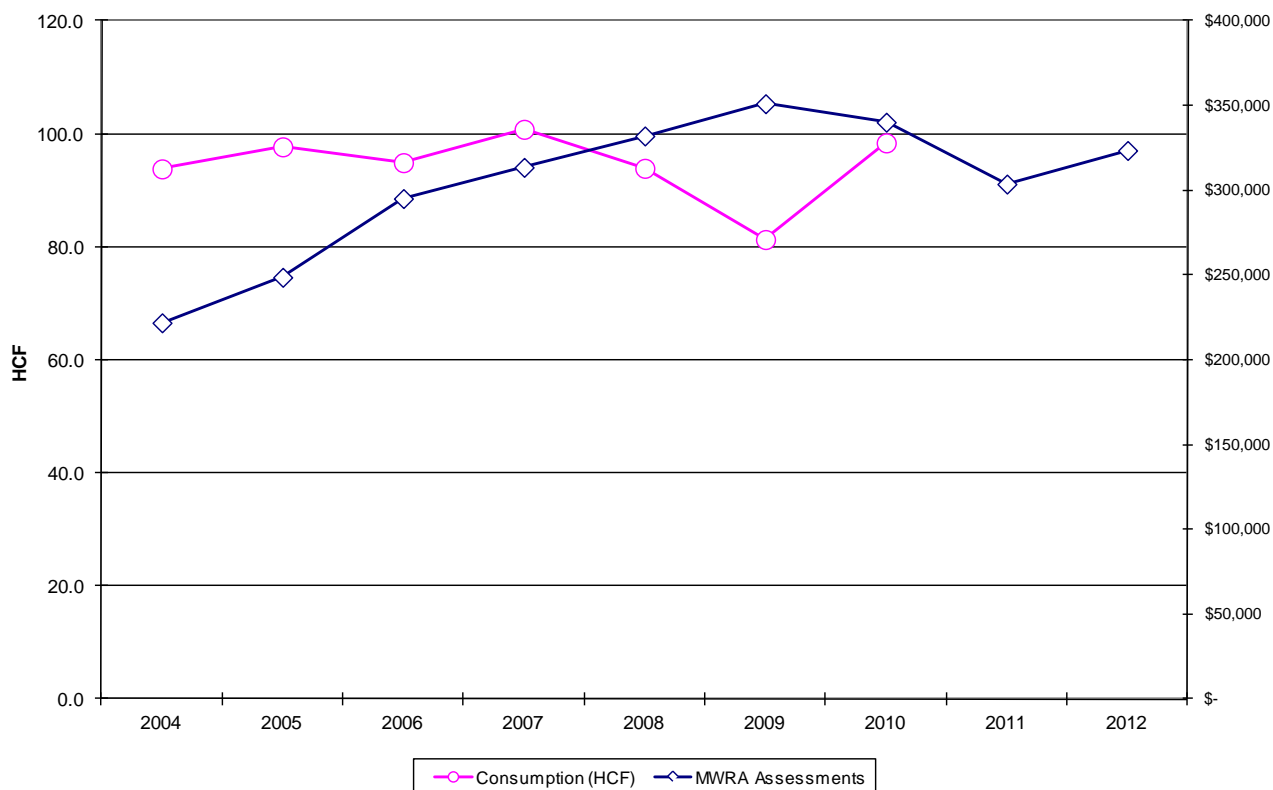
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



- ◆ 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)

## Natick (S)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Administrative Fee \$5.00/bill  
 0 – 10 HCF \$1.55/HCF  
 >10 – 20 HCF \$2.36 "  
 >20 – 40 HCF \$3.49 "  
 >40 HCF \$5.42 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Administrative Fee \$ 5.00/bill  
 0 – 10 HCF \$ 4.15/HCF  
 >10 – 20 HCF \$ 7.40 "  
 >20 HCF \$12.23 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$316.00
Sewer	\$951.20
Combined	\$1,267.20
% change from 2010	0.0%

Annual Cost Actual Community Usage (79.1 HCF = DEP Data Provided by Community)	
Water	\$174.28
Sewer	\$455.34
Combined	\$629.62

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: 25% water and 25% sewer

### Actual Water Usage versus MWRA Assessments



## Needham (S/partial W)

### Residential Water Rates:

Last adjusted: July 2009  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Basic Service Fee: \$15.00  
 0 – 6 HCF \$ 2.50/HCF  
 >6 – 27 HCF \$ 3.75 "  
 >27 – 42 HCF \$ 4.00 "  
 >42 HCF \$ 4.40 "

Billing Frequency: Residential – Quarterly, Commercial – Monthly

### Residential Sewer Rates:

Last adjusted: July 2009  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

0 – 6 HCF \$7.70/HCF  
 >6 – 27 HCF \$8.40 "  
 >27 – 42 HCF \$8.95 "  
 >42 HCF \$9.70 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$483.00
Sewer	\$997.80
Combined	\$1,480.80
% change from 2010	0.0%

Annual Cost Actual Community Usage (102.3 HCF = DEP Data Provided by Community)	
Water	\$413.63
Sewer	\$842.52
Combined	\$1,256.15

### Commercial Water Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

Same as residential

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Newton (W/S)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 - 20 HCF \$5.42/HCF  
 >20 - 70 HCF \$6.50 "  
 >70 HCF \$7.80 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 - 20 HCF \$ 7.96/HCF  
 >20 - 70 HCF \$ 9.55 "  
 >70 HCF \$11.46 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$693.60
Sewer	\$1,018.80
Combined	\$1,712.40
% change from 2010	7.7%

Annual Cost Actual Community Usage (71.5 HCF = DEP Data Provided by Community)	
Water	\$387.53
Sewer	\$569.14
Combined	\$956.67

**Commercial Water Rates:**

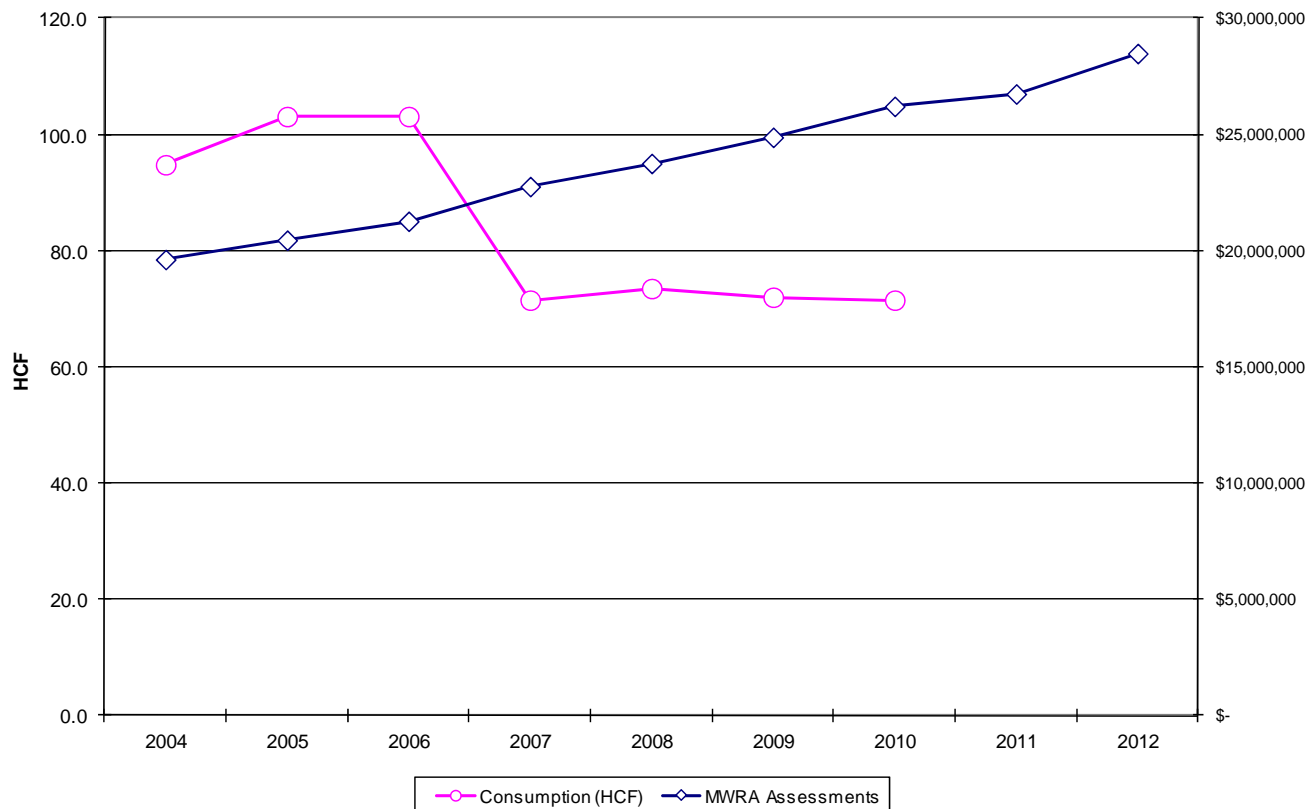
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: A 30% discount for water and sewer services supplied to dwellings owned and inhabited by any person who is certified by the Board of Assessors as qualifying under one or more of the tax exemption programs set out in Massachusetts General Laws.

### Actual Water Usage versus MWRA Assessments



## Northborough (partial W)

**Residential Water Rates:**

Last adjusted: July 2010  
 Next adjustment scheduled: July 2011  
 Fund: Enterprise

0 – 20 HCF \$ 4.276/HCF  
 >20 – 60 HCF \$ 5.125 "  
 >60 HCF \$ 6.316 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2010  
 Next adjustment scheduled: July 2011  
 Fund: Enterprise

0 – 20 HCF \$5.207/HCF  
 >20 – 60 HCF \$5.401 "  
 >60 HCF \$5.644 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$547.08
Sewer	\$632.60
Combined	\$1,179.68
% change from 2010	0.0%

Annual Cost Actual Community Usage (62.3 HCF = DEP Data Provided by Community)	
Water	\$266.39
Sewer	\$324.40
Combined	\$590.79

**Commercial Water Rates:**

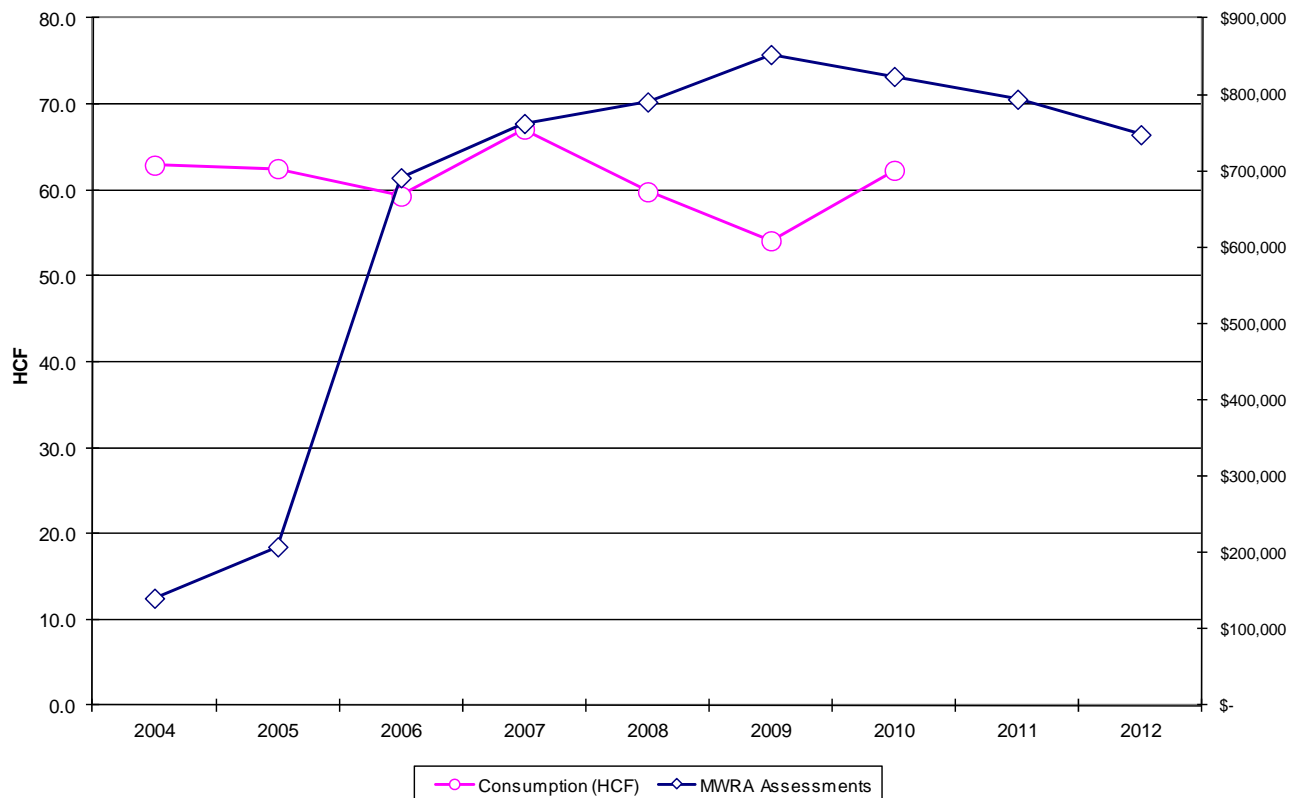
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Norwood (W/S)

### Residential Water Rates:

Last adjusted: April 2010  
 Next adjustment scheduled: No answer  
 Fund: General

Meter charge (5/8") \$2.66  
 0 – 5 HCF \$3.18/HCF  
 >5 HCF \$4.70 "

Billing Frequency: Monthly

### Residential Sewer Rates:

Last adjusted: April 2010  
 Next adjustment scheduled: No answer  
 Fund: General

0 – 3 HCF \$ 6.24/HCF  
 >3 HCF \$12.03 "  
 Based on 60% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$504.72
Sewer	\$741.10
Combined	\$1,245.82
% change from 2010	0.0%

Annual Cost Actual Community Usage (62.6 HCF = DEP Data Provided by Community)	
Water	\$243.90
Sewer	\$326.73
Combined	\$561.63

### Commercial Water Rates:

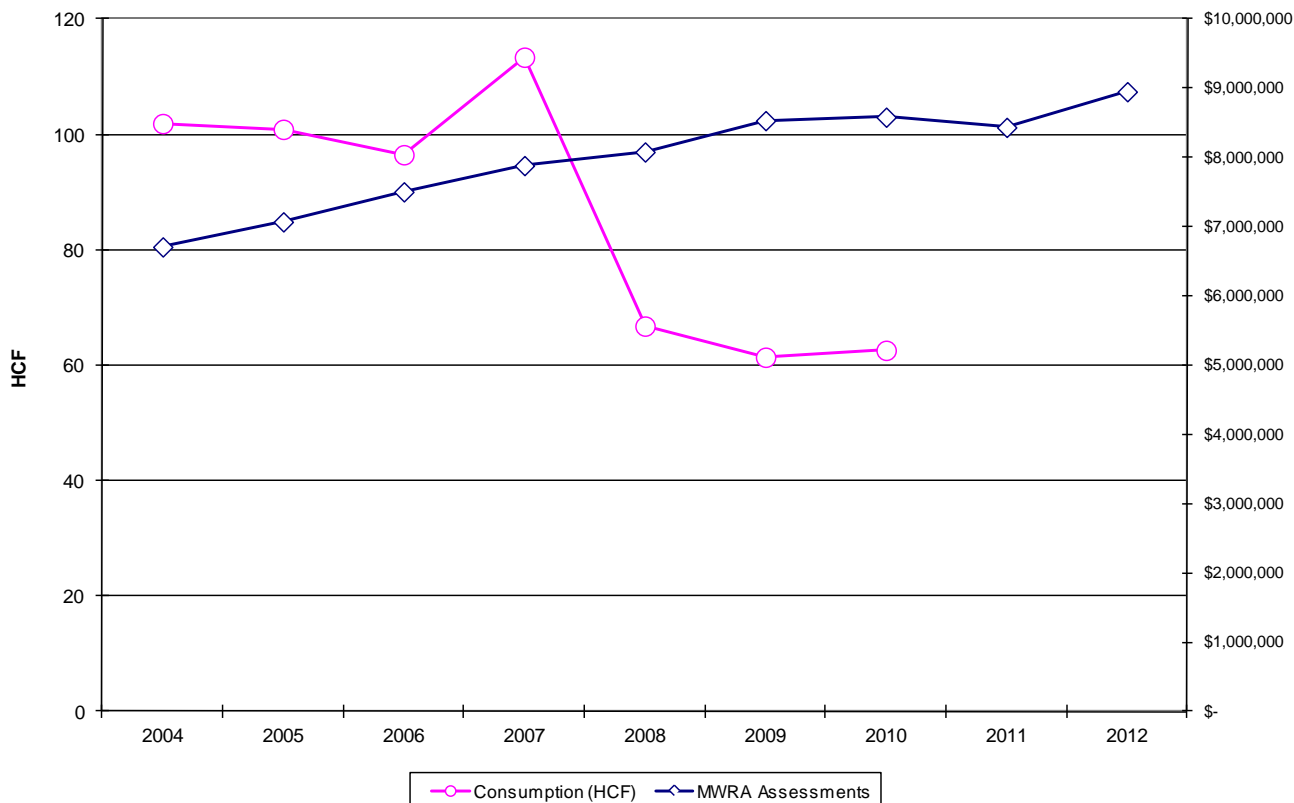
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

## Actual Water Usage versus MWRA Assessments



## Peabody (partial W)

### Residential Water Rates:

Last adjusted: March 2003  
 Next adjustment scheduled: Unknown  
 Fund: General

Minimum Charge: \$5.00/Quarter  
 0 – 15 HCF \$2.44/HCF  
 >15 – 30 HCF \$2.66 "  
 >30 HCF \$2.90 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: March 2003  
 Next adjustment scheduled: Unknown  
 Fund: General

0 – 15 HCF \$3.25/HCF  
 >15 HCF \$3.58 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$306.00
Sewer	\$409.80
Combined	\$715.80
% change from 2010	0.0%

Annual Cost Actual Community Usage (71.1 HCF = DEP Data Provided by Community)	
Water	\$173.48
Sewer	\$234.74
Combined	\$408.22

### Commercial Water Rates:

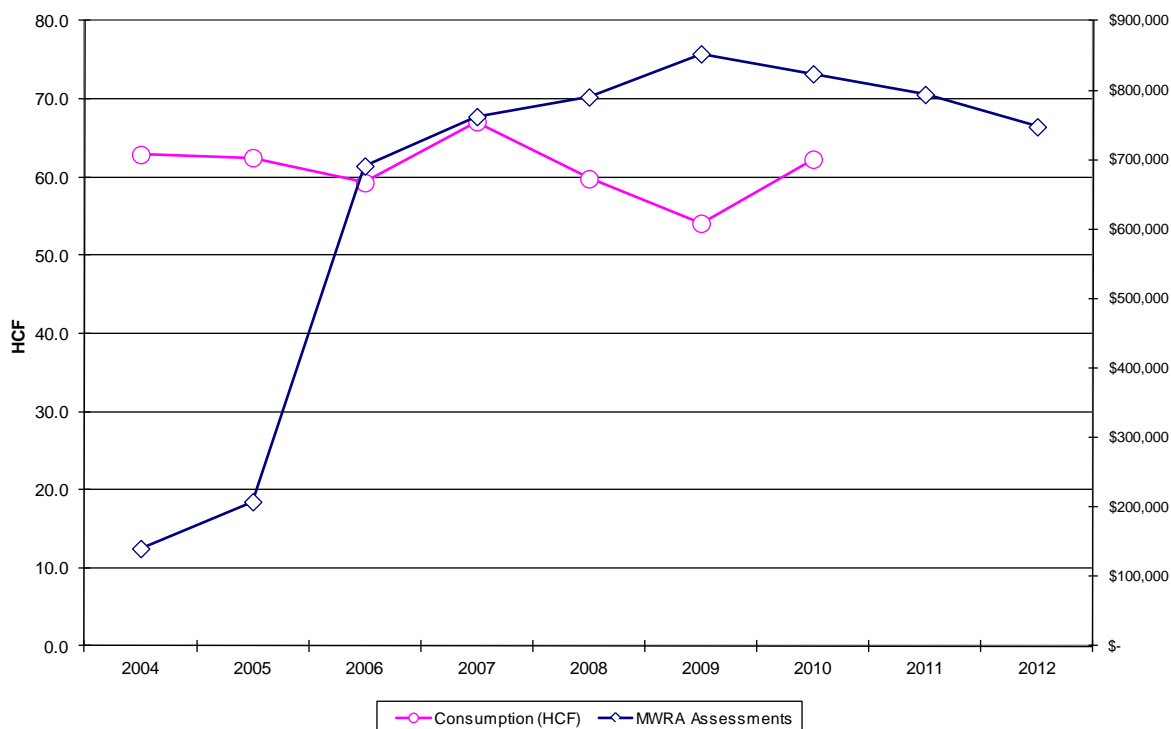
0 – 15 HCF \$2.90/HCF  
 >15 – 150 HCF \$3.16 "  
 >150 HCF \$3.44 "

### Commercial Sewer Rates:

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

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



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

## Quincy (W/S)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$4.71/HCF  
 Billing Frequency: Residential: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$11.05/HCF  
 Based on 70% of water usage.  
 Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$565.20
Sewer	\$928.20
Combined	\$1,493.40
% change from 2010	0.0%

Annual Cost Actual Community Usage (68.7 HCF = DEP Data Provided by Community)	
Water	\$323.58
Sewer	\$531.39
Combined	\$854.97

### Commercial Water Rates:

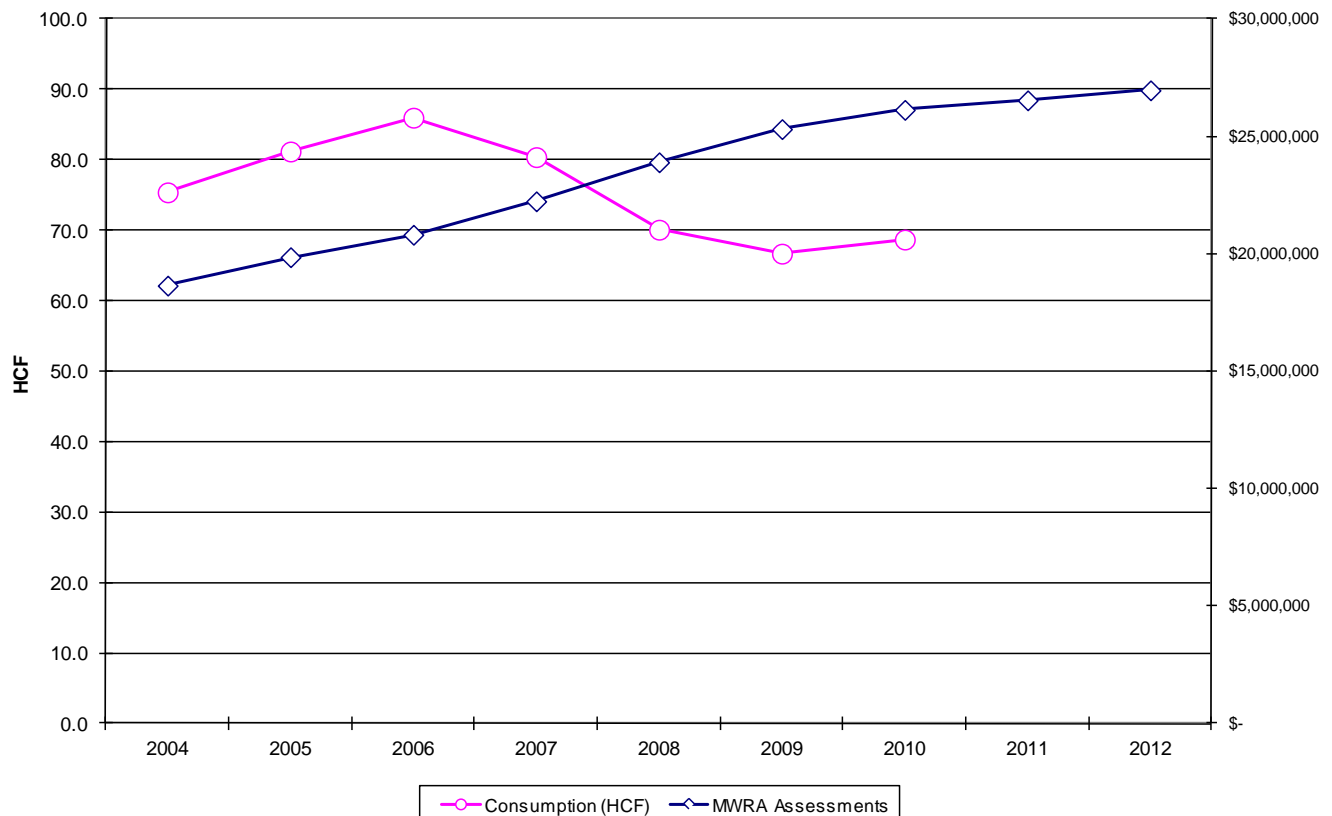
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 25% on water/sewer bill if income and age-based qualifications are met.

## Actual Water Usage versus MWRA Assessments





## Randolph (S)

### Residential Water Rates:

Last adjusted: August 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge: \$25.00/bill  
 0 – 50 CF \$ 3.25/HCF  
 >50 CF \$ 3.84/HCF

Billing Frequency: Semi-Annually

### Residential Sewer Rates:

Last adjusted: August 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge: \$25.00/bill  
 0 – 50 CF \$ 5.56/HCF  
 >50 CF \$ 8.99 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$451.80
Sewer	\$785.80
Combined	\$1,237.60
% change from 2010	6.4%

Annual Cost Actual Community Usage (79.0 HCF = DEP Data Provided by Community)	
Water	\$306.75
Sewer	\$489.24
Combined	\$795.99

### Commercial Water Rates:

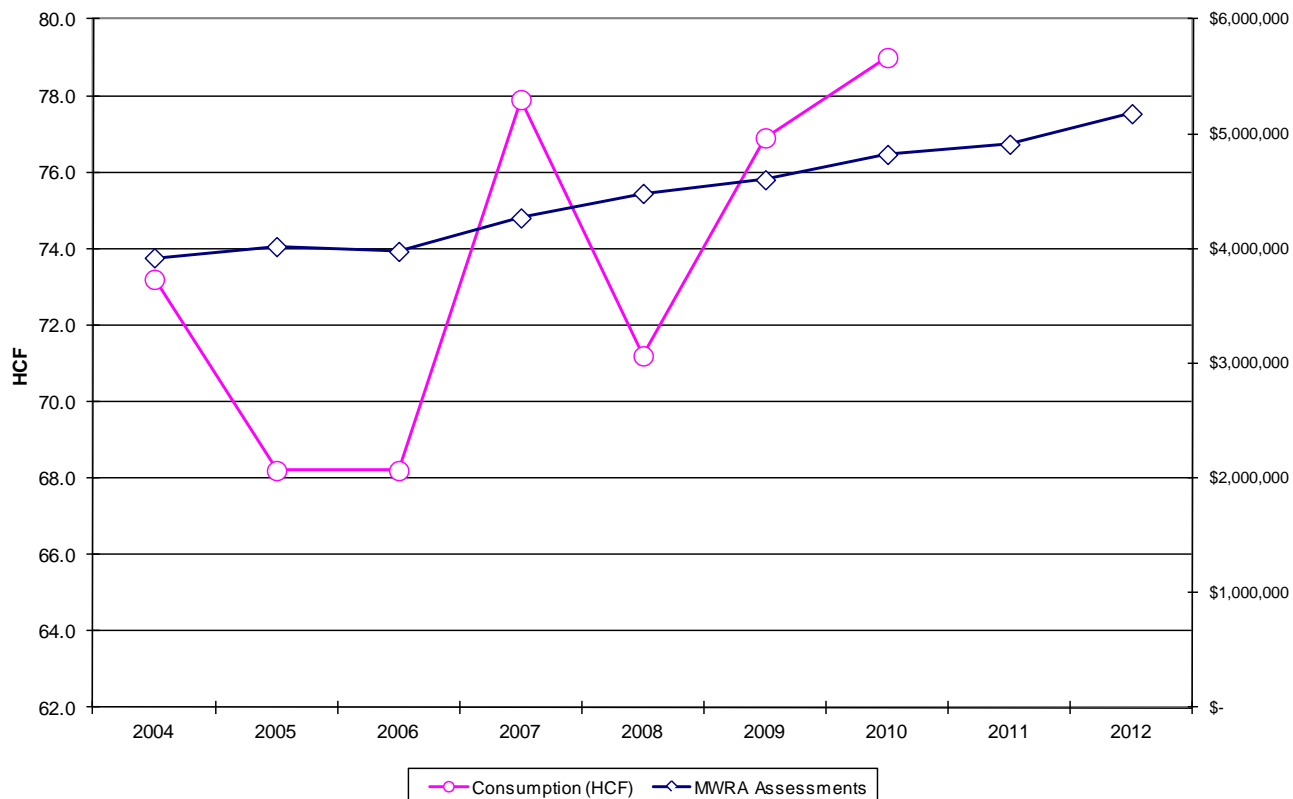
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior Discount: \$17.50 water and \$17.50 sewer

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Reading (W/S)

**Residential Water Rates:**

Last adjusted: September 2011  
 Next adjustment scheduled: September 2012  
 Fund: Enterprise  
 Minimum bill: \$16.54  
 All units \$ 8.27/HCF  
 Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: September 2011  
 Next adjustment scheduled: September 2012  
 Fund: Enterprise  
 Minimum bill: \$17.14  
 All units \$ 8.57/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$992.40
Sewer	\$1,028.40
Combined	\$2,020.80
% change from 2010	2.2%

Annual Cost Actual Community Usage (64.1 HCF = DEP Data Provided by Community)	
Water	\$530.11
Sewer	\$549.34
Combined	\$1,079.45

**Commercial Water Rates:**

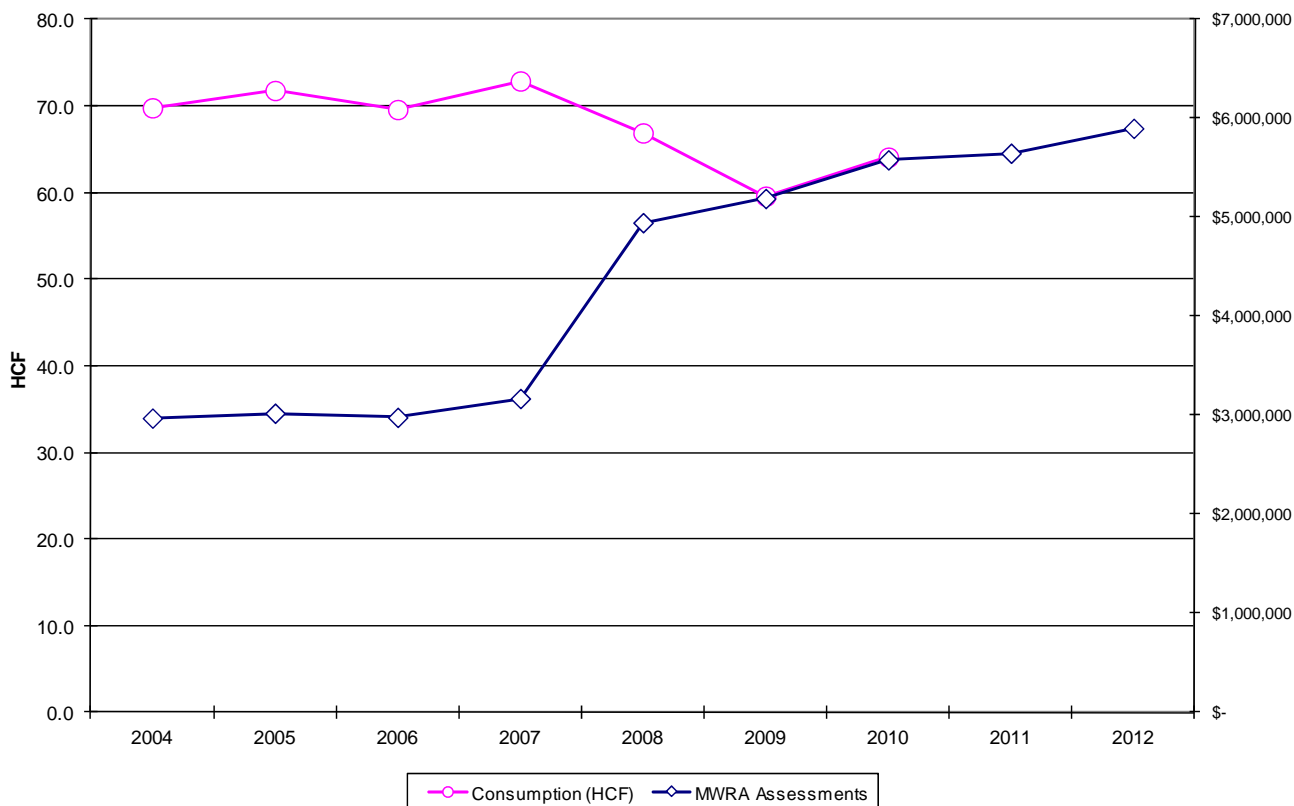
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



◆ Reading assesses a Storm Water fee of \$10.00/quarter.

## Revere (W/S)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$3.22/HCF  
 Billing Frequency: Residential: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$10.05/HCF  
 Based on 100% of water usage.  
 Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$386.40
Sewer	\$1,206.00
Combined	\$1,592.40
% change from 2010	0.0%

Annual Cost Actual Community Usage (55.1 HCF = DEP Data Provided by Community)	
Water	\$177.42
Sewer	\$553.76
Combined	\$731.18

### Commercial Water Rates:

All units: \$4.70/HCF

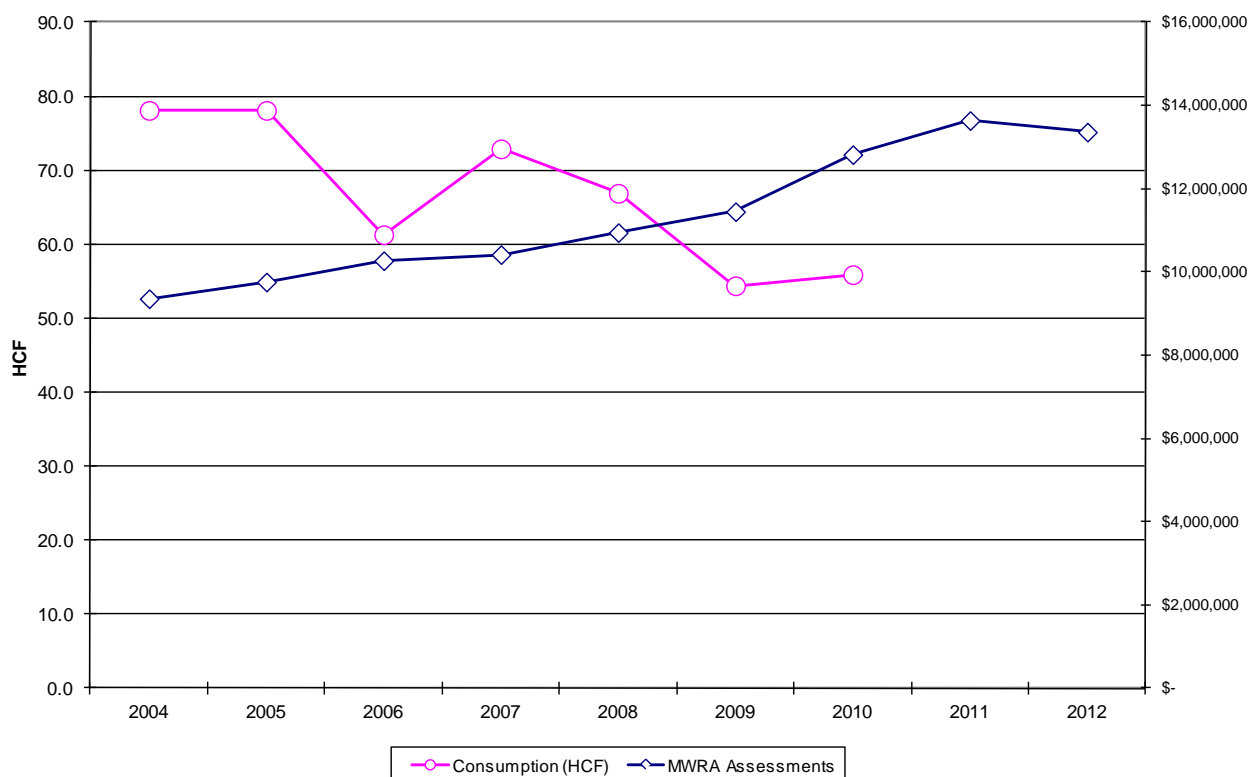
### Commercial Sewer Rates:

All units: \$14.20/HCF

#### Senior and/or Low Income Discounts:

- Senior discounts require 65+ years old and residence within the house
  - <70 kgal/year = 20% of previous year's water bill
  - >70 kgal/year = 10% of previous year's water bill
- Any 4+ family home = 5% discount
- Low income/handicap pay a \$250 flat rate if making under \$20,000/year for single applicants or \$40,000/year for joint applicants

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Saugus (W)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum Charge (20 HCF)	\$70.00
>20 – 30 HCF	\$ 3.72/HCF
>30 – 60 HCF	\$ 4.98 "
>60 – 100 HCF	\$ 6.23 "
>100 – 200 HCF	\$ 6.95 "
>200 – 500 HCF	\$ 7.79 "
>500 – 1,000 HCF	\$ 8.39 "
>1,000 HCF	\$ 8.63 "

Billing Frequency: Semi-Annually

### Residential Sewer Rates:

Last adjusted: November 2007  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum Charge (20 HCF)	\$60.00
>20 – 30 HCF	\$ 2.20/HCF
>30 – 60 HCF	\$ 3.00 "
>60 – 100 HCF	\$ 4.20 "
>100 – 200 HCF	\$ 5.20 "
>200 – 500 HCF	\$ 6.20 "
>500 – 1,000 HCF	\$ 6.90 "
>1,000 HCF	\$ 7.20 "

Based on 100% of water usage.

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

Water	\$513.20
Sewer	\$344.00
Combined	\$857.20
% change from 2010	5.0%

### Annual Cost Actual Community Usage (77.9 HCF = DEP Data Provided by Community)

Water	\$303.54
Sewer	\$217.70
Combined	\$521.24

### Commercial Water Rates:

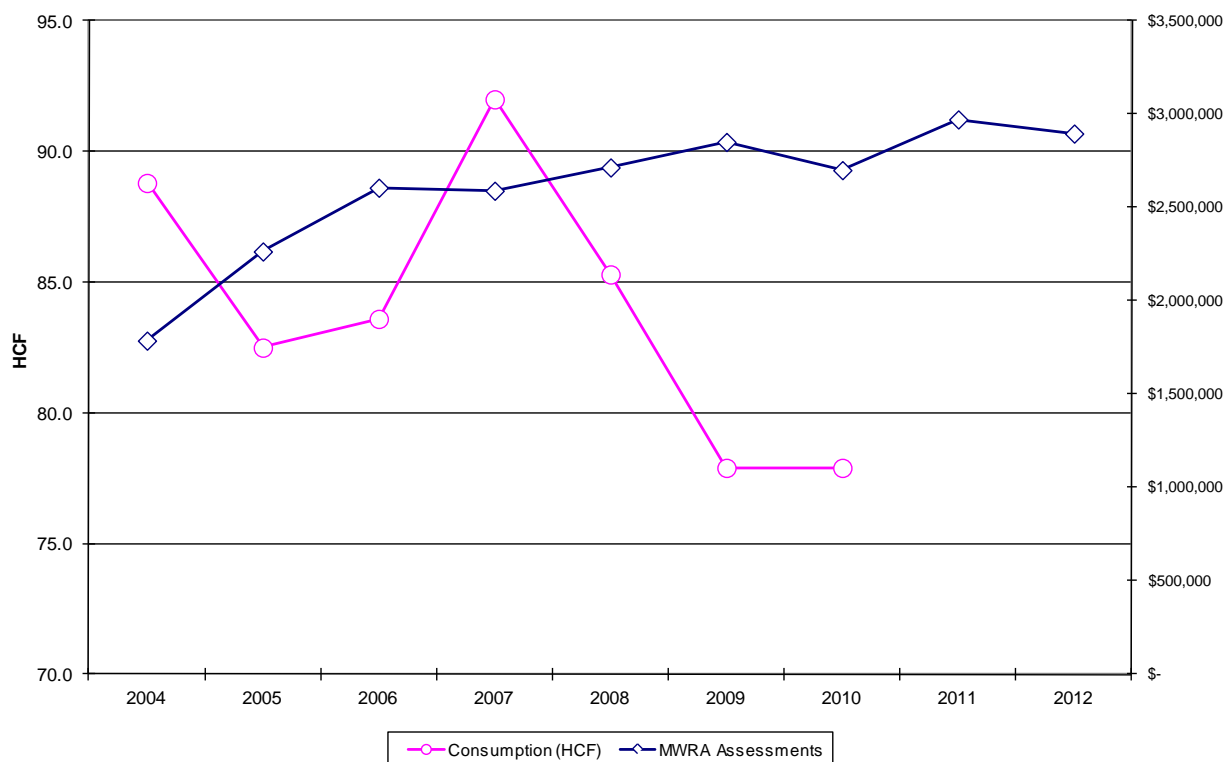
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: Neither

## Actual Water Usage versus MWRA Assessments



## Somerville (W/S)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 13 HCF \$3.62/HCF  
 >13 – 67 HCF \$5.22 "  
 >67 – 133 HCF \$5.48 "  
 >133 HCF \$5.68 "

Billing Frequency: Residential: Tri-Annually

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 13 HCF \$6.07/HCF  
 >13 – 67 HCF \$7.75 "  
 >67 – 133 HCF \$8.13 "  
 >133 HCF \$8.41 "

Based on 100% of water usage.

Commercial: Bi-Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$564.00
Sewer	\$864.48
Combined	\$1,428.48
% change from 2010	3.5%

Annual Cost Actual Community Usage (58.6 HCF = DEP Data Provided by Community)	
Water	\$243.44
Sewer	\$388.55
Combined	\$631.99

### Commercial Water Rates:

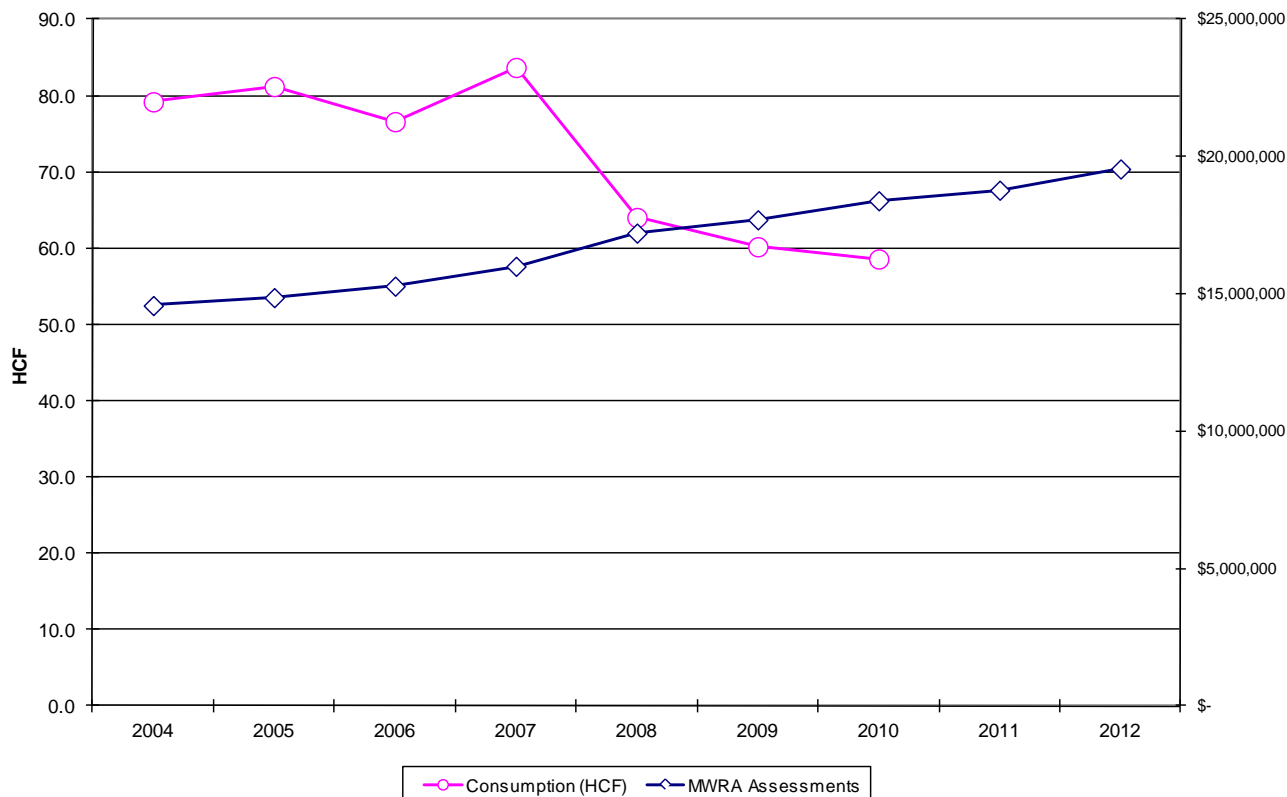
Same as residential

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

Same as residential

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## South Hadley (partial W)

**Residential Water Rates:**

Last adjusted: September 2009  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 Base charge \$5.00/family unit  
 0 – 2,500 HCF \$3.17/HCF  
 >2,500 HCF \$3.30 "  
 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	\$400.40
Sewer	Not Sewered
Combined	\$400.40
% change from 2010	0.0%

Annual Cost Actual Community Usage (99.2 HCF = DEP Data Provided by Community)	
Water	\$334.46
Sewer	Not Sewered
Combined	\$334.46

**Commercial Water Rates:**

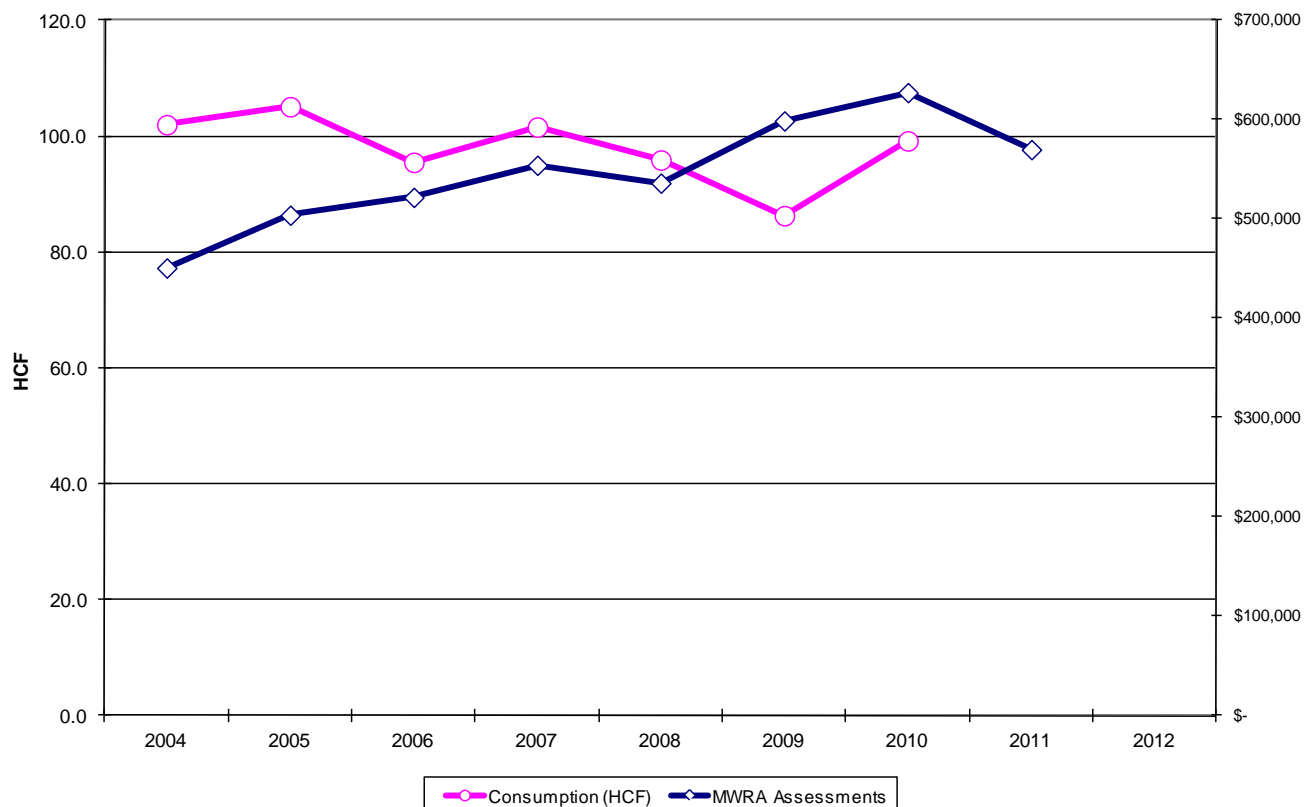
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



## Southborough (W)

### Residential Water Rates:

Last adjusted: March 2009  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue

Minimum charge (5/8" meter) \$27.58  
 includes first 10 HCF

>10 – 20 HCF \$ 3.50/HCF  
 >20 – 35 HCF \$ 4.00 "  
 >35 – 80 HCF \$ 5.00 "  
 >80 HCF \$ 6.00 "  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: n/a  
 Next adjustment scheduled: n/a  
 Fund: n/a

Community not sewered.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$410.32
Sewer	Not Sewered
Combined	\$410.32
% change from 2010	0.0%

Annual Cost Actual Community Usage (113.3 HCF = DEP Data Provided by Community)	
Water	\$383.52
Sewer	Not Sewered
Combined	\$383.52

### Commercial Water Rates:

Same as residential

### Commercial Sewer Rates:

Not sewered

Senior and/or Low Income Discounts: 25% off minimum bill for senior citizens.

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Stoneham (W/S)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$4.40/HFC  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$9.00/HFC  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$528.00
Sewer	\$1,080.00
Combined	\$1,608.00
% change from 2010	3.9%

Annual Cost Actual Community Usage (75.7 HCF = DEP Data Provided by Community)	
Water	\$325.51
Sewer	\$651.02
Combined	\$976.53

### Commercial Water Rates:

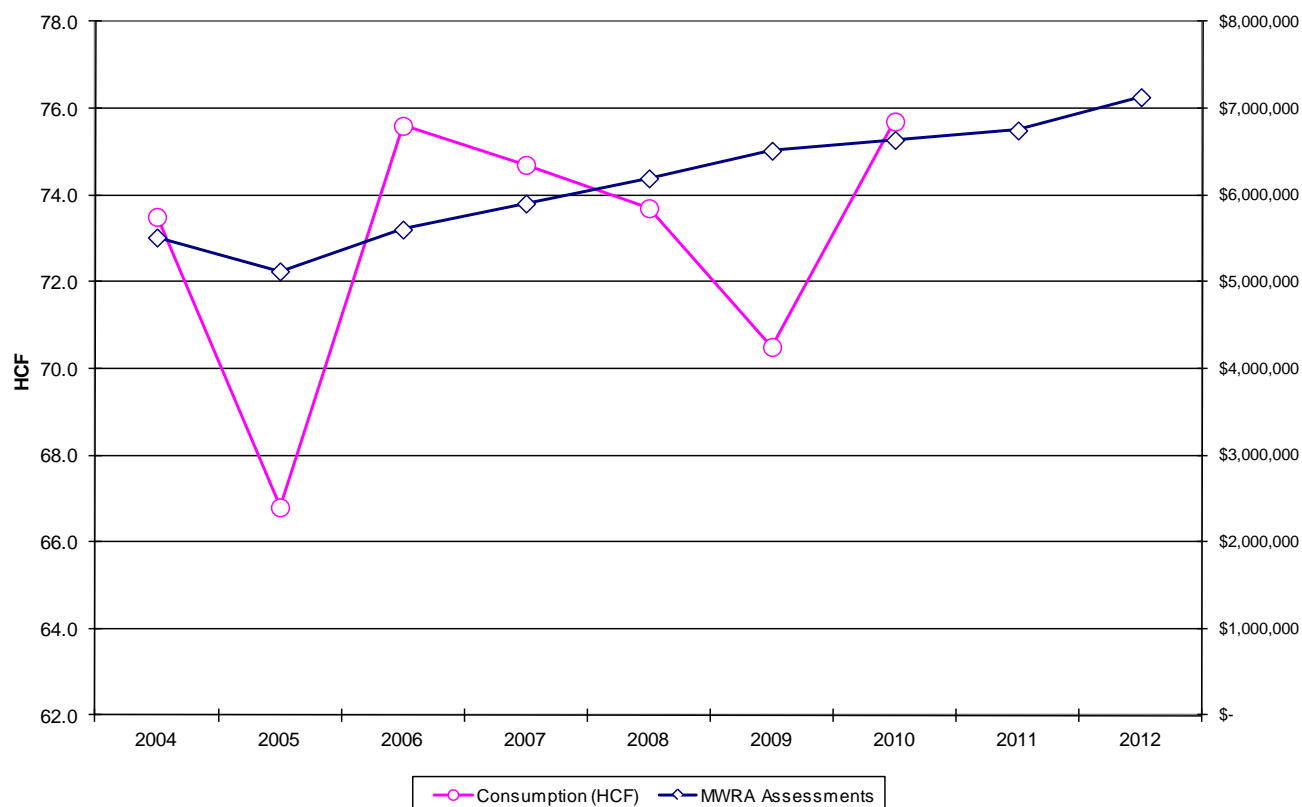
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: \$12.50 for water and \$37.50 for sewer

## Actual Water Usage versus MWRA Assessments





## Stoughton (S/ partial W)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Service Charge (5/8" meter) \$10.93/bill  
 0 – 26 HCF \$ 3.51/HCF  
 >26 – 59 HCF \$ 5.18 "  
 >59 HCF \$ 7.18 "

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum charge (7.8 HCF) \$72.62  
 All units \$ 9.31/HFC  
 Based on 100% of water usage.

Customers with private wells pay a flat charge per billing period of: \$186.21 per condominium, \$279.30 per private home.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$491.64
Sewer	\$1,117.20
Combined	\$1,608.84
% change from 2010	5.0%

Annual Cost Actual Community Usage (60.3 HCF = DEP Data Provided by Community)	
Water	\$255.37
Sewer	\$534.86
Combined	\$790.23

### Commercial Water Rates:

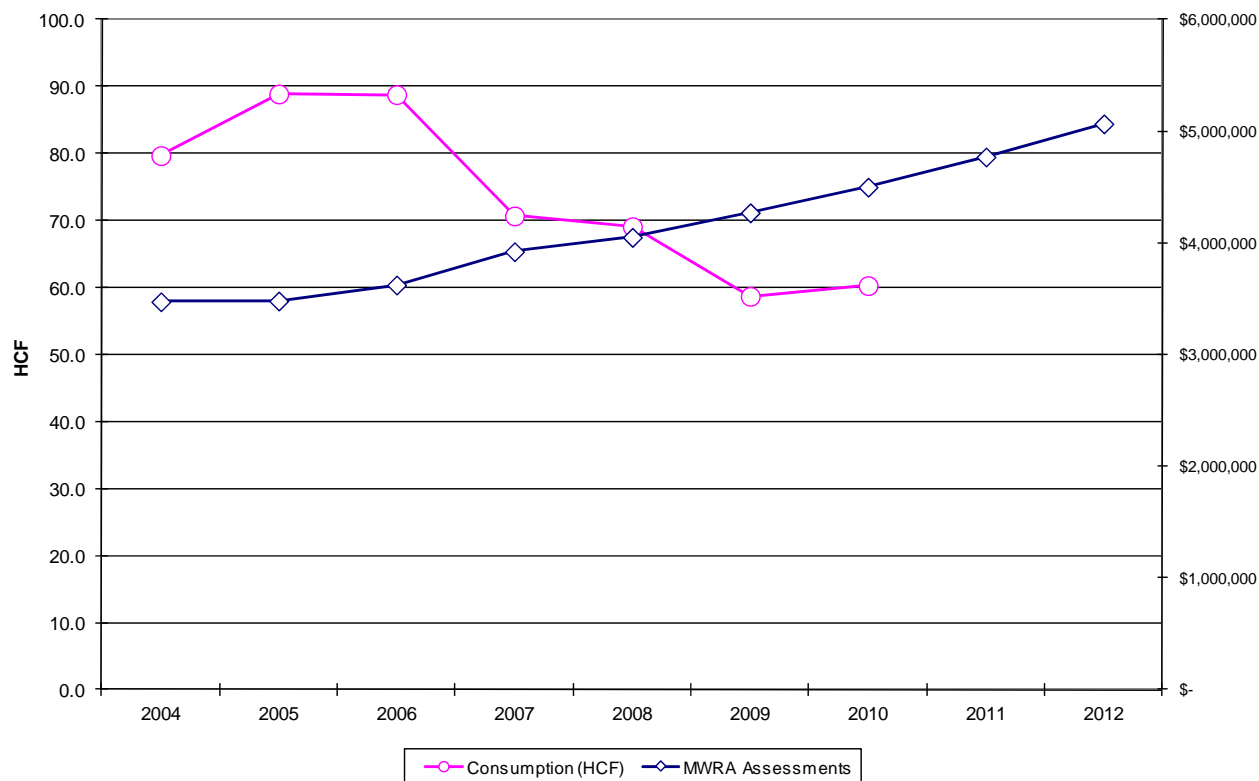
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 15% discount on water only for residents 70 and above.

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Swampscott (W)

### Residential Water Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2011  
 Fund: Enterprise  
 Base Charge \$11.00/bill  
 All units \$ 6.40/HCF  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2010  
 Next adjustment scheduled: July 2011  
 Fund: Enterprise  
 Base Charge \$8.75/bill  
 All units \$4.99/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$812.00
Sewer	\$633.80
Combined	\$1,445.80
% change from 2010	0.0%

Annual Cost Actual Community Usage (99.3 HCF = DEP Data Provided by Community)	
Water	\$679.52
Sewer	\$610.35
Combined	\$1,289.87

### Commercial Water Rates:

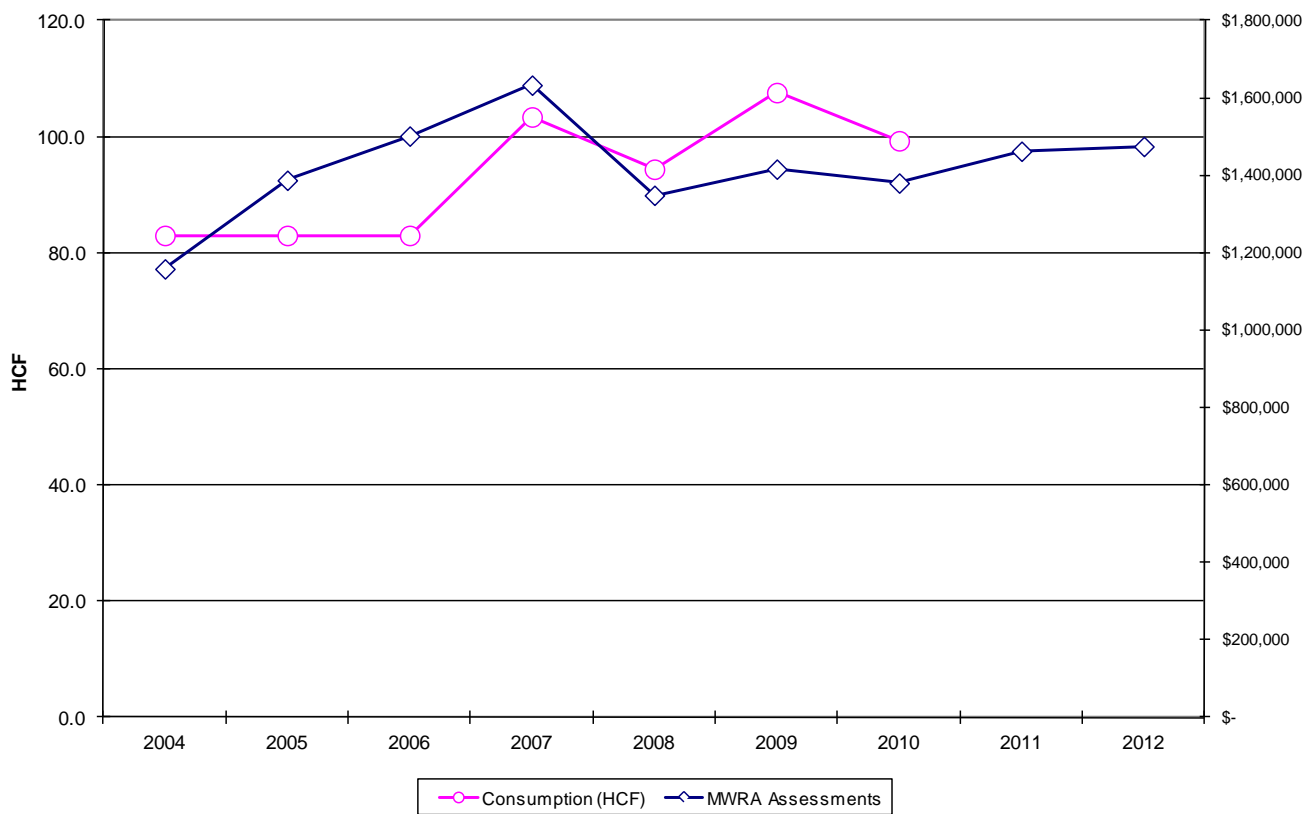
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



## Wakefield (S/ partial W)

### Residential Water Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$5.00/HCF  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$9.88/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$540.00
Sewer	\$1,067.04
Combined	\$1,607.04
% change from 2010	3.9%

Annual Cost Actual Community Usage (74.7 HCF = DEP Data Provided by Community)	
Water	\$336.15
Sewer	\$664.23
Combined	\$1,000.38

### Commercial Water Rates:

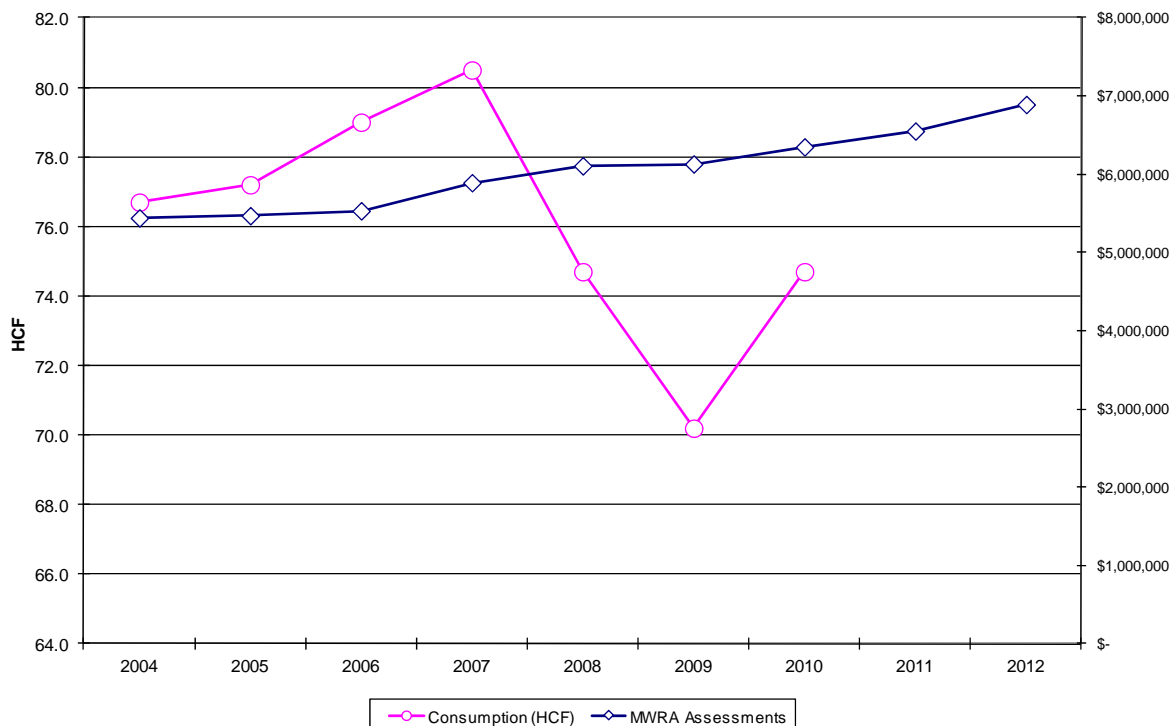
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None. Please refer to the note below for general discount information.

### Actual Water Usage versus MWRA Assessments



- ♦ 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 \$585.60 for water and \$1,132.80 for sewer.

## Walpole (S)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$4.276/HCF

Billing Frequency: Residential: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 All units \$7.938/HCF

Based on 80% of water usage.  
 Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$513.12
Sewer	\$762.05
Combined	\$1,275.17
% change from 2010	-3.5%

Annual Cost Actual Community Usage (85.0 HCF = DEP Data Provided by Community)	
Water	\$363.46
Sewer	\$539.78
Combined	\$903.24

**Commercial Water Rates:**

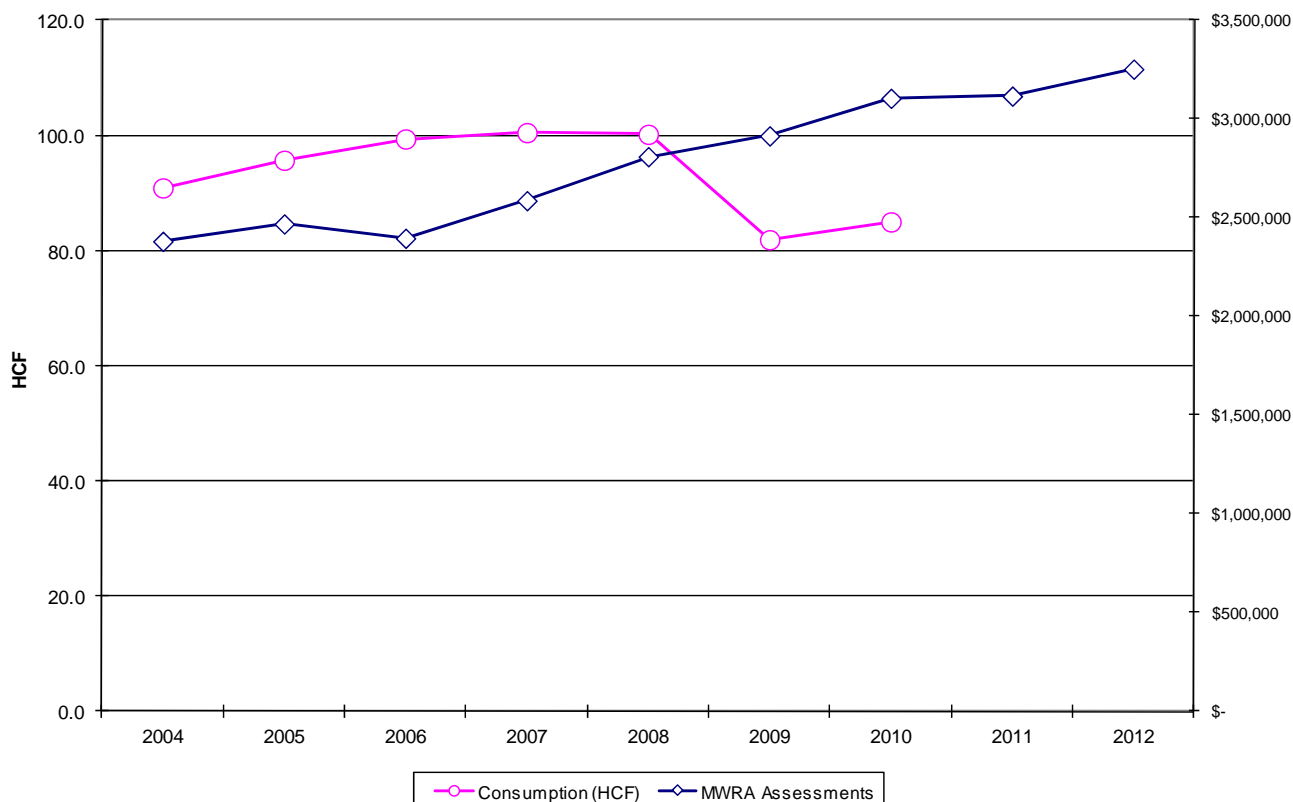
Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

### Actual Water Usage versus MWRA Assessments



# Waltham (W/S)

## Residential Water Rates:

Last adjusted: January 2010  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Minimum Charge: \$9.00  
 0 – 21 HCF \$3.20/HCF  
 >21 – 45 HCF \$4.28 "  
 >45 – 120 HCF \$6.80 "  
 >120 HCF \$9.09 "

## Residential Sewer Rates:

Last adjusted: January 2010  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Minimum Charge: \$ 5.69  
 0 – 21 HCF \$ 5.69/HCF  
 >21 – 45 HCF \$ 7.35 "  
 >45 – 120 HCF \$10.89 "  
 >120 HCF \$13.16 "

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	\$422.88
Sewer	\$742.56
Combined	\$1,165.44
% change from 2010	14.2%

Annual Cost Actual Community Usage (80.9 HCF = DEP Data Provided by Community)	
Water	\$258.88
Sewer	\$460.32
Combined	\$719.20

## Commercial Water Rates:

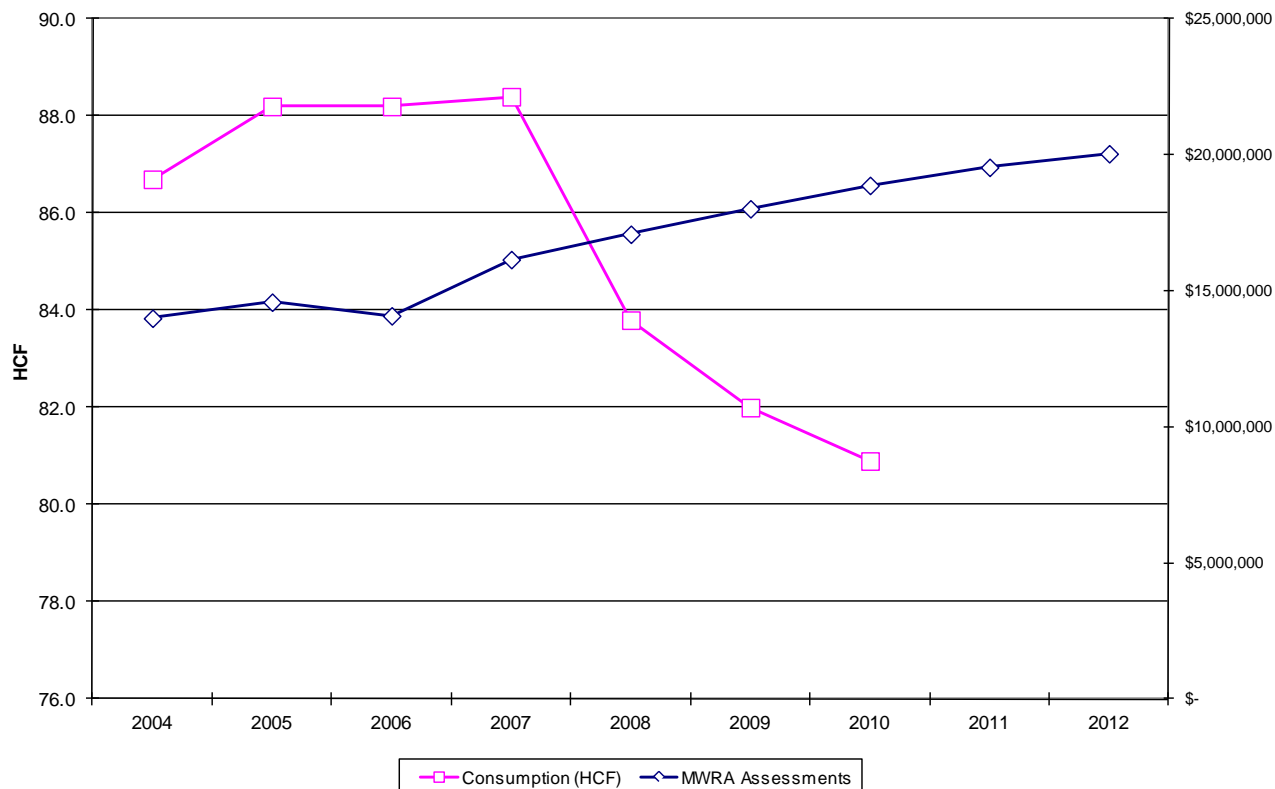
Same as residential

## Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

## Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Watertown (W/S)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge (5/8") \$5.54/bill  
 0 – 30 HCF \$3.61/HCF  
 >30 – 300 HCF \$5.62 "  
 >300 HCF \$8.87 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 30 HCF \$ 7.26/HCF  
 >30 – 300 HCF \$ 9.37 "  
 >300 HCF \$12.57 "  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$455.36
Sewer	\$871.20
Combined	\$1,326.56
% change from 2010	0.0%

Annual Cost Actual Community Usage (64.9 HCF = DEP Data Provided by Community)	
Water	\$256.45
Sewer	\$471.17
Combined	\$727.62

**Commercial Water Rates:**

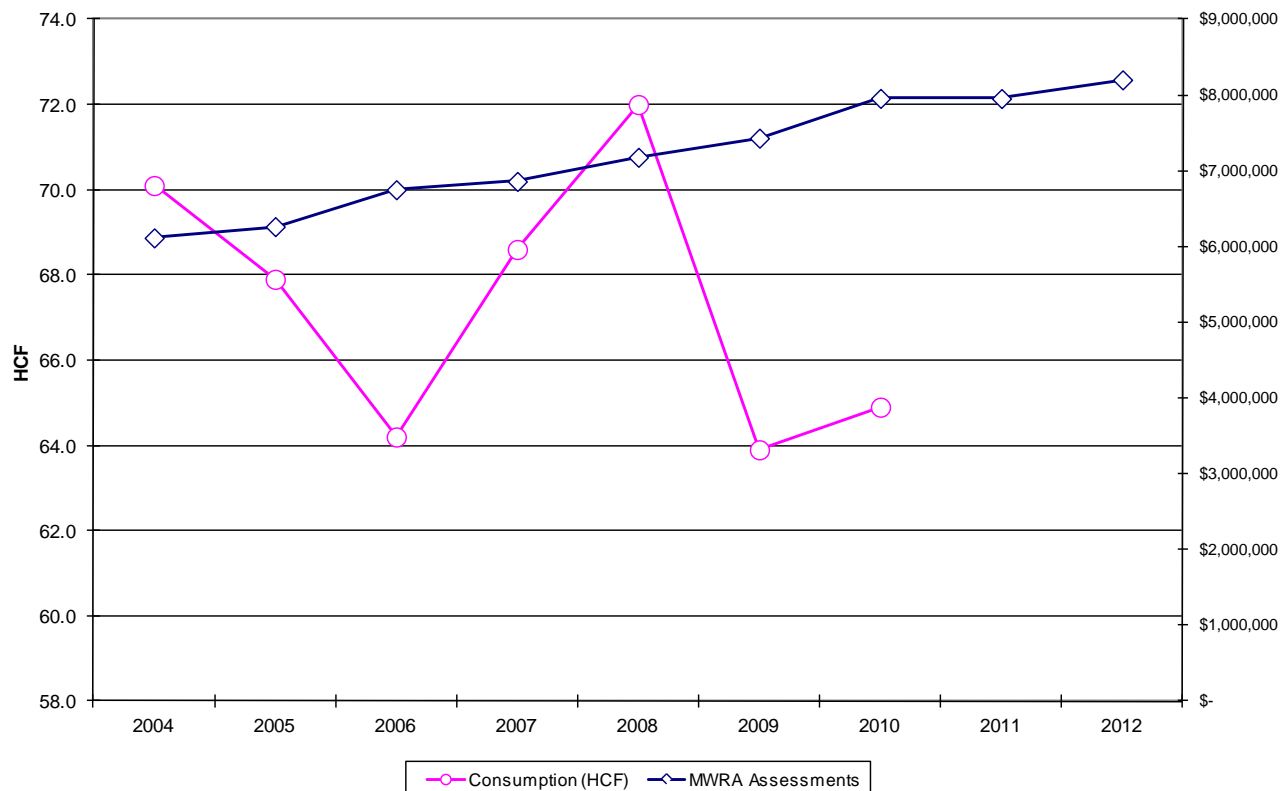
Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: 20% for both water and sewer

### Actual Water Usage versus MWRA Assessments



## Wellesley (S/partial W)

### Residential Water Rates:

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

Base charge \$4.64/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 2010  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Base charge \$1.50/bill  
 All units \$7.69/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$445.68
Sewer	\$940.80
Combined	\$1,386.48
% change from 2010	6.1%

Annual Cost Actual Community Usage (102.9 HCF = DEP Data Provided by Community)	
Water	\$385.66
Sewer	\$809.30
Combined	\$1,194.96

### Commercial Water Rates:

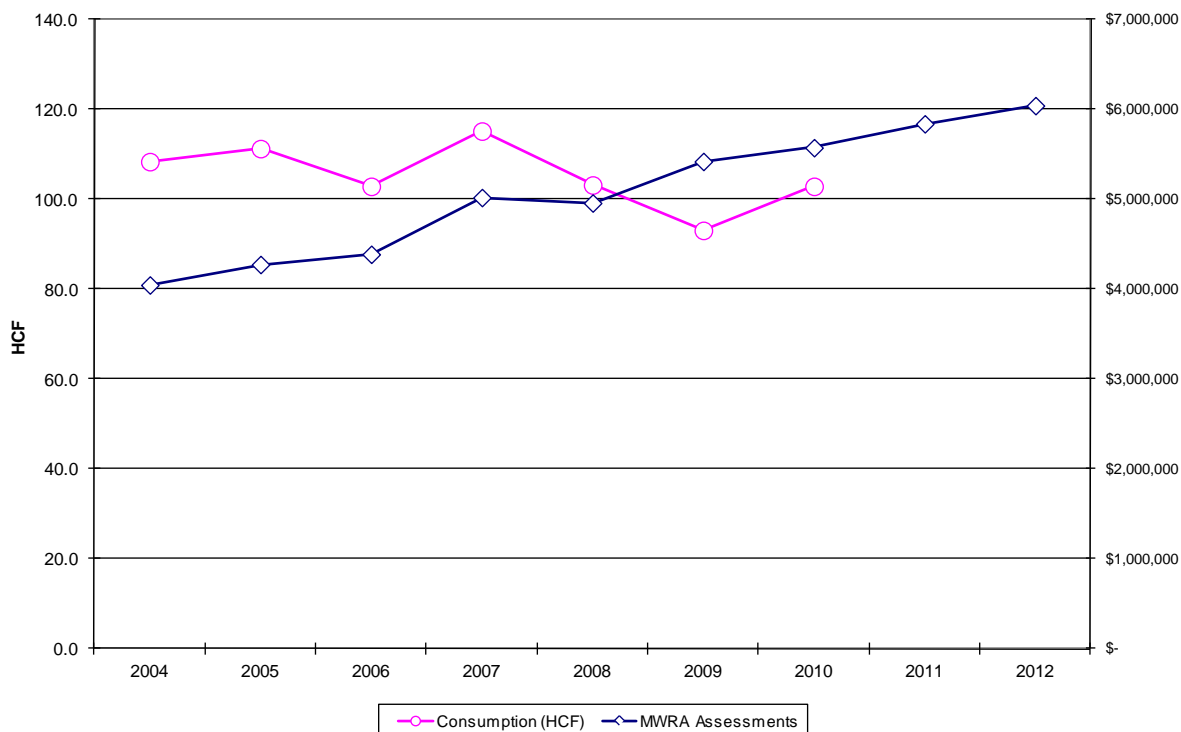
1 – 5 HCF \$2.99  
 5 – 12 HCF \$3.51  
 > 12 HCF \$5.57

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Weston (W)

**Residential Water Rates:**

Last adjusted: January 2010  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$21.00/bill  
 1 – 50 HCF \$ 1.35 "  
 >50 HCF \$ 5.10 "

Billing Frequency: Semi-Annually

**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	\$279.00
Sewer	Not Sewered
Combined	\$279.00
% change from 2010	6.5%

Annual Cost Actual Community Usage (174.9 HCF = DEP Data Provided by Community)	
Water	\$558.99
Sewer	Not Sewered
Combined	\$558.99

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: Both

**Commercial Sewer Rates:**

Not sewered

### Actual Water Usage versus MWRA Assessments





## Westwood (S)

### Residential Water Rates:

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

Minimum charge (5/8" meter)  
 includes first 5 HCF \$35.52/quarter  
 >5 – 51 HCF \$ 4.17/HCF  
 >52 – 75 HCF \$ 6.77 "  
 >75 HCF \$ 8.77 "

### Residential Sewer Rates:

Last adjusted: September 2011  
 Next adjustment scheduled: September 2012  
 Fund: Enterprise

Minimum charge (5/8" meter)  
 0 – 25 HCF \$15.00/quarter  
 >25 – 70 HCF \$ 5.30/HCF  
 >70 HCF \$ 7.90 "  
 \$14.20 "

Billing Frequency: Quarterly

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$580.44
Sewer	\$748.00
Combined	\$1,328.44
% change from 2010	4.2%

Annual Cost Actual Community Usage (73.3 HCF = DEP Data Provided by Community)	
Water	\$397.70
Sewer	\$448.49
Combined	\$846.19

### Commercial Water Rates:

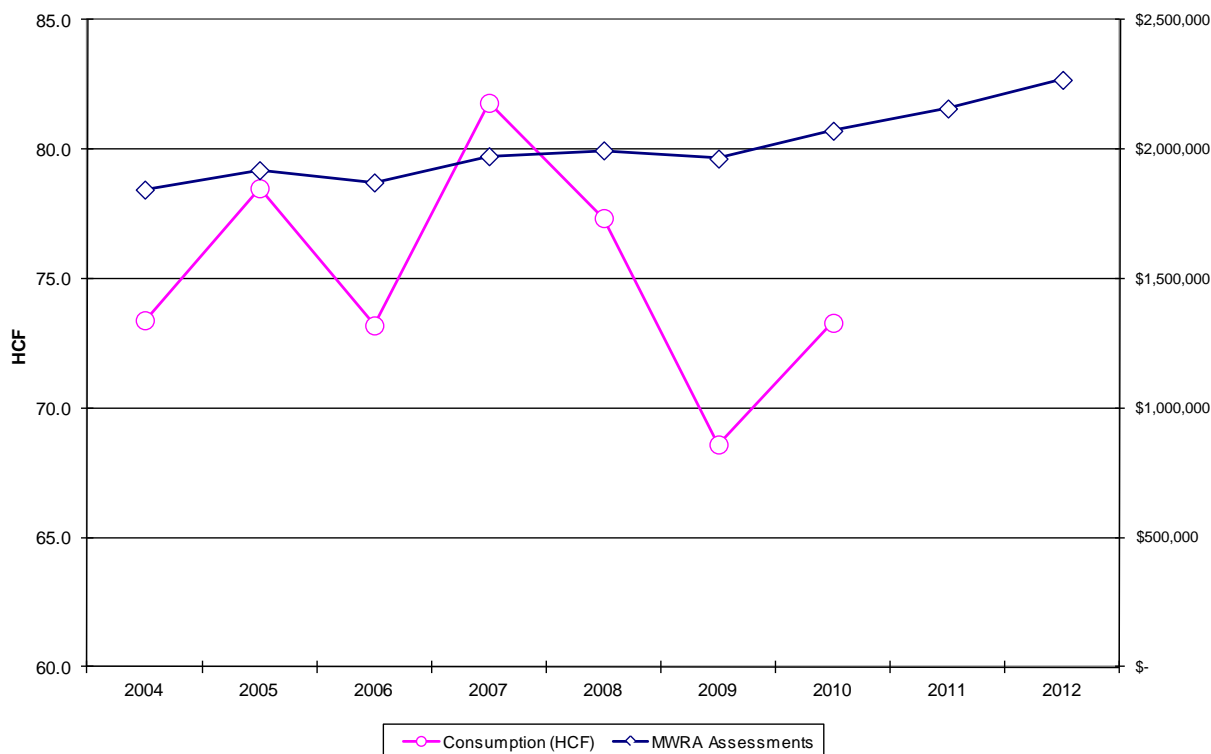
Minimum charge (5/8" meter)  
 includes first 9 HCF \$52.71  
 All units in excess of allowance \$ 4.17/HCF

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: Neither

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Weymouth (\$)

**Residential Water Rates:**

Last adjusted: July 2010  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$11.97/bill  
 0 – 27 HCF \$ 4.38/HCF  
 >27 HCF \$ 7.33 "

Billing Frequency: Residential: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$ 5.18/bill  
 0 – 27 HCF \$ 7.00/HCF  
 >27 HCF \$12.01 "

Based on 100% of water usage.  
 Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$608.88
Sewer	\$920.84
Combined	\$1,529.72
% change from 2010	2.9%

Annual Cost Actual Community Usage (63.0 HCF = DEP Data Provided by Community)	
Water	\$323.82
Sewer	\$461.72
Combined	\$785.54

**Commercial Water Rates:**

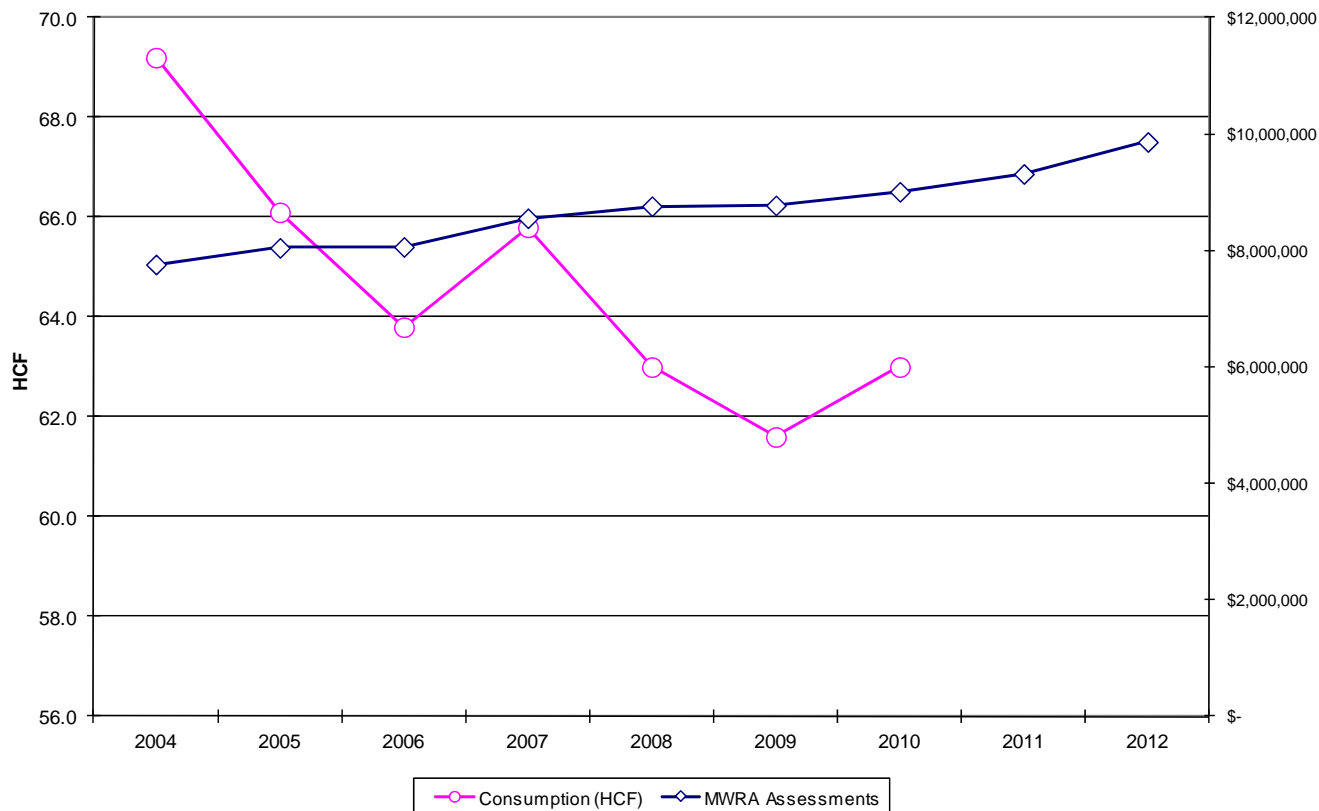
Same as residential

Senior and/or Low Income Discounts: \$20/year for water

**Commercial Sewer Rates:**

Same as residential

### Actual Water Usage versus MWRA Assessments



## Wilbraham (W)

### Residential Water Rates:

Last adjusted: April 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 Minimum bill \$50.25  
 0 – 100 HCF \$ 3.35/HCF  
 >100 – 200 HCF \$ 3.55 "  
 >200 HCF \$ 3.75 "

Billing Frequency: Semi-annually

### Residential Sewer Rates:

Last adjusted: October 2008  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 Minimum bill \$52.50  
 All units \$ 4.10/HCF

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$402.00
Sewer	\$492.00
Combined	\$894.00
% change from 2010	2.8%

Annual Cost Actual Community Usage (78.3 HCF = DEP Data Provided by Community)	
Water	\$262.31
Sewer	\$321.03
Combined	\$583.34

### Commercial Water Rates:

All units \$3.35/HCF  
 Commercial Minimum: same as residential

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

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

### Actual Water Usage versus MWRA Assessments



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

## Wilmington (S/partial W)

### Residential Water Rates:

Last adjusted: September 2008  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue

0 – 10 HCF \$3.27/HCF  
 >10 – 20 HCF \$3.62 "  
 >20 – 30 HCF \$4.35 "  
 >30 HCF \$5.81 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: April 2010  
 Next adjustment scheduled: Unknown  
 Fund: General

All units \$4.99/HCF

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$449.60
Sewer	\$598.80
Combined	\$1,048.40
% change from 2010	0.0%

Annual Cost Actual Community Usage (81.9 HCF = DEP Data Provided by Community)	
Water	\$283.87
Sewer	\$408.68
Combined	\$692.55

### Commercial Water Rates:

0 – 50 HCF \$3.57/HCF  
 >50 – 200 HCF \$3.82 "  
 >200 HCF \$4.18 "

Senior and/or Low Income Discounts: None

### Commercial Sewer Rates:

All units \$5.97/HCF

## Actual Water Usage versus MWRA Assessments



## Winchester (S/ partial W)

### Residential Water Rates:

Last adjusted: November 2006  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Service charge \$5.00/bill  
 0 – 15 HCF \$1.22/HCF  
 >15 – 45 HCF \$3.04 "  
 >45 HCF \$4.86 "

Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: November 2006  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

0 – 15 HCF \$1.25/HCF  
 >15 – 45 HCF \$3.97 "  
 >45 HCF \$6.16 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$275.60
Sewer	\$313.20
Combined	\$588.80
% change from 2010	0.0%

Annual Cost Actual Community Usage (102.6 HCF = DEP Data Provided by Community)	
Water	\$222.70
Sewer	\$244.12
Combined	\$466.83

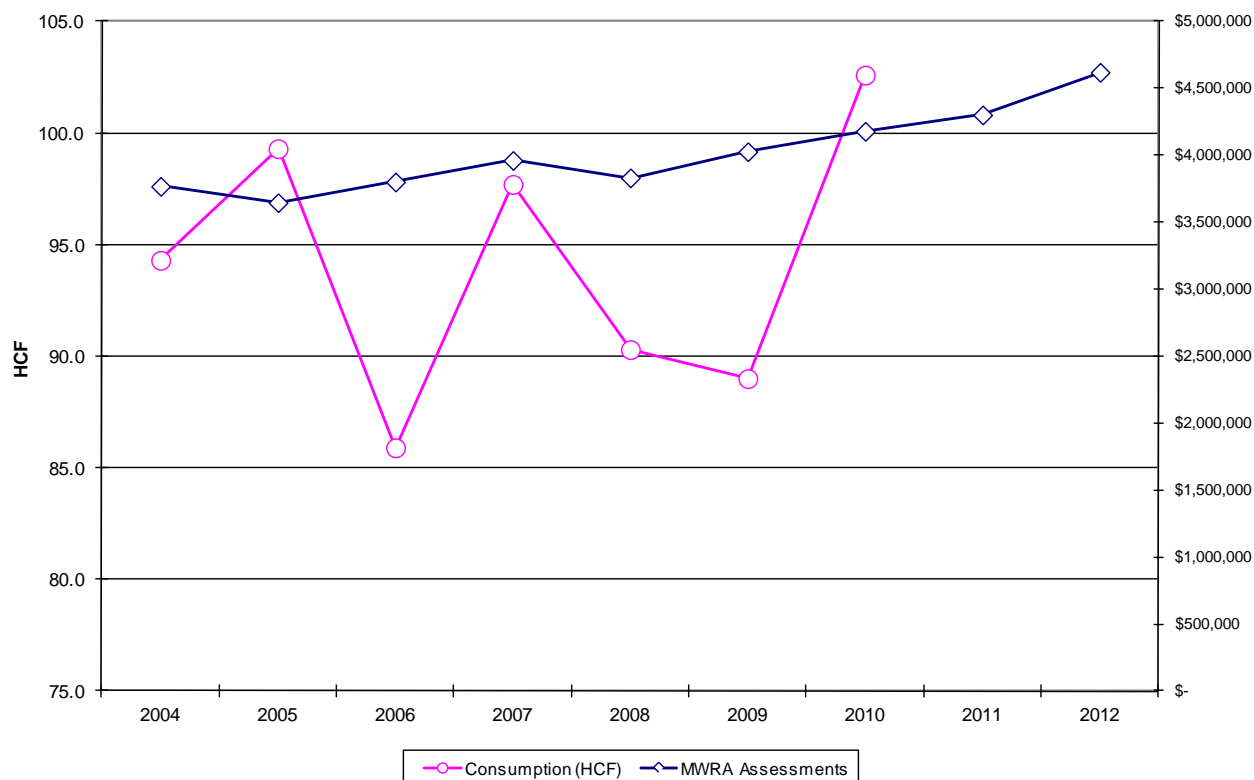
### Commercial Water Rates:

0 – 75 HCF \$4.92/HCF  
 >75 HCF \$6.03 "  
 Senior and/or Low Income Discounts: 20%

### Commercial Sewer Rates:

0 – 75 HCF \$6.42/HCF  
 >75 HCF \$8.71 "

## Actual Water Usage versus MWRA Assessments



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

## Winthrop (W/S)

### Residential Water Rates:

Last adjusted: July 2009  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 Minimum charge \$18.27/quarter  
 All units \$ 4.99/HCF  
 Billing Frequency: Quarterly

### Residential Sewer Rates:

Last adjusted: July 2009  
 Next adjustment scheduled: No answer  
 Fund: Enterprise  
 Minimum charge \$31.37/quarter  
 All units \$ 8.32/HCF  
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$598.80
Sewer	\$998.40
Combined	\$1,597.20
% change from 2010	0.0%

Annual Cost Actual Community Usage (60.8 HCF = DEP Data Provided by Community)	
Water	\$303.39
Sewer	\$505.86
Combined	\$809.25

### Commercial Water Rates:

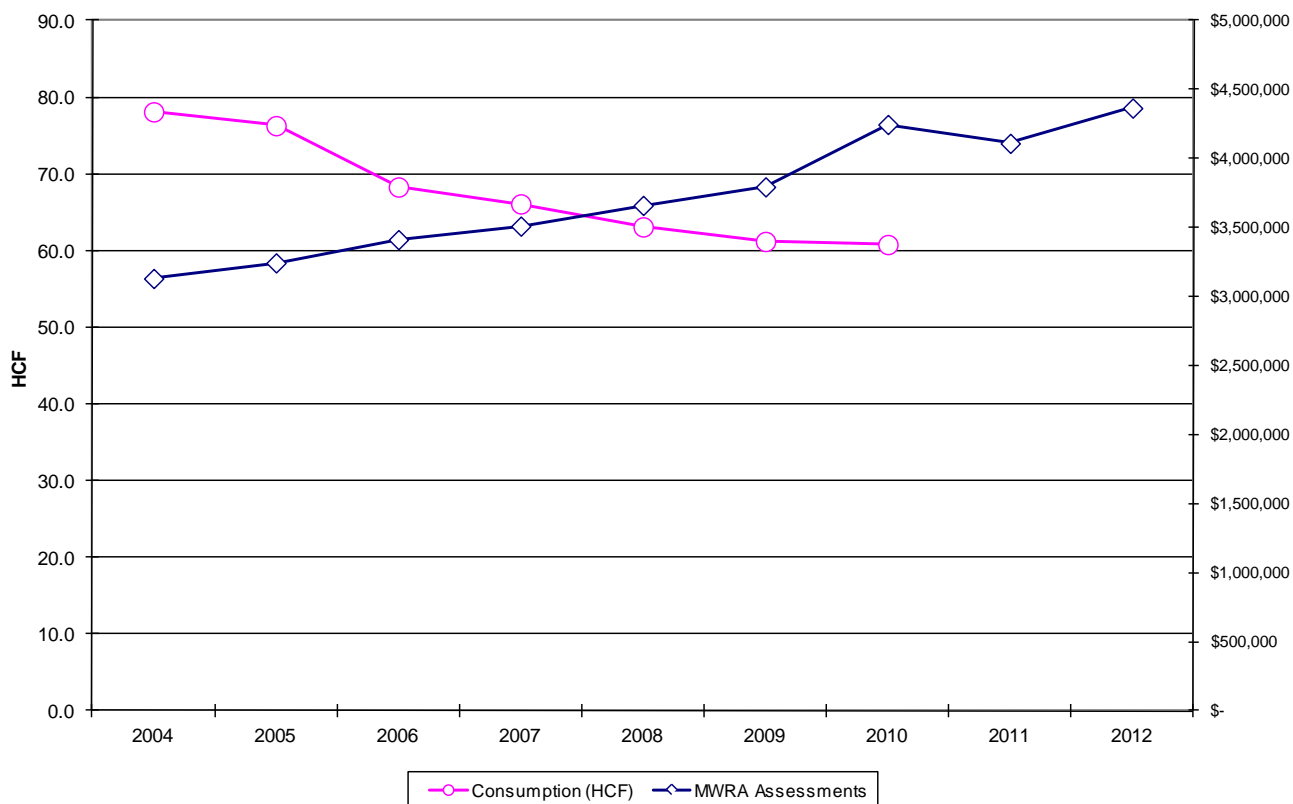
Same as residential

### Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

### Actual Water Usage versus MWRA Assessments



## Woburn (S/ partial W)

**Residential Water Rates:**

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

Flat rate of \$102.50 per bill

**Residential Sewer Rates:**

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

Flat rate of \$164.00 per bill

Billing Frequency: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
Water	\$205.00
Sewer	\$328.00
Combined	\$533.00
% change from 2010	0.0%

Annual Cost Actual Community Usage (115.4 HCF = DEP Data Provided by Community)	
Water	\$205.00
Sewer	\$328.00
Combined	\$533.00

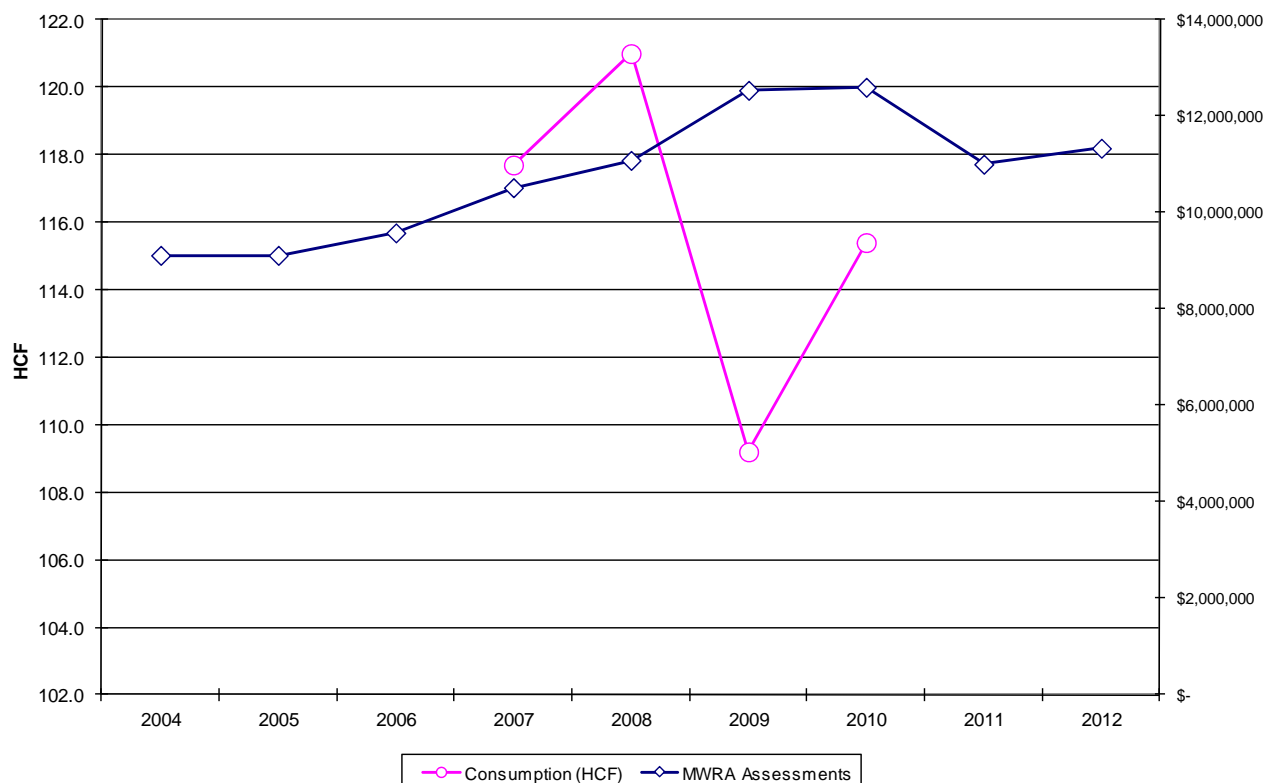
**Commercial Water Rates:**

Minimum charge: \$113.21  
 All units \$ 4.60/HCF  
 Senior and/or Low Income Discounts: Water 20% discount, Sewer 66% discount

**Commercial Sewer Rates:**

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

### Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2010 or best available data. Please see Introduction for more detail.**

## Worcester (partial W)

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 Minimum charge \$4.50/quarter  
 All units \$3.25/HCF

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise  
 Minimum charge \$10.00/quarter  
 All units \$ 5.40/HCF  
 Based on 80% of water usage.  
 (For meters 1" and larger, sewer usage is based upon 100% of water usage)

Billing Frequency: Mostly Quarterly, some Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$390.00
Sewer	\$518.40
Combined	\$908.40
% change from 2010	5.2%

Annual Cost Actual Community Usage (79.0 HCF = DEP Data Provided by Community)	
Water	\$256.75
Sewer	\$341.28
Combined	\$598.03

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential (see note above)

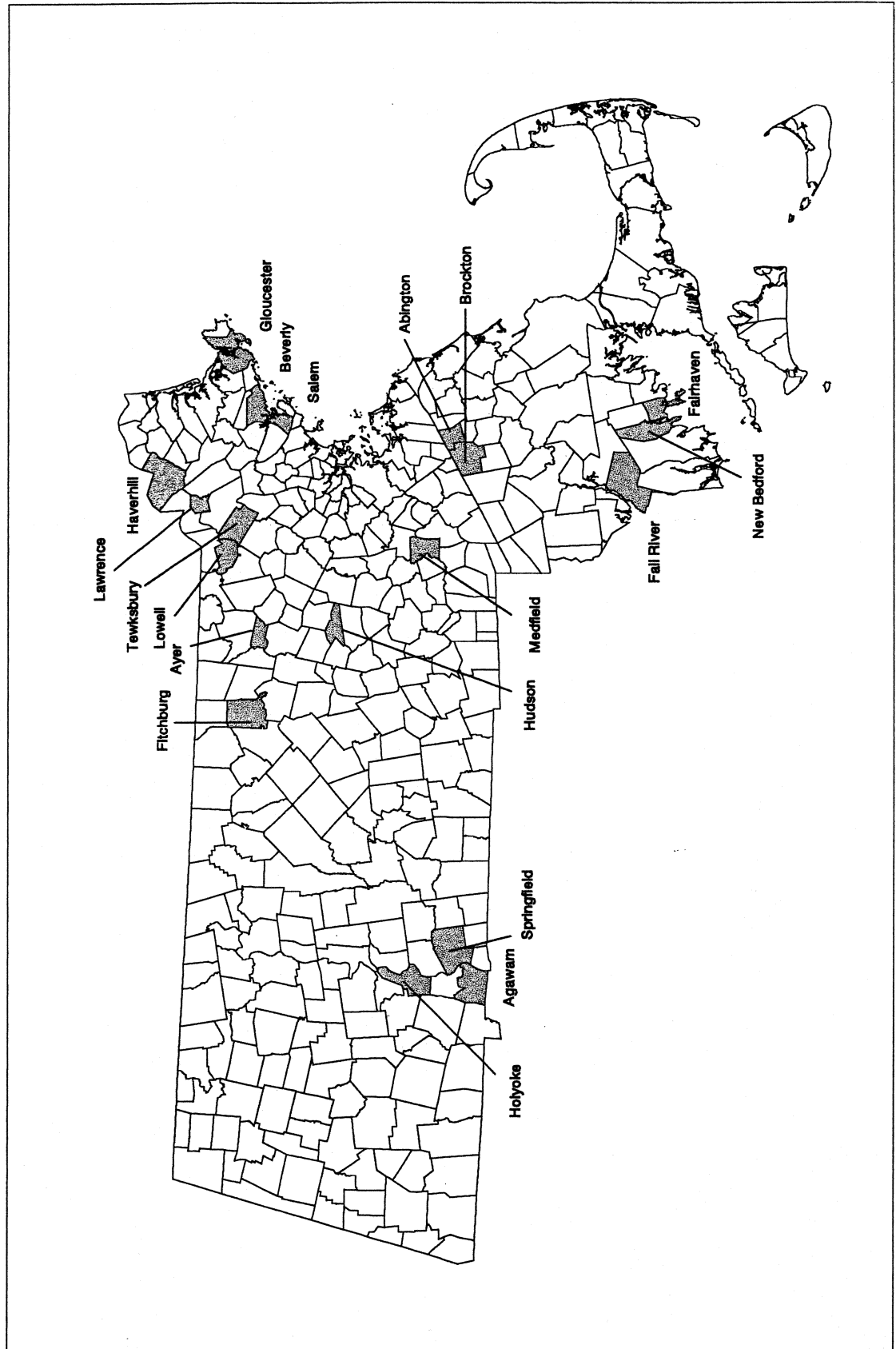
Senior and/or Low Income Discounts: \$37.50/quarter for eligible residents age 65 and over

### Actual Water Usage versus MWRA Assessments





# SELECT NON-MWRA MASSACHUSETTS COMMUNITIES 2011 WATER AND SEWER CHARGES

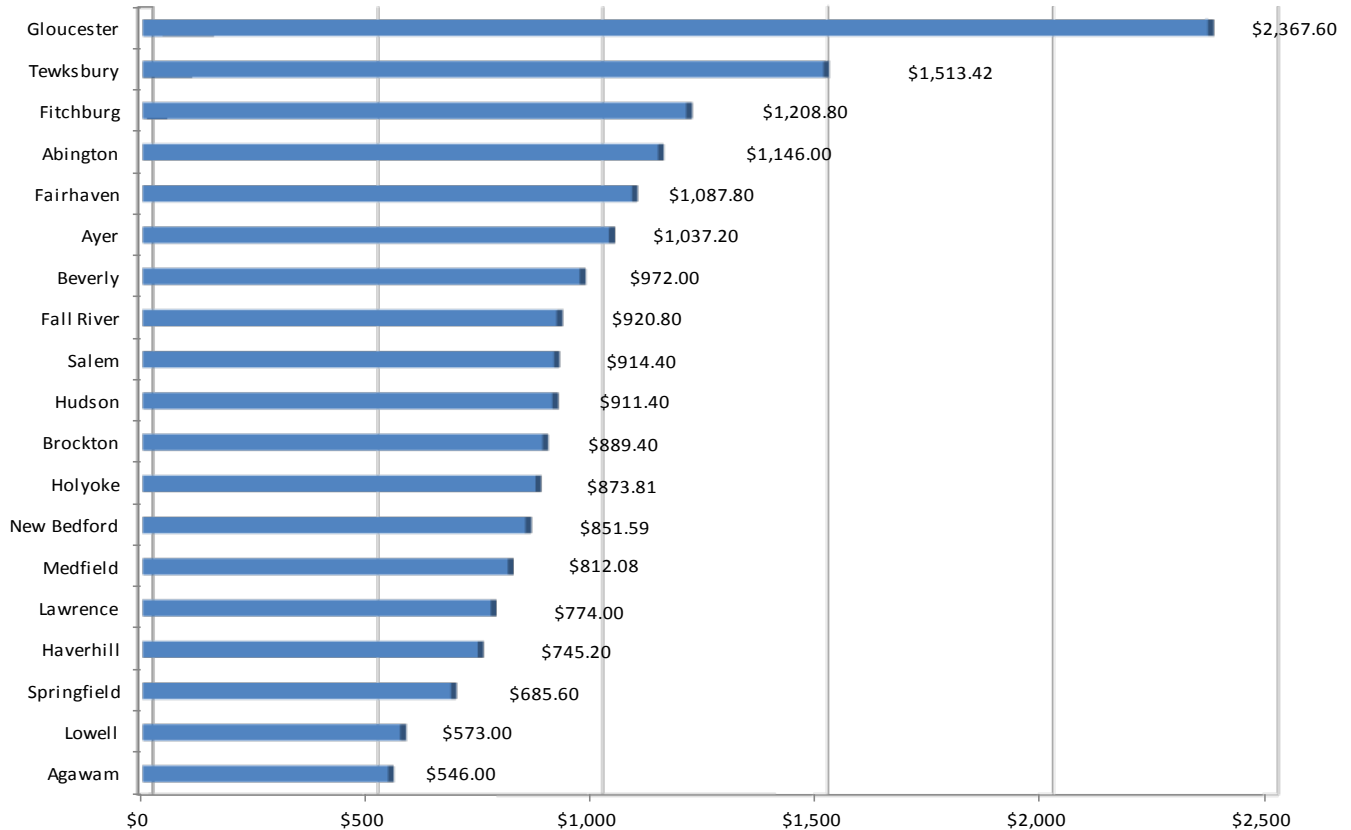


**COMPARATIVE ANNUAL RESIDENTIAL WATER AND SEWER CHARGES FOR SELECTED  
NON-MWRA COMMUNITIES IN MASSACHUSETTS  
2011**

	Water	Sewer	Combined	Change
Abington	\$506.00	\$640.00	\$1,146.00	7.5%
Agawam	\$238.80	\$307.20	\$546.00	0.0%
Ayer	\$292.40	\$744.80	\$1,037.20	3.8%
Beverly	\$302.40	\$669.60	\$972.00	4.0%
Brockton	\$443.40	\$446.00	\$889.40	0.0%
Fairhaven	\$397.80	\$690.00	\$1,087.80	0.0%
Fall River	\$290.00	\$630.80	\$920.80	-4.9%
Fitchburg	\$369.40	\$839.40	\$1,208.80	46.8%
Gloucester	\$1,050.00	\$1,317.60	\$2,367.60	2.0%
Haverhill	\$310.80	\$434.40	\$745.20	0.0%
Holyoke	\$387.81	\$486.00	\$873.81	0.0%
Hudson	\$341.40	\$570.00	\$911.40	2.6%
Lawrence	\$372.00	\$402.00	\$774.00	0.0%
Lowell	\$248.04	\$324.96	\$573.00	9.1%
Medfield	\$260.16	\$551.92	\$812.08	3.2%
New Bedford	\$283.59	\$568.00	\$851.59	1.3%
Salem	\$291.60	\$622.80	\$914.40	2.3%
Springfield	\$284.80	\$400.80	\$685.60	6.7%
Tewksbury	\$812.62	\$700.80	\$1,513.42	-16.4%

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

**COMPARATIVE CHART OF RESIDENTIAL COMBINED  
WATER AND SEWER CHARGES 2011**



## Abington

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: Unknown  
 Fund: Special Revenue

Base charge \$32.00/bill  
 All units \$ 3.15/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: October 2009  
 Next adjustment scheduled: No answer  
 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	\$506.00
Sewer	\$640.00
Combined	\$1,146.00
% change from 2010	7.5%

**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: July 2009  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Annual service charge \$54.00  
 0 – 40 CF \$ 1.36/HCF  
 >40 CF \$ 1.90 "

Billing Frequency: Semi-Annually

**Residential Sewer Rates:**

Last adjusted: May 2008  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Annual minimum charge \$96.00  
 All units \$ 2.40/HCF  
 Based on 90% of water usage.

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

Water	\$238.80
Sewer	\$307.20
Combined	\$546.00
% change from 2010	0.0%

**Commercial Water Rates:**

Annual service charge \$54.00  
 All units \$ 1.90/HCF

Senior and/or Low Income Discounts: Yes

**Commercial Sewer Rates:**

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

**Ayer****Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum charge \$10.00  
 0 – 60 HCF \$ 2.27/HCF  
 >60 – 120 HCF \$ 2.82 "  
 >120 HCF \$ 3.33 "

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum charge \$10.00  
 0 – 60 HCF \$ 6.04/HCF  
 >60 – 120 HCF \$ 6.92 "  
 >120 HCF \$ 7.87 "

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	\$292.40
Sewer	\$744.80
Combined	\$1,037.20
% change from 2010	3.8%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: No answer

**Beverly****Residential Water Rates:**

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

All units \$2.52/HCF

**Residential Sewer Rates:**

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

All units \$5.58/HCF  
 Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$302.40
Sewer	\$669.60
Combined	\$972.00
% change from 2010	4.0%

**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: July 2007  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge (% meter) \$22.43/bill  
 0 – 12.5 HCF \$ 2.99/HCF "  
 >12 – 25 HCF \$ 3.81 "  
 >25 – 50 HCF \$ 5.17 "  
 >50 – 100 HCF \$ 5.62 "  
 >100 – 250 HCF \$ 5.87 "  
 >250 HCF \$ 6.11 "

**Residential Sewer Rates:**

Last adjusted: January 2010  
 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: Quarterly

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

Water	\$443.40
Sewer	\$446.00
Combined	\$889.40
% change from 2010	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Fairhaven

**Residential Water Rates:**

Last adjusted: July 2007  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum water bill \$72.90  
 Meter rental fee (¾" meter) \$ 9.00/year  
 All units \$ 3.24/HCF

**Residential Sewer Rates:**

Last adjusted: April 2006  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

All units \$5.75/HCF

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	\$397.80
Sewer	\$690.00
Combined	\$1,087.80
% change from 2010	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Fall River

**Residential Water Rates:**

Last adjusted: September 2011  
 Next adjustment scheduled: None  
 Fund: Enterprise

Service connection fee (¾" meter) \$6.00/quarter  
 All units \$2.25/HCF

**Residential Sewer Rates:**

Last adjusted: September 2011  
 Next adjustment scheduled: None  
 Fund: Enterprise

Stormwater Fee: \$35.00/quarter  
 All units \$ 4.09/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$290.00
Sewer	\$630.80
Combined	\$920.80
% change from 2010	-4.9%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## Fitchburg

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Base charge includes 5 HCF \$13.35/bill  
 >5 HCF \$ 3.16/HCF

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Base charge includes 9 HCF \$56.55/bill  
 >9HCF \$ 7.30/HCF

Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$369.40
Sewer	\$839.40
Combined	\$1,208.80
% change from 2010	46.8%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## Gloucester

**Residential Water Rates:**

Last adjusted: April 2010  
 Next adjustment scheduled: April 2011  
 Fund: Enterprise

All units \$8.75/kgal

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: April 2010  
 Next adjustment scheduled: April 2011  
 Fund: Enterprise

All units \$10.60/kgal  
 Based on 100% of water usage.

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

Water	\$1,050.00
Sewer	\$1,317.60
Combined	\$2,367.60
% change from 2010	2.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

## Haverhill

**Residential Water Rates:**

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

All units \$2.59/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

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

All units \$3.62/HCF  
 Based on 100% of water usage.

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

Water	\$310.80
Sewer	\$434.40
Combined	\$745.20
% change from 2010	0.0%

**Commercial Water 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

**Commercial Sewer Rates:**

Same as residential

## Holyoke

**Residential Water Rates:**

Last adjusted: July 2009  
 Next adjustment scheduled: Unknown  
 Fund: Enterprise

Minimum charge includes first 10,000 gallons \$43.09/bill  
 >10,000 gallons \$ 4.309/kgal

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: November 2008  
 Next adjustment scheduled: No answer  
 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 ≈ 90,000 gals.)	
--	--

Water	\$387.81
Sewer	\$486.00
Combined	\$873.81
% change from 2010	0.0%

**Commercial Water Rates:**

Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Two entities are provided with a commercial rate

## Hudson

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: General

Minimum charge \$10.60  
 >0 – 15 HCF \$ 2.65/kgal  
 >15 – 30 HCF \$ 3.04 "  
 >30 – 50 HCF \$ 3.10 "  
 >50 – 150 HCF \$ 3.15 "  
 >150 HCF \$ 3.20 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: General

Minimum charge includes 4 HCF \$19.00/bill  
 All units \$ 4.75/kgal  
 Based on 100% of water usage.

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

Water	\$341.40
Sewer	\$570.00
Combined	\$911.40
% change from 2010	2.6%

**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 answer  
 Fund: Enterprise

All units \$3.10/HCF

**Residential Sewer Rates:**

Last adjusted: July 2009  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

All units \$3.35/HCF  
 Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$372.00
Sewer	\$402.00
Combined	\$774.00
% change from 2010	0.0%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

## Lowell

**Residential Water Rates:**

Last adjusted: January 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

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

**Residential Sewer Rates:**

Last adjusted: No answer  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

0 – 50 HCF	\$2.708/HCF
>50 – 100 HCF	\$2.859 "
>100 – 200 HCF	\$2.904 "
>200 – 500 HCF	\$2.950 "
>500 HCF	\$2.995 "

Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$248.04
Sewer	\$324.96
Combined	\$573.00
% change from 2010	9.1%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: Yes for water

## Medfield

**Residential Water Rates:**

Last adjusted: June 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum bill includes 10,000 gals.

\$28.23/bill  
 >10 – 35 kgal \$ 2.49/kgal  
 >35 – 70 kgal \$ 3.96 "  
 >70 kgal \$ 5.62 "

**Residential Sewer Rates:**

Last adjusted: June 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum bill includes 10,000 gals.

>10 kgal \$ 8.25/kgal

Based on 75% of water usage.

Billing Frequency: Semi-Annually

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

Water	\$260.16
Sewer	\$551.92
Combined	\$812.08
% change from 2010	3.2%

**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: September 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge \$26.17/year  
 Meter rental fee (5/8" meter) \$11.42/year  
 All units \$ 2.05/HCF

**Residential Sewer Rates:**

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

Base charge \$70.00/year  
 All units \$ 4.15/HCF

Based on 100% of water usage.

Billing Frequency: Monthly

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

Water	\$283.59
Sewer	\$568.00
Combined	\$851.59
% change from 2010	1.3%

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Senior and/or Low Income Discounts: None

♦ Note: The annual cost for New Bedford was incorrect in the 2010 Retail Rate Survey. It has been updated in the 2011 survey tables and calculations.

## Salem

**Residential Water Rates:**

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

Minimum bill (5/8" meter) \$23.60  
 All units \$ 2.43/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

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

All units \$5.19/HCF  
 Based on 100% of water usage.

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

Water	\$291.60
Sewer	\$622.80
Combined	\$914.40
% change from 2010	2.3%

**Commercial Water Rates:**

All units \$3.29/HCF

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

0 – 250 HCF/month \$ 7.87/HCF  
 >250 HCF/month \$10.09/HCF

- The rates cited above exclude a 10% discount for all residential water (not sewer) bills paid within 15 days of the bill date.

## Springfield

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Chapter 40N

Service charge (5/8") \$2.50/month  
 All units \$2.29/HCF

Billing Frequency: Springfield

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Chapter 40N

All units \$3.34/HCF  
 Based on 100% of water usage.

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

Water	\$284.80
Sewer	\$400.80
Combined	\$685.60
% change from 2010	6.7%

**Commercial Water Rates:**

Industrial users only \$1.70/HCF

**Commercial Sewer Rates:**

Industrial users \$4.01/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: May 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

1 – 34 kgal/year	\$ 6.67/kgal
>34 – 70 kgal/year	\$ 9.44 "
>70 – 140 kgal/year	\$12.30 "
>140 kgal/year	\$14.31 "

**Residential Sewer Rates:**

Last adjusted: May 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

1 – 34 kgal/year	\$ 6.06/kgal
>34 – 70 kgal/year	\$ 7.81 "
>70 – 140 kgal/year	\$10.68 "
>140 kgal/year	\$12.49 "

Based on 100% of water usage.

Billing Frequency: Residential and Small Commercial Semi-Annually, Large Commercial Quarterly

Annual Cost	
AWWA Standard for Historical Comparison	
(120 HCF ≈ 90,000 gals.)	
Water	\$812.62
Sewer	\$700.80
Combined	\$1,513.42
% change from 2010	-16.4%

**Commercial Water Rates:**

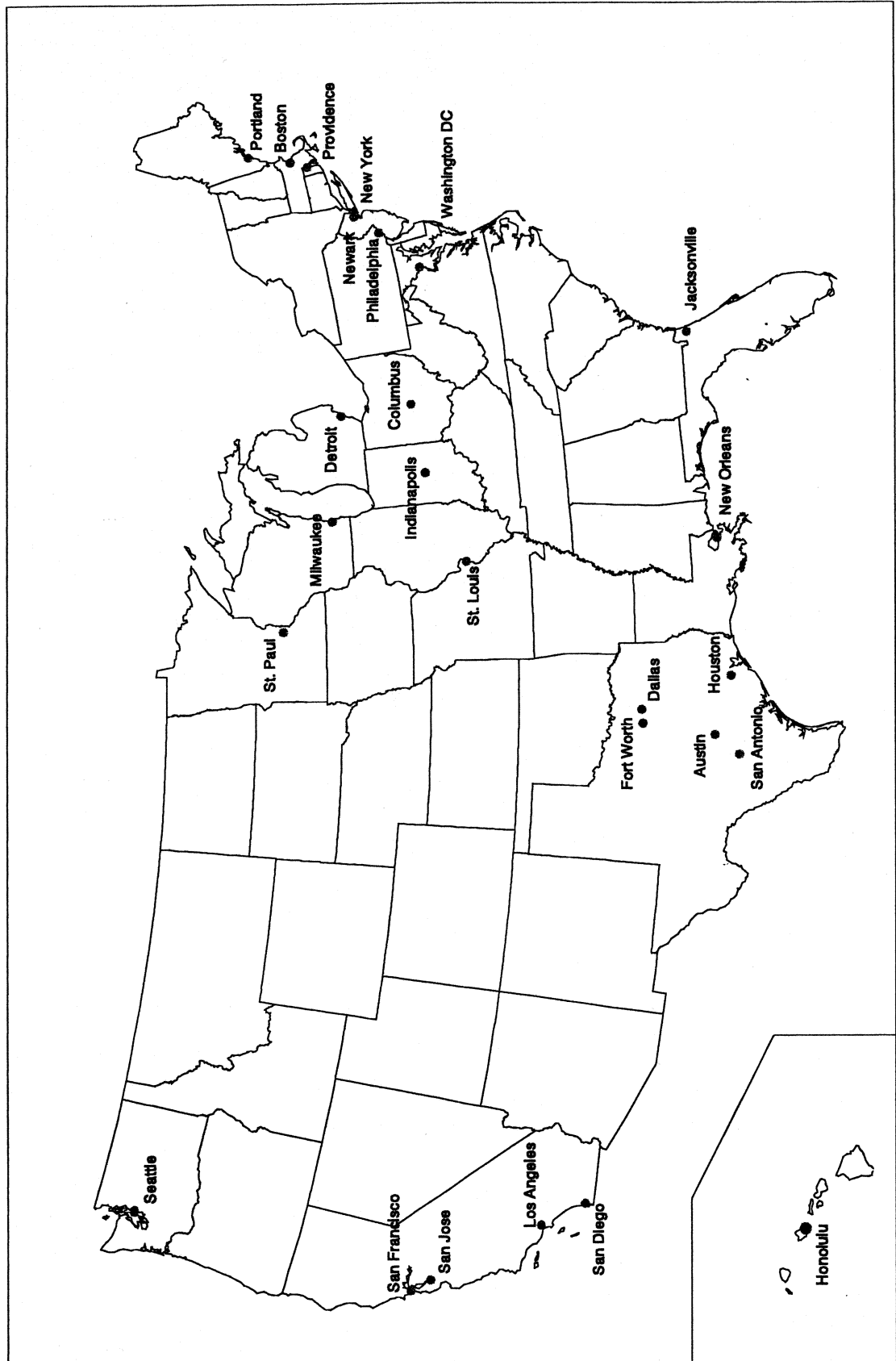
Same as residential

Senior and/or Low Income Discounts: None

**Commercial Sewer Rates:**

Same as residential

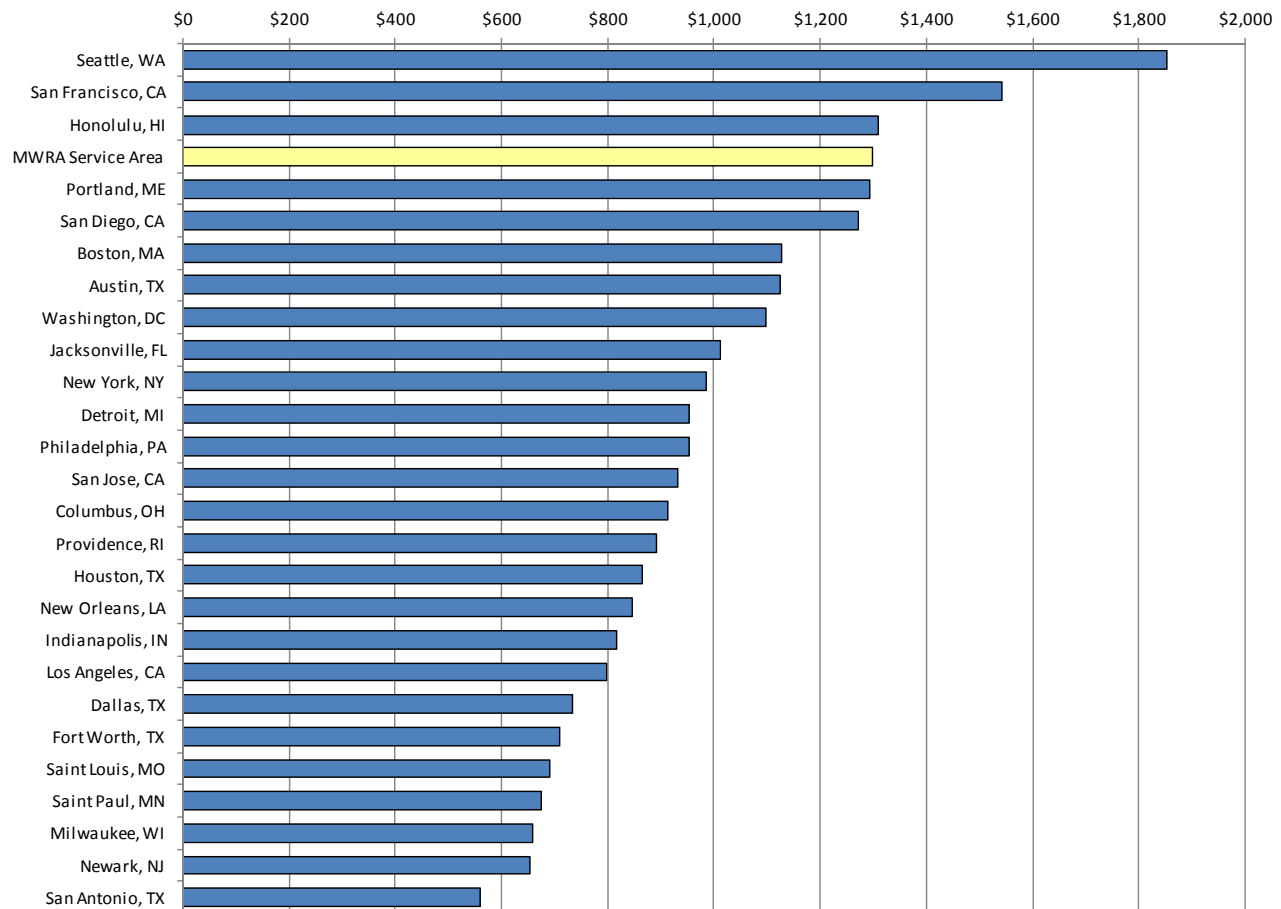
# COMPARATIVE RESIDENTIAL 2011 WATER AND SEWER CHARGES FOR U.S. CITIES



**COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES FOR  
MAJOR UNITED STATES CITIES  
2011**

	Water	Sewer	Combined	Change
Austin, TX	\$369.36	\$755.04	\$1,124.40	9.6%
Boston, MA	493.23	634.42	1,127.65	2.9%
Columbus, OH	405.88	506.76	912.64	10.9%
Dallas, TX	271.74	463.20	734.94	5.7%
Detroit, MI	274.80	679.56	954.36	9.7%
Fort Worth, TX	331.68	378.00	709.68	2.1%
Honolulu, HI	292.98	1,015.92	1,308.90	2.1%
Houston, TX	376.86	488.16	865.02	7.8%
Indianapolis, IN	441.84	374.11	815.95	18.4%
Jacksonville, FL	331.40	681.16	1,012.56	10.4%
Los Angeles, CA	426.35	372.78	799.13	-4.7%
Milwaukee, WI	282.72	375.64	658.36	11.0%
MWRA Service Area	492.20	796.31	1,288.51	3.5%
New Orleans, LA	397.04	448.26	845.30	1.8%
New York, NY	380.40	604.84	985.24	7.5%
Newark, NJ	281.40	371.64	653.04	1.9%
Philadelphia, PA	470.64	482.52	953.16	6.2%
Portland, ME	319.20	973.20	1,292.40	2.7%
Providence, RI	398.13	493.89	892.02	2.7%
Saint Louis, MO	307.76	382.08	689.84	0.0%
Saint Paul, MN	278.40	397.20	675.60	2.2%
San Antonio, TX	289.10	270.85	559.96	1.3%
San Diego, CA	676.38	594.13	1,270.51	-0.5%
San Francisco, CA	596.40	945.36	1,541.76	6.8%
San Jose, CA	525.05	405.96	931.01	4.0%
Seattle, WA	617.80	597.72	1,215.52	-27.4%
Washington, DC	444.20	654.64	1,098.84	7.5%
<b>AVERAGE</b>	<b>\$399.00</b>	<b>\$560.86</b>	<b>\$959.86</b>	<b>2.8%</b>

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



## Austin, Texas

**Residential Water Rates:**

Last adjusted: November 2011  
 Next adjustment scheduled: November 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$11.50/month  
 0 – 2 kgal \$ 1.17/kgal  
 >2 – 9 kgal \$ 3.08 "  
 >9 – 15 kgal \$ 7.92 "  
 >15 – 25 kgal \$10.95 "  
 >25 kgal \$12.19 "

**Residential Sewer Rates:**

Last adjusted: November 2011  
 Next adjustment scheduled: November 2012  
 Fund: Enterprise

Base charge \$ 9.25/month  
 0 – 2 kgal \$ 3.79/kgal  
 >2 kgal \$ 8.38 "  
 Based on winter average

Billing Frequency: Monthly

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

Water	\$369.36
Sewer	\$755.04
Combined	\$1,124.40
% change from 2010	9.6%

## Columbus, Ohio

**Residential Water Rates:**

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$28.27/quarter  
 0 – 5 HCF/month \$ 2.311/HCF  
 >5 HCF/month \$ 2.569 "

**Residential Sewer Rates:**

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$10.44/quarter  
 All units \$ 3.58/HCF  
 Clean Rivers Surcharge \$ 8.85/quarter  
 Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$405.88
Sewer	\$506.76
Combined	\$912.64
% change from 2010	10.9%

## Dallas, Texas

**Residential Water Rates:**

Last adjusted: October 2011  
 Next adjustment scheduled: October 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$4.20/bill  
 0 – 4 kgal \$1.68/kgal  
 >4 – 10 kgal \$3.35 "  
 >10 – 15 kgal \$4.63 "  
 >15 kgal \$6.25 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: October 2011  
 Next adjustment scheduled: October 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$4.10/bill  
 All units \$4.60/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.

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

Water	\$271.74
Sewer	\$463.20
Combined	\$734.94
% change from 2010	5.7%

## Detroit, Michigan

**Residential Water Rates:**

Last adjusted: August 2011  
 Next adjustment scheduled:  
 Fund: Enterprise

Meter charge (5/8" meter) \$4.81/bill  
 0 – 30 HCF \$1.809/HCF  
 >30 – 330 HCF \$1.650 "  
 >330 HCF \$1.485 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: August 2011  
 Next adjustment scheduled:  
 Fund: Enterprise

Base charge \$ 4.40/bill  
 Drainage charge (5/8" meter) \$15.28/bill  
 All units \$ 3.695/HCF  
 Based on 100% of water usage

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

Water	\$274.80
Sewer	\$679.56
Combined	\$954.36
% change from 2010	9.7%



## Fort Worth, Texas

**Residential Water Rates:**

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Service charge (5/8" meter) \$7.00/bill  
 0 – 8 HCF \$1.91/HCF  
 >8 – 20 HCF \$2.68 "  
 >20 – 30 HCF \$3.31 "  
 >30 HCF \$3.98 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Base charge \$5.10/bill  
 All units \$2.64/HCF  
 Based on an individual customer's average monthly usage during the preceding months of December, January, and February. In no event, shall the volume used to compute the monthly charge exceed 15 HCF.

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

Water	\$331.68
Sewer	\$378.00
Combined	\$709.68
% change from 2010	2.1%

## Honolulu, Hawaii

**Residential Water Rates:**

Last adjusted: July 2010  
 Next adjustment scheduled:  
 Fund: General

Base charge \$5.84/bill  
 0 – 13 kgal \$2.79/kgal  
 >13 – 30 kgal \$3.36 "  
 >30 kgal \$5.01 "

Billing Frequency: Bi-monthly

**Residential Sewer Rates:**

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

Base charge includes first 2 kgal \$71.13/month  
 >2 kgal \$ 3.00/kgal  
 Based on 82% of water usage after first 2 kgal/month

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

Water	\$292.98
Sewer	\$1,015.92
Combined	\$1,308.90
% change from 2010	2.1%

## Houston, Texas

**Residential Water Rates:**

Last adjusted:	April 2011
Next adjustment scheduled:	No answer
Fund:	Enterprise
Base charge (5/8" meter)	\$ 3.99/bill
<1 kgal	\$ 4.10/kgal
>1 – 2 kgal	\$ 9.34 "
>2 – 3 kgal	\$ 9.65 "
>3 – 4 kgal	\$18.26 "
>4 – 5 kgal	\$21.89 "
>5 – 6 kgal	\$25.51 "
>6 – 12 kgal	\$25.51 + \$3.93
	per add'l kgal
>12 kgal	\$49.09 + \$6.48
	per add'l kgal

**Residential Sewer Rates:**

Last adjusted:	April 2011
Next adjustment scheduled:	No answer
Fund:	Enterprise
Base charge	\$ 8.48/bill
<1 kgal	\$ 8.62/kgal
>1 – 2 kgal	\$ 8.90 "
>2 – 3 kgal	\$ 9.12 "
>3 – 4 kgal	\$20.92 "
>4 – 5 kgal	\$25.18 "
>5 – 6 kgal	\$31.38 "
>6 – 12 kgal	\$31.38 + \$6.20
	per add'l kgal

Based on 100% of water usage

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$376.86
Sewer	\$488.16
Combined	\$865.02
% change from 2010	7.8%

## Indianapolis, Indiana

**Residential Water Rates:**

Last adjusted:	June 2011
Next adjustment scheduled:	No answer
Fund:	Enterprise
Base charge (5/8" meter)	\$9.63/bill
0 – 15 HCF	\$2.719/kgal
>15 – 200 HCF	\$1.626 "
>200 – 1,000 HCF	\$2.391 "
>1,000 – 5,000 HCF	\$1.618 "
>5,000 HCF	\$1.233 "

**Residential Sewer Rates:**

Last adjusted:	February 2011
Next adjustment scheduled:	January 2012
Fund:	General
Base charge	\$ 6.97/bill
0 – 7,500 gallons	\$ 3.2274/kgal
>7,500 gallons	\$ 3.3928 "
Minimum bill	\$18.67

Based on 100% of water usage

Billing Frequency: Monthly

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

Water	\$441.84
Sewer	\$374.11
Combined	\$815.95
% change from 2010	18.4%

## Jacksonville, Florida

**Residential Water Rates:**

Last adjusted: October 2011  
 Next adjustment scheduled: October 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$12.60/bill  
 0 – 6 kgal \$ 0.93/kgal  
 >6 – 20 kgal \$ 2.28 "  
 >20 kgal \$ 5.35 "  
 Environmental (all kgal) \$ 0.37 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: October 2011  
 Next adjustment scheduled: October 2012  
 Fund: Enterprise

Base charge \$ 14.10/bill  
 0 – 6 kgal \$ 4.94/kgal  
 >6 – 20 kgal \$ 5.73 "  
 Environmental 1 – 20 kgal \$ 0.37/kgal  
 MAXIMUM BILL \$135.30  
 Based on 100% of water usage up to 20 kgal

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$331.40
Sewer	\$681.16
Combined	\$1,012.56
% change from 2010	10.4%

A 10% Public Service Tax, 3% Franchise Fee (water), 3% Franchise Fee (sewer), and Environmental Charge are included.

## Los Angeles, California

**Residential Water Rates:**

Last adjusted: No answer  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

November 1 to May 31  
 0 – 28 HCF (average rate) \$3.69/HCF  
 >28 HCF (average rate) \$5.90 "  
 June 1 to October 31  
 0 – 44 HCF (average rate) \$3.36/HCF  
 >44 HCF (average rate) \$5.83 "  
 Billing Frequency: Bi-monthly

**Residential Sewer Rates:**

Last adjusted: July 2008  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

All units \$3.27/HCF  
 Dry Winter Compensation factor is 95%.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$426.30
Sewer	\$372.78
Combined	\$799.13
% change from 2010	-4.7%

- 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 95%. Periods after July of each year have the calculated daily volume multiplied by the days in the period times \$3.27/HCF.

## Milwaukee, Wisconsin

**Residential Water Rates:**

Last adjusted: February 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Base charge (¾" meter) \$20.28/bill  
 0 – 100 HCF \$ 1.680/HCF  
 >100 – 5,000 HCF \$ 1.580 "  
 >5,000 – 20,000 HCF \$ 1.080 "  
 >20,000 HCF \$ 0.940 "

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: February 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Service charge \$15.91/bill  
 All units (volume charge) \$ 1.44/HCF  
 Local Sewerage Charge \$ 1.16 "  
 (formerly the Sewer Maintenance Fee)  
 Based on winter water usage

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

Water	\$282.72
Sewer	\$375.64
Combined	\$658.36
% change from 2010	11.0%

## New Orleans, Louisiana

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: N/A  
 Fund: Enterprise

Service charge (⅝" meter) \$4.05/bill  
 0 – 3 kgal \$2.69/kgal  
 >3 – 20 kgal \$4.60 "  
 >20 – 1,000 kgal \$3.62 "  
 >1,000 kgal \$3.04 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: July 2006  
 Next adjustment scheduled: N/A  
 Fund: Enterprise

Service charge (⅝" meter) \$11.60/bill  
 All units \$ 4.04/kgal  
 Based on 85% of water usage

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

Water	\$397.04
Sewer	\$448.26
Combined	\$845.30
% change from 2010	1.8%

## New York, New York

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum charge \$12.90  
 All units \$ 3.17/HCF

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Minimum charge \$20.51  
 All units \$ 5.04/HCF

Based on 159% of water rate.

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

Water	\$380.40
Sewer	\$604.84
Combined	\$985.24
% change from 2010	7.5%

## Newark, New Jersey

**Residential Water Rates:**

Last adjusted: February 2011  
 Next adjustment scheduled: No answer  
 Fund: General

Base charge includes 3 HCF \$7.56/bill  
 >3 – 333 HCF \$2.270/HCF  
 >333 – 1,666 HCF \$2.026 "  
 >1,666 HCF \$1.817 "

**Residential Sewer Rates:**

Last adjusted: February 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Base charge includes 6 HCF \$19.36/bill  
 >6 HCF \$ 2.904/HCF

Based on 100% of water usage

Billing Frequency: Monthly

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

Water	\$281.40
Sewer	\$371.64
Combined	\$653.04
% change from 2010	1.9%

## Philadelphia, Pennsylvania

**Residential Water Rates:**

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

Base charge (5/8" meter) \$6.37/bill  
 0 – 20 HCF \$3.285/HCF  
 >20 – 100 HCF \$2.662 "  
 >100 – 200 HCF \$2.443 "  
 >200 HCF \$1.860 "

**Residential Sewer Rates:**

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

Base charge (5/8" meter) \$ 4.41/bill  
 All units \$ 2.214/HCF  
 Based on 100% of water usage  
 Stormwater charge: \$13.66/month

Billing Frequency: Monthly

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

Water	\$470.64
Sewer	\$482.52
Combined	\$953.16
% change from 2010	6.2%

## Portland, Maine

**Residential Water Rates:**

Last adjusted: May 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum charge (5/8" meter) includes 1 HCF \$8.15/bill  
 >1 – 30 HCF \$2.05/HCF  
 >30 – 100 HCF \$1.63 "  
 >100 – 500 HCF \$1.43 "  
 >500 HCF \$0.82 "  
 Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: May 2011  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Minimum charge (5/8" meter) includes 1 HCF \$8.11/bill  
 >1 \$8.11/HCF  
 Based on 100% of water usage

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$319.20
Sewer	\$973.20
Combined	\$1,292.40
% change from 2010	2.7%

## Providence, Rhode Island

**Residential Water Rates:**

Last adjusted: April 2010  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Minimum charge (5/8" meter) \$18.34/bill  
 All units \$ 2.488/HCF  
 Combined State Surcharge \$ 0.21842 "

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Annual Fixed Fee (any size meter up to 6 dwelling units) \$168.21/dwelling  
 All units \$ 2.714/HCF  
 Sewer costs based on service from the Narragansett Bay Commission Field's Point Wastewater Treatment Facility.  
 Based on 100% of water usage.

Billing Frequency: Water: Quarterly Sewer: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
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Water	\$398.13
Sewer	\$493.89
Combined	\$892.02
% change from 2010	2.7%

- 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  
 Next adjustment scheduled: No answer  
 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 "  
 Billing Frequency: Water: Quarterly

**Residential Sewer Rates:**

Last adjusted: July 2010  
 Next adjustment scheduled: July 2011  
 Fund: Special Revenue

Base charge \$11.40/bill  
 Stormwater charge per bill \$ 5.83/mo avg.  
 All units \$ 2.02/HCF  
 Based on 100% of water usage  
 Sewer: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
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Water	\$307.76
Sewer	\$382.08
Combined	\$689.84
% change from 2010	0.0%

- 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 rate is \$0.24 per 100 ft<sup>2</sup> of impervious surface. The current year's average is \$5.83 based on last year's information.

## Saint Paul, Minnesota

**Residential Water Rates:**

Last adjusted: No answer  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

Winter – December to May:  
 All units \$2.27/HCF

Summer – June to November:  
 All units \$2.37/HCF

Annual testing charge \$6.36/household

Billing Frequency: Quarterly

**Residential Sewer Rates:**

Last adjusted: No answer  
 Next adjustment scheduled: No answer  
 Fund: Enterprise

0 – 1,000 HCF \$3.31/HCF  
 >1,000 – 5,000 HCF \$3.26 "  
 >5,000 HCF \$3.19 "  
 Minimum charge of \$7.20 for ¾" and smaller  
 meters.

Based on 100% of water usage

<b>Annual Cost</b> <b>AWWA Standard for Historical Comparison</b> (120 HCF ≈ 90,000 gals.)	
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Water	\$278.40
Sewer	\$397.20
Combined	\$675.60
% change from 2010	2.2%



## San Antonio, Texas

**Residential Water Rates:**

Last adjusted: November 2010  
 Next adjustment scheduled: No answer  
 Fund: General

Base charge (5/8" meter) \$6.91/bill  
 Water Supply Fee  
 0 – 5.985 kgal \$1.023/kgal  
 >5.985 – 12.717 kgal \$1.480 "  
 >12.717 – 17.205 kgal \$2.087 "  
 >17.205 kgal \$3.653 "

Winter – November to June:  
 0 – 5.985 kgal \$0.917/kgal  
 >5.985 – 12.717 kgal \$1.327 "  
 >12.717 – 17.205 kgal \$1.871 "  
 >17.205 kgal \$3.277 "

Summer – July to October  
 0 – 5.985 kgal \$0.917/kgal  
 >5.985 – 12.717 kgal \$1.443 "  
 >12.717 – 17.205 kgal \$2.146 "  
 >17.205 kgal \$4.446 "

EAA Fee \$0.1407/kgal  
 Texas Commission on  
 Environmental Quality Fee: \$0.19/month  
 Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: November 2010  
 Next adjustment scheduled: No answer  
 Fund: General

Min. charge includes 1.496 kgal \$8.68  
 >1.496 kgal \$2.302/kgal  
 Computed on the basis of average water usage for  
 90 days during the period beginning November 15  
 and ending on or about March 15 of each year.

Texas Commission on  
 Environmental Quality Fee: \$0.07/month

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

Water	\$289.10
Sewer	\$270.85
Combined	\$559.96
% change from 2010	1.3%

- San Antonio has two water systems; the water rates cited are provided by the San Antonio Water System.
- Not included in these rates is a monthly Stormwater Fee billed by SAWS. Residential Tier 1 Rates = \$3.22/mo.

## San Diego, California

**Residential Water Rates:**

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

Base charge (5/8" meter) \$38.66/bill  
 0 – 14 HCF/month \$ 3.612/HCF  
 >14 – 28 HCF/month \$ 3.917 "  
 >28 HCF/month \$ 4.398 "

Billing Frequency: Bi-monthly

**Residential Sewer Rates:**

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

Base charge \$ 30.66/bill  
 All units \$ 3.598/HCF

Sewer cap charge per bill  
 (includes base fee) \$174.58  
 Based on 100% of water usage

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

Water	\$676.38
Sewer	\$594.13
Combined	\$1,270.51
% change from 2010	-0.5%

In previous years, the annual cost included a \$3.25/month credit for which 97% of San Diego's single-family residential customers were eligible, as well as a \$0.95/month storm drain charge. At San Diego's request, these have been removed from this year's calculations; additionally, the 2010 calculation has been updated to reflect an accurate percentage change from the previous year.

## San Francisco, California

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$7.00  
 0 – 3 HCF/month \$3.50/HCF  
 >3 HCF/month \$4.60 "

Billing Frequency: Bi-monthly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

0 – 3 HCF/dwelling unit/mo \$7.16/HCF  
 >3 HCF \$9.55 "  
 Based on 90% of water usage

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

Water	\$596.40
Sewer	\$945.36
Combined	\$1,541.76
% change from 2010	6.8%

- San Francisco calculates its bills on a monthly basis, but bills its customers every two months. Large non-residential accounts and any customers requesting are billed monthly.
- San Francisco reports that single-family residential customers have an average use of 84 HCF/year. At this level, annual costs per household would be \$402.24 (water) and \$635.94 (sewer).
- San Francisco reports that multiple family dwelling units make up over 60% of its housing stock and have an average use of 60 HCF/dwelling unit per month of water use and a return factor of 95%. At this level, annual costs per household would be \$310.80 (water) and \$429.66 (sewer).

## San Jose, California

**Residential Water Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Base charge (5/8" meter) \$16.9./bill  
 0 – 13 HCF \$ 2.5157/HCF  
 >13 HCF \$ 2.7663 "  
 Billing Frequency: Water: Bi-monthly

**Residential Sewer Rates:**

Last adjusted: July 2011  
 Next adjustment scheduled: July 2012  
 Fund: Enterprise

Flat rate \$405.96/year  
 Sewer: Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$525.05
Sewer	\$405.96
Combined	\$931.01
% change from 2010	4.0%

- 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 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

Base charge (3/4" meter) \$13.00/month  
 Winter – September 16 to May 15:  
 All units \$ 3.62/HCF  
 Summer – May 16 To September 15:  
 0 – 5 HCF \$ 3.98/HCF  
 5 – 18 HCF \$ 4.63 "  
 >18 HCF \$11.80 "

Billing Frequency: Bi-monthly

**Residential Sewer Rates:**

Last adjusted: January 2011  
 Next adjustment scheduled: January 2012  
 Fund: Enterprise

All units \$10.28/HCF  
 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

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$617.80
Sewer	\$597.72
Combined	\$1,215.52
% change from 2010	10.5%

- 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 \$380.42 (water) and \$530.45 (sewer).

## Washington, District of Columbia

**Residential Water Rates:**

Last adjusted: October 2011  
 Next adjustment scheduled: October 2012  
 Fund: Enterprise

Meter fee (5/8" meter) \$1.737/month  
 All units \$3.240/HCF  
 Right-of-Way Fee \$0.0675 "  
 PILOT Fee \$0.2205 "

Billing Frequency: Monthly

**Residential Sewer Rates:**

Last adjusted: October 2011  
 Next adjustment scheduled: October 2012  
 Fund: Enterprise

Meter fee (5/8" meter) \$2.123/month  
 All units \$3.96/HCF  
 Right of Way Fee \$0.0825 "  
 PILOT Fee \$0.2695 "  
 Impervious Area Charge \$6.64/ERU/month  
 DC Govt. Stormwater Fee \$2.67/ERU/month

Annual Cost AWWA Standard for Historical Comparison (120 HCF $\approx$ 90,000 gals.)	
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Water	\$444.20
Sewer	\$654.64
Combined	\$1,098.84
% change from 2010	7.5%

- Right-of-Way, PILOT, and Metering fee have been prorated based on 45% water and 55% sewer.
- ERU = "Equivalent Residential Unit"

# **APPENDIX A**

## **2010 WATER & SEWER RETAIL RATE INFORMATION**

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NOTE: The Advisory Board endeavors to portray the most accurate information possible at time of print. As a result, some 2010 rates and calculations may differ from the information published in the 2010 Retail Rate Survey to reflect more accurate information obtained since that time.

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## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA 2010

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) *	\$517.10	\$505.20	\$1,022.30	15.4%
Ashland (S)	\$408.40	\$1,226.40	\$1,634.80	6.3%
Bedford (S/partial W)	\$503.00	\$953.00	\$1,456.00	6.4%
Belmont (W/S)	\$688.56	\$1,203.80	\$1,892.36	6.7%
Boston (W/S)	\$479.30	\$616.53	\$1,095.83	4.0%
Braintree (S)	\$259.00	\$734.40	\$993.40	0.0%
Brookline (W/S)	\$594.00	\$822.00	\$1,416.00	6.3%
Burlington (S)	\$181.50	\$371.50	\$553.00	-23.9%
Cambridge (S/partial W)	\$380.00	\$980.00	\$1,360.00	6.1%
Canton (S/partial W)	\$621.40	\$736.40	\$1,357.80	7.4%
Chelsea (W/S)	\$469.20	\$884.40	\$1,353.60	10.5%
Chicopee (W)	\$324.00	\$597.25	\$921.25	7.5%
Clinton (W/S)	\$343.60	\$257.70	\$601.30	0.0%
Dedham (S/partial W)	\$527.44	\$937.28	\$1,464.72	0.0%
Everett (W/S)	\$181.20	\$493.20	\$674.40	0.0%
Framingham (W/S)	\$529.08	\$567.24	\$1,096.32	8.8%
Hingham (S)	\$918.98	\$1,020.00	\$1,938.98	0.0%
Holbrook (S)	\$459.60	\$774.00	\$1,233.60	0.0%
Leominster (partial W)	\$378.60	\$385.40	\$764.00	12.8%
Lexington (W/S)	\$422.80	\$838.40	\$1,261.20	1.7%
Lynn (partial W)	\$400.80	\$736.92	\$1,137.72	3.8%
Malden (W/S)	\$452.16	\$549.36	\$1,001.52	1.6%
Marblehead (W)	\$521.00	\$752.00	\$1,273.00	5.2%
Marlborough (partial W)	\$609.60	\$409.20	\$1,018.80	0.0%
Medford (W/S)	\$637.20	\$912.00	\$1,549.20	1.3%
Melrose (W/S)	\$600.00	\$987.12	\$1,587.12	1.9%
Milton (W/S)	\$603.60	\$1,113.36	\$1,716.96	5.1%
Nahant (W) *	\$684.00	\$949.20	\$1,633.20	-1.4%
Natick (S)	\$316.00	\$951.20	\$1,267.20	7.9%
Needham (S/partial W)	\$483.00	\$997.80	\$1,480.80	0.0%
Newton (W/S)	\$658.00	\$932.00	\$1,590.00	11.3%
Northborough (partial W)	\$547.08	\$632.60	\$1,179.68	15.5%
Norwood (W/S)	\$504.72	\$741.10	\$1,245.82	4.7%
Peabody (partial W)	\$306.00	\$409.80	\$715.80	0.0%
Quincy (W/S)	\$565.20	\$928.20	\$1,493.40	3.7%
Randolph (S)	\$423.00	\$740.20	\$1,163.20	5.7%
Reading (W/S)	\$963.60	\$1,012.80	\$1,976.40	4.6%
Revere (W/S)	\$386.40	\$1,206.00	\$1,592.40	14.5%
Saugus (W)	\$472.40	\$344.00	\$816.40	5.3%
Somerville (W/S)	\$564.00	\$815.58	\$1,379.58	4.3%
Stoneham (W/S)	\$516.00	\$1,032.00	\$1,548.00	2.4%
Stoughton (S/partial W)	\$467.88	\$1,064.40	\$1,532.28	14.5%
Swampscott (W)	\$812.00	\$633.80	\$1,445.80	4.8%
Wakefield (S/partial W)	\$527.04	\$1,019.52	\$1,546.56	2.4%
Walpole (S)	\$562.20	\$759.26	\$1,321.46	5.3%
Waltham (W/S)	\$356.64	\$664.32	\$1,020.96	2.2%
Watertown (W/S)	\$455.36	\$871.20	\$1,326.56	4.5%
Wellesley (S/partial W)	\$434.28	\$872.40	\$1,306.68	5.1%
Westwood (S/partial W)	\$527.44	\$748.00	\$1,275.44	0.0%
Weymouth (S)	\$608.88	\$877.40	\$1,486.28	4.8%
Wilbraham (W)	\$378.00	\$492.00	\$870.00	3.6%
Wilmington (S/partial W)	\$449.60	\$598.80	\$1,048.40	2.2%
Winchester (S/partial W) *	\$275.60	\$313.20	\$588.80	0.0%
Winthrop (W/S)	\$598.80	\$998.40	\$1,597.20	0.0%
Woburn (S/partial W)	\$205.00	\$328.00	\$533.00	-5.3%
Worcester (partial W)	\$378.00	\$485.76	\$863.76	7.8%
<b>AVERAGE</b>	<b>\$489.95</b>	<b>\$763.98</b>	<b>\$1,253.93</b>	<b>4.2%</b>

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 2010		
	Water	Sewer
Arlington (W/S)*	\$ 517.10	\$505.20
Ashland (S)	-	1226.40
Bedford (S/partial W)	503.00	953.00
Belmont (W/S)	688.56	1203.80
Boston (W/S)	479.30	616.53
Braintree (S)	-	734.40
Brookline (W/S)	594.00	822.00
Burlington (S)	-	371.50
Cambridge (S/partial W)	380.00	980.00
Canton (S/partial W)	621.40	736.40
Chelsea (W/S)	469.20	884.40
Chicopee (W)	324.00	-
Clinton (W/S)	343.60	257.70
Dedham (S/partial W)	527.44	937.28
Everett (W/S)	181.20	493.20
Framingham (W/S)	529.08	567.24
Hingham (S)	-	1020.00
Holbrook (S)	-	774.00
Leominster (partial W)	378.60	-
Lexington (W/S)	422.80	838.40
Lynn (partial W)	400.80	-
Lynnfield (W)	337.60	-
Malden (W/S)	452.16	549.36
Marblehead (W)	521.00	-
Marlborough (partial W)	609.60	-
Medford (W/S)	637.20	912.00
Melrose (W/S)	600.00	987.12
Milton (W/S)	603.60	1113.36
Nahant (W)*	684.00	-
Natick (S)	-	951.20
Needham (S/partial W)	483.00	997.80
Newton (W/S)	658.00	932.00
Northborough (partial W)	547.08	-
Norwood (W/S)	504.72	741.10
Peabody (partial W)	306.00	-
Quincy (W/S)	565.20	928.20
Randolph (S)	-	740.20
Reading (W/S)	963.60	1012.80
Revere (W/S)	386.40	1206.00
Saugus (W)	472.40	-
Somerville (W/S)	564.00	815.58
South Hadley (W)	400.40	-
Southborough (W)	410.32	-
Stoneham (W/S)	516.00	1032.00
Stoughton (S/partial W)	467.88	1064.40
Swampscott (W)	812.00	-
Wakefield (S/partial W)	527.04	1019.52
Walpole (S)	-	759.26
Waltham (W/S)	356.64	664.32
Watertown (W/S)	455.36	871.20
Wellesley (S/partial W)	434.28	872.40
Weston (W)	262.00	-
Westwood (S/partial W)	527.44	748.00
Weymouth (S)	-	877.40
Wilbraham (W)	378.00	-
Wilmington (S/partial W)	-	598.80
Winchester (S/partial W)*	275.60	313.20
Winthrop (W/S)	598.80	998.40
Woburn (S/partial W)	205.00	328.00
Worcester (partial W)	378.00	-
AVERAGE	\$485.21	\$817.16
Percent change	8.3%	112%

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 2010

	Water	Sewer	Combined
Abington	\$426.00	\$640.00	\$1,066.00
Agawam	238.80	307.20	546.00
Ayer	282.80	716.00	998.80
Beverly	294.00	640.80	934.80
Brockton	443.40	446.00	889.40
Fairhaven	397.80	690.00	1,087.80
Fall River	288.00	680.00	968.00
Fitchburg	346.00	477.20	823.20
Gloucester	1,050.00	1,272.00	2,322.00
Haverhill	310.80	434.40	745.20
Holyoke	387.81	486.00	873.81
Hudson	353.40	535.20	888.60
Lawrence	372.00	402.00	774.00
Lowell	200.40	324.96	525.36
Medfield	251.56	535.14	786.70
New Bedford	272.62	568.00	840.62
Salem	283.20	610.80	894.00
Springfield	271.60	370.80	642.40
Tewksbury	873.70	936.20	1,809.90

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

### COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES FOR MAJOR UNITED STATES CITIES 2010

	Water	Sewer	Combined
Austin, TX	\$294.12	\$731.94	\$1,026.06
Boston, MA	479.30	616.53	1,095.83
Columbus, OH	344.64	478.32	822.96
Dallas, TX	257.34	438.00	695.34
Detroit, MI	251.52	618.12	869.64
Fort Worth, TX	324.24	370.80	695.04
Honolulu, HI	292.98	988.55	1,281.53
Houston, TX	349.50	452.58	802.08
Indianapolis, IN	351.24	337.75	688.99
Jacksonville, FL	300.81	616.52	917.33
Los Angeles, CA	445.80	392.40	838.20
Milwaukee, WI	225.48	367.60	593.08
MWRA Service Area	480.79	763.98	1,244.77
New Orleans, LA	381.92	448.26	830.18
New York, NY	354.00	562.80	916.80
Newark, NJ	276.02	364.58	640.61
Philadelphia, PA	429.48	467.88	897.36
Portland, ME	314.28	944.40	1,258.68
Providence, RI	390.57	478.03	868.60
Saint Louis, MO	307.76	382.08	689.84
Saint Paul, MN	264.00	397.20	661.20
San Antonio, TX	293.01	270.61	563.62
San Diego, CA	645.89	630.97	1,276.85
San Francisco, CA	531.72	911.88	1,443.60
San Jose, CA	500.50	394.32	894.82
Seattle, WA	597.72	1,077.60	1,675.32
Washington, DC	426.86	595.30	1,022.16
<b>AVERAGE</b>	<b>\$374.50</b>	<b>\$559.22</b>	<b>\$933.32</b>

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



# **APPENDIX B**

## **SECOND METER INFORMATION AND GLOSSARY**

**SECOND METER INFORMATION:**

	<b>Number</b>	<b>Percent</b>
MWRA or partially supplied communities utilizing second meters to adjust water bills	YES: 33 NO: 27	YES: 55.0% NO: 45.0%

**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 - 7 water, 7 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** - 4 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** - 48 water, 46 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

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# **APPENDIX C**

## **2011 Residential Cost Based on Community Water Use Data**

## Combined Annual Water and Sewer Charges for Communities Receiving Services from the MWRA Based on Actual Household Usage 2011

Charges include MWRA, community, and alternatively supplied services.  
Rates based on actual consumption provided to DEP by the communities and calculated by MWRA staff.

	Actual Household Usage	Water	Sewer	Combined
Belmont	94.7	\$574.37	\$1,014.62	\$1,588.98
Hingham	86.7	\$743.74	\$775.97	\$1,519.71
Nahant	98.4	\$564.82	\$878.71	\$1,443.53
Milton	91.7	\$459.59	\$864.58	\$1,324.16
Swampscott	99.3	\$679.52	\$610.35	\$1,289.87
Needham	102.3	\$413.63	\$842.52	\$1,256.15
Wellesley	102.9	\$385.66	\$809.30	\$1,194.96
Ashland	72.0	\$219.36	\$871.36	\$1,090.72
Lexington	99.3	\$339.92	\$744.96	\$1,084.89
Reading	64.1	\$530.11	\$549.34	\$1,079.44
Canton	87.6	\$442.43	\$579.73	\$1,022.16
Wakefield	74.7	\$336.15	\$664.23	\$1,000.38
Medford	76.8	\$407.81	\$583.68	\$991.49
Dedham	73.3	\$397.71	\$592.26	\$989.98
Stoneham	75.7	\$325.51	\$651.02	\$976.53
Marblehead	88.6	\$398.54	\$565.17	\$963.71
Newton	71.5	\$387.53	\$569.14	\$956.67
Walpole	85.0	\$363.46	\$539.78	\$903.24
Holbrook	77.6	\$401.19	\$474.32	\$875.51
Chelsea	71.6	\$293.53	\$574.88	\$868.41
Quincy	68.7	\$323.58	\$531.39	\$854.97
Bedford	81.5	\$274.20	\$579.55	\$853.75
Brookline	71.5	\$350.80	\$500.33	\$851.13
Westwood	73.3	\$397.70	\$448.49	\$846.19
Melrose	60.0	\$315.00	\$504.90	\$819.90
Winthrop	60.8	\$303.39	\$505.86	\$809.25
Randolph	79.0	\$306.75	\$489.24	\$795.99
Stoughton	60.3	\$255.37	\$534.86	\$790.23
Weymouth	63.0	\$323.82	\$461.72	\$785.54
Framingham	80.3	\$356.13	\$425.46	\$781.59
Revere	55.1	\$177.42	\$553.76	\$731.18
Watertown	64.9	\$256.45	\$471.17	\$727.62
Waltham	80.9	\$258.88	\$460.32	\$719.20
Braintree	84.6	\$192.09	\$523.77	\$715.86
Wilmington	81.9	\$283.87	\$408.68	\$692.55
Marlborough	66.7	\$338.84	\$349.51	\$688.34
Lynn	70.6	\$235.10	\$432.07	\$667.17
Cambridge	59.2	\$183.01	\$474.14	\$657.15
Arlington	67.7	\$329.87	\$306.00	\$635.88
Somerville	58.6	\$243.44	\$388.55	\$631.99
Natick	79.1	\$174.28	\$455.34	\$629.62
Chicopee	71.6	\$193.32	\$415.71	\$609.03
Worcester	79.0	\$256.75	\$341.28	\$598.03
Northborough	62.3	\$266.39	\$324.40	\$590.79
Wilbraham	78.3	\$262.31	\$321.03	\$583.34
Norwood	62.6	\$234.90	\$326.73	\$561.63
Weston	174.9	\$558.99	\$0.00	\$558.99
Woburn	115.4	\$205.00	\$328.00	\$533.00
Saugus	77.9	\$303.54	\$217.70	\$521.24
Malden	69.9	\$254.29	\$256.32	\$510.61
Boston	56.7	\$220.70	\$285.74	\$506.44
Everett	83.4	\$125.93	\$342.77	\$468.71
Winchester	102.6	\$222.70	\$244.12	\$466.83
Lynnfield	122.4	\$450.81	\$0.00	\$450.81
Leominster	66.4	\$220.48	\$221.92	\$442.40
Peabody	71.1	\$173.48	\$234.74	\$408.22
Southborough	113.3	\$383.52	\$0.00	\$383.52
South Hadley	99.2	\$334.46	\$0.00	\$334.46
Clinton	68.0	\$188.40	\$141.30	\$329.70
Burlington	69.8	\$98.42	\$141.16	\$239.58

# **APPENDIX D**

## **FINAL MWRA FISCAL YEAR 2012 BILLABLE WATER AND SEWER CHARGES**

# MASSACHUSETTS WATER RESOURCES AUTHORITY

## FINAL FY12 BILLABLE WATER AND SEWER CHARGES

MWRA Customer	Final FY11 Water Assessment	Final FY12 Water Assessment	Percent Change from FY11	Final FY11 Sewer Assessment	Final FY12 Sewer Assessment	Percent Change from FY11	Final FY11 Combined Assessment	Final FY12 Combined Assessment	Percent Change from FY11
ARLINGTON	3,993,340	4,111,254	3.0%	6,763,055	7,190,694	6.3%	10,756,395	11,301,948	5.1%
ASHLAND				1,942,553	1,996,318	2.8%	1,942,553	1,996,318	2.8%
BEDFORD				2,872,853	2,951,458	2.7%	2,872,853	2,951,458	2.7%
BELMONT	2,183,280	2,253,543	3.2%	4,234,838	4,490,781	6.0%	6,418,118	6,744,324	5.1%
BOSTON (BWSC)	67,381,413	66,577,763	-1.2%	109,888,745	115,180,467	4.8%	177,270,158	181,758,230	2.5%
BRAINTREE				7,090,129	7,226,112	1.9%	7,090,129	7,226,112	1.9%
BROOKLINE	5,310,862	5,175,607	-2.5%	11,279,012	12,047,440	6.8%	16,589,874	17,223,047	3.8%
BURLINGTON				4,447,740	4,736,577	6.5%	4,447,740	4,736,577	6.5%
CAMBRIDGE				21,622,817	21,495,855	-0.6%	21,622,817	21,495,855	-0.6%
CANTON	2,245,811	2,215,262	-1.4%	3,240,704	3,250,840	0.3%	5,486,515	5,466,102	-0.4%
CHELSEA	3,118,910	3,056,409	-2.0%	6,157,340	6,315,106	2.6%	9,276,250	9,371,515	1.0%
DEDHAM				4,715,220	4,809,110	2.0%	4,715,220	4,809,110	2.0%
DEDHAM-WESTWOOD WATER DISTRICT	781	47,238	5948.4%				781	47,238	5948.4%
EVERETT	4,152,168	4,157,781	0.1%	6,614,319	6,907,659	4.4%	10,766,487	11,065,440	2.8%
FRAMINGHAM	6,448,218	6,859,304	6.4%	9,983,704	10,365,277	3.8%	16,431,922	17,224,581	4.8%
HINGHAM SEWER DISTRICT				1,434,012	1,501,652	4.7%	1,434,012	1,501,652	4.7%
HOLBROOK				1,379,633	1,425,395	3.3%	1,379,633	1,425,395	3.3%
LEXINGTON	4,745,093	5,049,999	6.4%	6,405,931	6,802,875	6.2%	11,151,024	11,852,874	6.3%
LYNN (LWSC)	169,958	202,576	19.2%				169,958	202,576	19.2%
LYNNFIELD WATER DISTRICT	362,005	424,008	17.1%				362,005	424,008	17.1%
MALDEN	5,494,013	5,428,405	-1.2%	10,588,739	10,847,823	2.4%	16,082,752	16,276,228	1.2%
MARBLEHEAD	1,805,608	1,829,892	1.3%				1,805,608	1,829,892	1.3%
MARLBOROUGH	2,390,943	2,966,308	24.1%				2,390,943	2,966,308	24.1%
MEDFORD	5,061,181	5,063,263	0.0%	10,350,919	10,794,857	4.3%	15,412,100	15,858,120	2.9%
MELROSE	2,093,320	2,278,579	8.9%	5,245,603	5,382,210	2.6%	7,338,923	7,660,789	4.4%
MILTON	2,290,290	2,367,833	3.4%	4,536,045	4,797,042	5.8%	6,826,335	7,164,875	5.0%
NAHANT	303,713	323,512	6.5%				303,713	323,512	6.5%
NATICK				4,346,280	4,460,551	2.6%	4,346,280	4,460,551	2.6%
NEEDHAM	265,017	610,028	130.2%	5,043,945	5,291,080	4.9%	5,308,962	5,901,108	11.2%
NEWTON	8,710,520	8,939,785	2.6%	18,034,955	19,546,086	8.4%	26,745,475	28,485,871	6.5%
NORTHBOROUGH	793,981	747,515	-5.9%				793,981	747,515	-5.9%
NORWOOD	2,875,398	3,181,474	10.6%	5,561,031	5,770,472	3.8%	8,436,429	8,951,946	6.1%
PEABODY	392,317	666,251	69.8%				392,317	666,251	69.8%
QUINCY	9,387,744	9,306,539	-0.9%	17,150,548	17,658,232	3.0%	26,538,292	26,964,771	1.6%
RANDOLPH				4,910,670	5,177,242	5.4%	4,910,670	5,177,242	5.4%
READING	1,726,878	1,772,389	2.6%	3,922,082	4,128,058	5.3%	5,648,960	5,900,447	4.5%
REVERE	4,086,484	4,159,759	1.8%	9,553,669	9,203,347	-3.7%	13,640,153	13,363,106	-2.0%
SAUGUS	2,972,346	2,896,537	-2.6%				2,972,346	2,896,537	-2.6%
SOMERVILLE	5,958,943	5,834,796	-2.1%	12,822,076	13,719,348	7.0%	18,781,019	19,554,144	4.1%
SOUTHBOROUGH	625,916	727,775	16.3%				625,916	727,775	16.3%
STONEHAM	2,710,209	2,877,398	6.2%	4,036,494	4,253,379	5.4%	6,746,703	7,130,777	5.7%
STOUGHTON	560,611	628,192	12.1%	4,209,243	4,438,406	5.4%	4,769,854	5,066,598	6.2%
SWAMPSCOTT	1,462,442	1,474,802	0.8%				1,462,442	1,474,802	0.8%
WAKEFIELD	1,519,711	1,477,779	-2.8%	5,033,655	5,414,681	7.6%	6,553,366	6,892,460	5.2%
WALPOLE				3,116,054	3,252,627	4.4%	3,116,054	3,252,627	4.4%
WALTHAM	7,639,702	7,698,671	0.8%	11,906,428	12,347,461	3.7%	19,546,130	20,046,132	2.6%
WATERTOWN	2,683,079	2,658,770	-0.9%	5,271,596	5,542,951	5.1%	7,954,675	8,201,721	3.1%
WELLESLEY	1,039,510	1,043,230	0.4%	4,801,042	4,999,950	4.1%	5,840,552	6,043,180	3.5%
WESTON	1,367,778	1,751,901	28.1%				1,367,778	1,751,901	28.1%
WESTWOOD				2,158,037	2,268,632	5.1%	2,158,037	2,268,632	5.1%
WEYMOUTH				9,316,303	9,865,795	5.9%	9,316,303	9,865,795	5.9%
WILMINGTON	100,782	493,375	389.5%	1,963,446	2,187,544	11.4%	2,064,228	2,680,919	29.9%
WINCHESTER	836,681	1,014,617	21.3%	3,465,522	3,605,752	4.0%	4,302,203	4,620,369	7.4%
WINTHROP	1,239,532	1,240,299	0.1%	2,871,107	3,125,822	8.9%	4,110,639	4,366,121	6.2%
WOBURN	1,713,327	2,295,113	34.0%	9,292,091	9,041,505	-2.7%	11,005,418	11,336,618	3.0%
<b>TOTAL</b>	<b>\$180,219,815</b>	<b>\$183,885,531</b>	<b>2.0%</b>	<b>\$389,580,185</b>	<b>\$405,814,469</b>	<b>4.2%</b>	<b>\$569,800,000</b>	<b>\$589,700,000</b>	<b>3.49%</b>

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



# **APPENDIX E**

## **ADDITIONAL 2011 DATA FOR MWRA COMMUNITIES**

**AVERAGE AGE OF COMMUNITY'S WATER METERS**

No answer	1
1-5	11
6-10	19
11-15	17
15+	12
Invalid Data	0
Not applicable	0

**USE OF MANUAL VERSUS AUTOMATED METER READING**

No answer	1
Manual	8
Automated	47
Both	4
Invalid Data	0
Not applicable	0

**PERCENTAGE OF WATER UNACCOUNTED FOR**

No answer	1
0-5	5
5-10	21
10-15	18
15+	15
Invalid Data	0
Not applicable	0

**PERCENTAGE OF WATER SERVICE BILLS LIENED**

No answer	6
0-5	38
5-10	7
10-15	6
15+	3
Invalid Data	0
Not applicable	0

**PERCENTAGE OF SEWER SERVICE BILLS LIENED**

No answer	9
0-5	27
5-10	10
10-15	7
15+	3
Invalid Data	0
Not applicable	4

**COMMUNITIES WITH SHORTFALLS DUE TO LOWER THAN PROJECTED WATER USE**

No answer	7
Yes	29
No	24
Not applicable	0
Invalid Data	0
Not applicable	0

**MWRA CHARGES AS A PERCENTAGE OF TOTAL EXPENSES**

No answer	7
0-25	7
25-50	17
50-75	24
75+	5
Not applicable	0

**NUMBER OF MILES OF WATER PIPELINE REHABILITATED OR REPLACED IN FY11**

No answer	5
Less than 1	25
1-3	19
3-6	8
6+	3
Invalid Data	0
Not applicable	0

**NUMBER OF MILES OF SEWER PIPELINE REHABILITATED OR REPLACED IN FY11**

No answer	9
Less than 1	24
1-3	17
3-6	5
6+	1
Invalid Data	0
Not applicable	4

**HOW COMMUNITIES RECOVER STORMWATER COSTS**

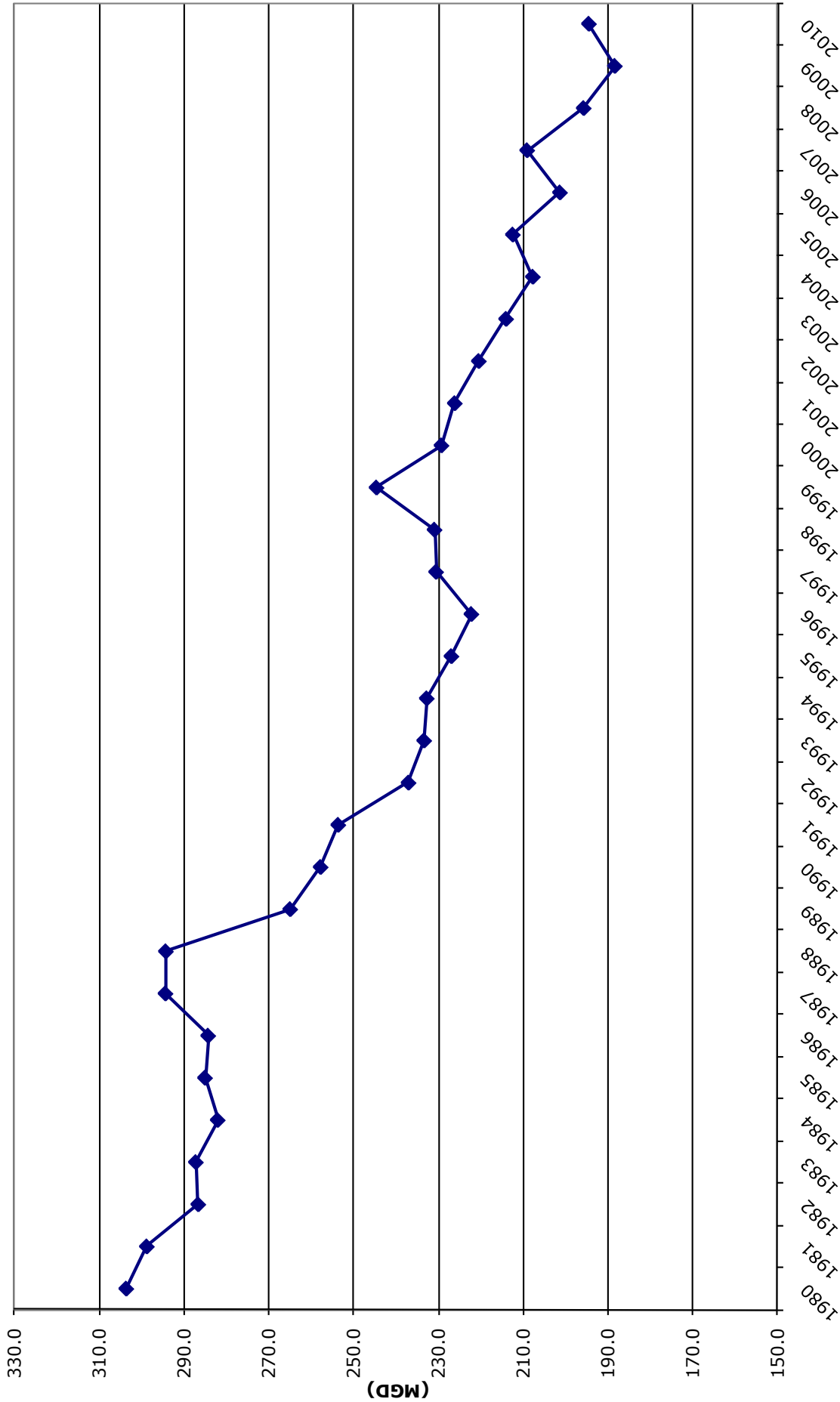
No answer	2
W/S Rates	13
Spec'l Assmt	4
DPW Budget	32
Other	8
Invalid Data	1
Not applicable	0

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# **APPENDIX F**

## **MWRA Water System Sales 1980 - 2010**

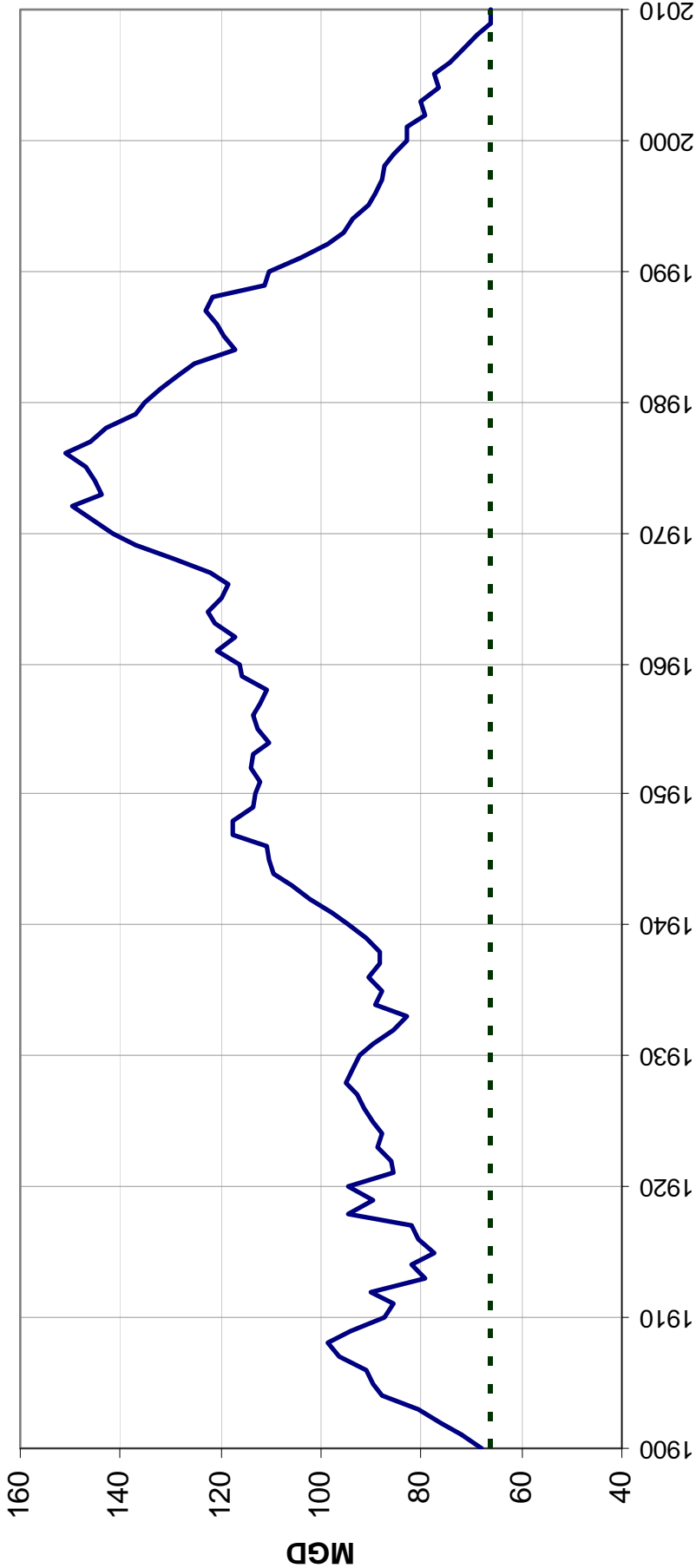
MWRA System Sales



# **APPENDIX G**

## **City of Boston Historical Demand 1900 - 2010**

City of Boston Historical Demand  
1900 - 2010





## ADVISORY BOARD MEMBERS

### CITY/TOWN

ARLINGTON  
ASHLAND  
BEDFORD  
BELMONT  
BOSTON  
BRAINTREE  
BROOKLINE  
BURLINGTON  
CAMBRIDGE  
CANTON  
CHELSEA  
CHICOPEE  
CLINTON  
DEDHAM  
EVERETT  
FRAMINGHAM  
HINGHAM  
HOLBROOK  
LEOMINSTER  
LEXINGTON  
LYNN  
LYNNFIELD  
MALDEN  
MARBLEHEAD  
MARLBOROUGH  
MEDFORD  
MELROSE  
MILTON  
NAHANT  
NATICK  
NEEDHAM  
NEWTON  
NORTHBOROUGH  
NORWOOD  
PEABODY  
QUINCY  
RANDOLPH  
READING  
REVERE  
SAUGUS  
SOMERVILLE  
SOUTH HADLEY  
SOUTHBOROUGH  
STONEHAM  
STOUGHTON  
SWAMPSCOTT  
WAKEFIELD  
WALPOLE  
WALTHAM  
WATERTOWN  
WELLESLEY  
WESTON  
WESTWOOD  
WEYMOUTH  
WILBRAHAM  
WILMINGTON  
WINCHESTER  
WINTHROP  
WOBBURN  
WORCESTER

### CEO

Clarissa Rowe  
John Petrin  
Walter J. St. Onge III  
Ralph T. Jones  
Hon. Thomas Menino  
Hon. Joseph C. Sullivan  
Betsy DeWitt  
Walter T. Zenkin  
Hon. David Maher  
John J. Connolly  
Jay Ash  
Hon. Michael Bissonnette  
Mary Rose Dickhaut  
Jim A. MacDonald  
Hon. Carlo DeMaria  
Charles J. Sisitsky  
John A. Riley  
Timothy J. Gordon  
Hon. Dean Mazzarella  
Hank Manz  
Hon. Judith Flanagan Kennedy  
Arthur Bourque III  
Hon. Richard C. Howard  
Jackie Belf-Becker  
Hon. Nancy Stevens  
Hon. Michael J. McGlynn  
Hon. Robert J. Dolan  
Robert C. Sweeney  
Mark Cullinan  
Charles M. Hughes  
Maurice P. Handel  
Hon. Setti D. Warren  
Jeff Amberson  
Michael J. Lyons  
Hon. Michael J. Bonfanti  
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Hon. Joseph A. Curtatone  
Robert G. Judge  
William J. Boland  
R. Paul Rotondi  
John J. Stagnone  
Matthew W. Strauss  
Patrick S. Glynn  
Eric A. Kraus  
Hon. Jeannette A. McCarthy  
Mark S. Sideris  
Barbara D. Searle  
Douglas P. Gillespie  
Patrick J. Ahearn  
Hon. Susan M. Kay  
Patrick J. Brady  
Louis Cimaglia, IV  
Forrest Fontana  
Jeffrey Rosario Turco  
Hon. Scott Galvin  
Hon. Joseph C. O'Brien

### DESIGNEE

Michael Rademacher  
Edward Maguire  
Richard Warrington  
Peter Castanino/Michael Bishop  
John Sullivan, Jr.\*  
Greg Riley  
Jay Hersey  
John Sanchez\*  
Timothy MacDonald\*  
Michael Trotta  
Andrew DeSantis\*  
Walter Ruzala  
  
David Field  
Jon E. Norton  
Peter Sellers  
Edmund Demko/Michael Salerno  
Thomas Cummings  
  
William Hadley\*  
Jay Fink\*  
Paul R. Humphries  
John Russell  
Charles R. McCollum  
Ron LaFreniere  
Cassandra Koutalidis  
  
Katherine Haynes Dunphy\*\*  
  
Winfield A. Peterson\*  
John Cosgrove/Robert Lewis  
Lou Taverna\*  
Kara Buzanoski/John L. Meader  
Bernard Cooper\*  
Peter Smyrnios  
Michael Coffey/Lawrence Prendeville  
Paul J. Connors  
Jeffrey Zager  
Nicholas J. Rystrom  
Joseph Attubato  
Rob King  
John Mikuszewski  
Karen Galligan  
John DeAmicis\*  
Ana Singleton  
Gino A. Cresta, Jr.  
Carol Antonelli\*/Richard Stinson  
Patrick Fasanello  
  
Gerald Mee  
Walter Woods\*  
Earl J. Forman  
Robert Angelo/Vickie Vickrey Quiram  
Michael L.J. Chiasson  
Zigmund A. Peret\*  
Michael Woods/Joseph Lobao  
Stephen Swymer  
Guy Brandenstein  
Anthony Blazejowski  
Robert Moylan, Jr.

### Gubernatorial Appointees:

Quabbin and Ware Watershed - J.R. Greene  
Wachusett Watershed - Barbara Wyatt  
Environmental Protection - Vacant  
Boston Harbor - Vacant  
Boston Harbor - Vacant  
Connecticut River Basin - Vacant

### MAPC Appointee:

Edward G. Bates

\*Member of Executive Committee

\*\*Chairman of Executive Committee

### Advisory Board Designees to the MWRA Board of Directors:

John Carroll – Norwood  
Andrew Pappastergion – Brookline  
Joseph Foti – Chelsea