

Annual Water and Sewer Retail Rate Survey

MWRA ADVISORY BOARD

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

2009



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

2009

Annual Water and Sewer Retail Rate Survey

Joseph E. Favaloro
Executive Director



TABLE OF CONTENTS

SECTION	PAGE
Introduction	ii
MWRA Community 2009 Water and Sewer Charges	Section I
Select Non-MWRA Massachusetts Community 2009 Charges	Section II
Select U.S. Cities Residential 2009 Water and Sewer Charges	Section III
2008 Water & Sewer Retail Rate Information	Appendix A
Second Meter Information and Glossary	Appendix B
Final MWRA Fiscal Year 2008 Billable Water and Sewer Charges	Appendix C
Additional 2008 Data for MWRA Communities	Appendix D
MWRA Water System Demand 1980 - 2009	Appendix E
City of Boston Historical Demand 1900 - 2009	Appendix F

Introduction

This is the twenty-third "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) 742-7561**, or email us at 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 2000 United States Census information and calendar year 2008 domestic water usage by community, provided by local water departments to the Massachusetts Department of Environmental Protection (DEP). Previously, 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. **This year, 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 new 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

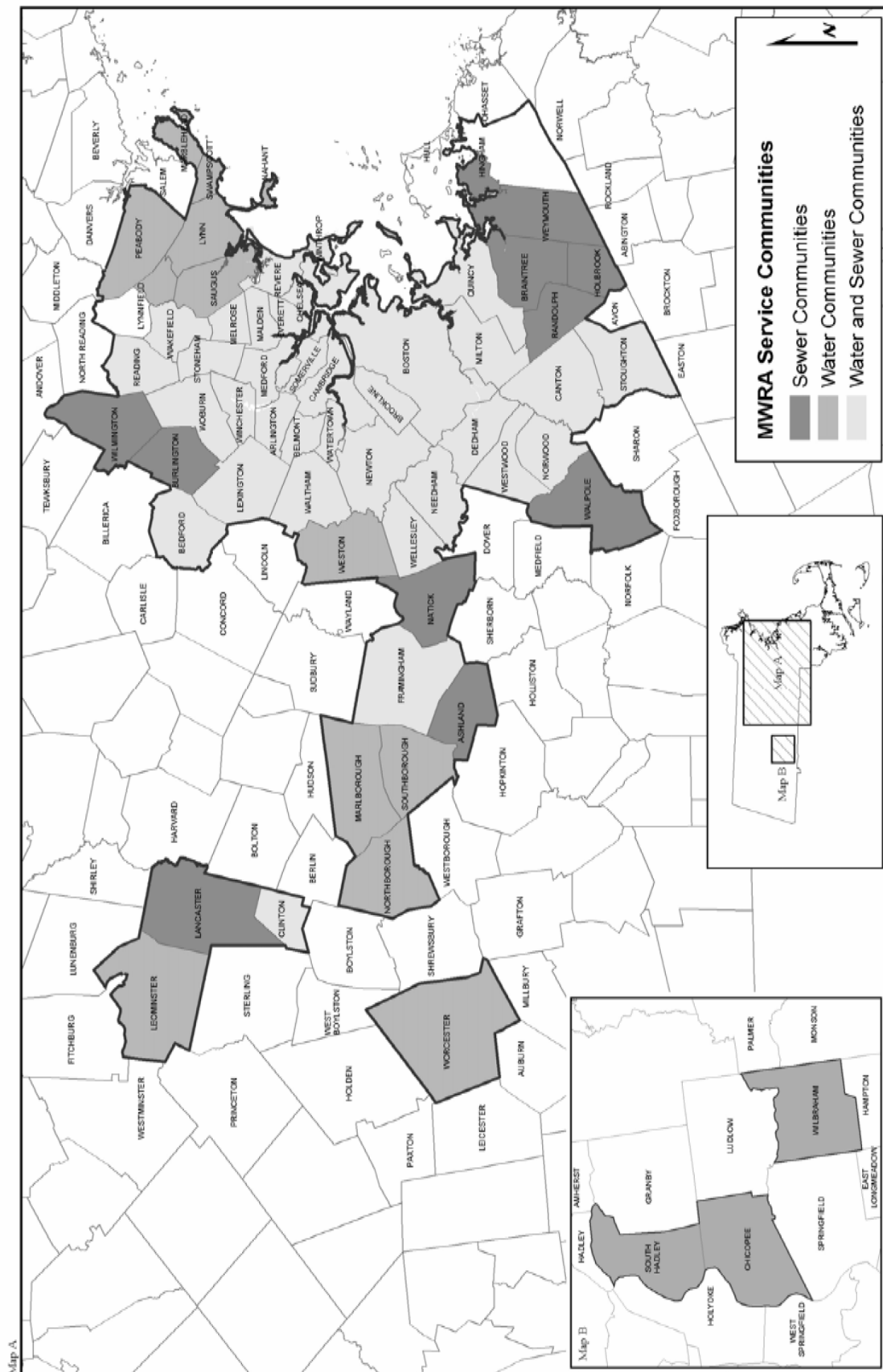
The MWRA Advisory Board was created by the Massachusetts Legislature in 1984 to represent the interests of Massachusetts Water Resources Authority service area communities. The Advisory Board includes one representative from each of the sixty communities that receive water and/or sewer services from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

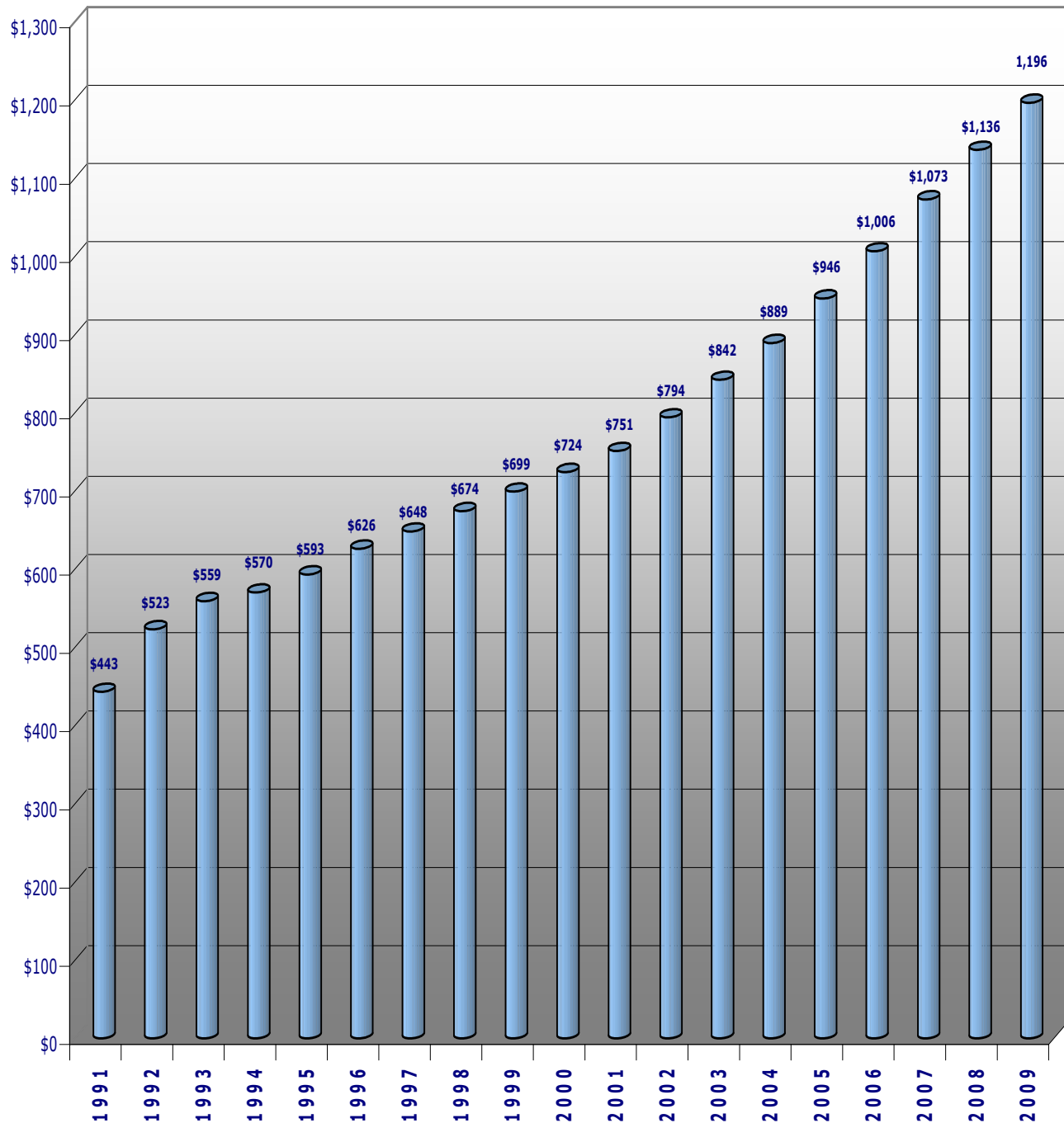
- Serving as a watchdog over the MWRA to ensure proper management and budgetary control;
- Making recommendations on annual expense budgets, capital improvement programs, business planning, and user charges;
- Holding hearings on matters relating to the MWRA and making subsequent recommendations to the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

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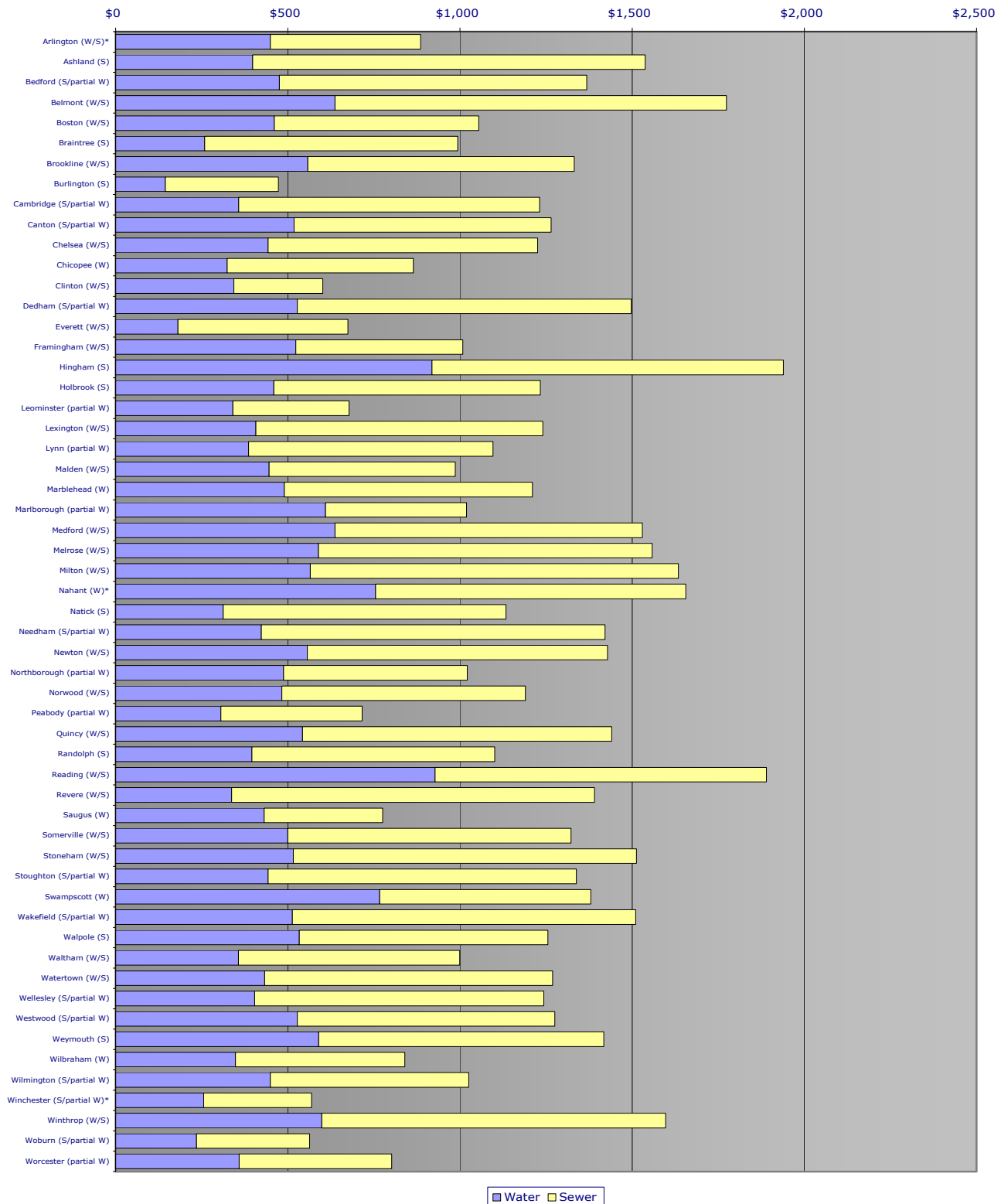
MWRA COMMUNITY 2009 WATER AND SEWER CHARGES



Combined Annual Water & Sewer Charges in MWRA Communities 1991 – 2009 (Consumption at 120 HCF \approx 90 kgal)



2009 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 2009		
	2008	2009
Avg. combined water and sewer cost	\$1,136.03	\$1,196.20
Percent change from prior year	5.9%	5.3%
<u>WATER BILLING FREQUENCY</u>		
Semi-Annual	13	12
Tri-Annual	2	2
Quarterly	39	40
Bi-Monthly	1	1
Monthly	5	5
<u>WATER RATE STRUCTURE</u>		
Ascending Block with Base/Minimum Charge	24	28
Ascending Block only	16	13
Flat Rate with Base/Minimum Charge	7	8
Flat Rate only	12	10
Fixed Fee	1	1
<u>SENIOR CITIZEN/LOW-INCOME DISCOUNTS</u>		
Yes	24	25
No (or n/a)	36	35
<u>DEBT SERVICE EXCLUSION</u>	3	3
<u>CHANGES IN COMBINED WATER AND SEWER CHARGES</u>		
Decrease	4	2
No change	13	14
0% to 10% increase	31	36
10% to 20% increase	10	7
20% to 30% increase	1	1
30% to 40% increase	0	0
40% to 50% increase	0	0
Greater than 50% increase	1	0

**ANNUAL WATER AND SEWER CHARGES IN
COMMUNITIES RECEIVING SERVICES FROM THE MWRA
2009**

	Water	Sewer
Arlington (W/S)*	\$449.00	\$436.80
Ashland (S)	-	1,140.00
Bedford (S/partial W)	475.00	893.00
Belmont (W/S)	636.96	1,137.00
Boston (W/S)	461.11	593.06
Braintree (S)	-	734.40
Brookline (W/S)	558.00	774.00
Burlington (S)	-	327.90
Cambridge (S/partial W)	357.60	873.60
Canton (S/partial W)	518.40	746.40
Chelsea (W/S)	442.80	782.40
Chicopee (W)	324.00	-
Clinton (W/S)	343.60	257.70
Dedham (S/partial W)	527.44	969.60
Everett (W/S)	181.20	493.20
Framingham (W/S)	523.44	484.32
Hingham (S)	-	1,020.00
Holbrook (S)	-	774.00
Leominster (partial W)	340.80	-
Lexington (W/S)	407.60	832.80
Lynn (partial W)	386.40	-
Lynnfield (W)	354.80	-
Malden (W/S)	445.44	540.72
Marblehead (W)	490.00	-
Marlborough (partial W)	609.60	-
Medford (W/S)	637.20	892.80
Melrose (W/S)	589.20	968.76
Milton (W/S)	565.20	1,068.72
Nahant (W)*	754.80	-
Natick (S)	-	821.10
Needham (S/partial W)	423.00	997.80
Newton (W/S)	556.80	871.60
Northborough (partial W)	487.64	-
Norwood (W/S)	482.52	707.11
Peabody (partial W)	306.00	-
Quincy (W/S)	542.40	897.96
Randolph (S)	-	704.40
Reading (W/S)	927.60	962.40
Revere (W/S)	337.20	1,053.60
Saugus (W)	431.00	-
Somerville (W/S)	500.22	822.00
South Hadley (W)	403.00	-
Southborough (W)	410.32	-
Stoneham (W/S)	516.00	996.00
Stoughton (S/partial W)	442.80	895.20
Swampscott (W)	766.40	-
Wakefield (S/partial W)	513.00	996.84
Walpole (S)	-	721.63
Waltham (W/S)	356.64	642.72
Watertown (W/S)	432.68	836.40
Wellesley (S/partial W)	403.68	840.00
Weston (W)	244.20	-
Westwood (S/partial W)	527.44	748.00
Weymouth (S)	-	827.60
Wilbraham (W)	348.00	-
Wilmington (S/partial W)	-	576.00
Winchester (S/partial W)*	255.60	313.20
Winthrop (W/S)	598.80	998.40
Woburn (S/partial W)	235.00	328.00
Worcester (partial W)	358.80	-
AVERAGE	\$463.73	\$779.53
Percent change	1.3%	6.1%

Water and Sewer Charges are based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons).

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

COMBINED ANNUAL WATER AND SEWER CHARGES IN MWRA COMMUNITIES

2009

(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)*	\$449.00	\$436.80	\$885.80	7.3%
Ashland (S)	398.00	1,140.00	1,538.00	6.5%
Bedford (S/partial W)	475.00	893.00	1,368.00	14.0%
Belmont (W/S)	636.96	1,137.00	1,773.96	5.4%
Boston (W/S)	461.11	593.06	1,054.18	3.5%
Braintree (S)	259.00	734.40	993.40	0.0%
Brookline (W/S)	558.00	774.00	1,332.00	5.7%
Burlington (S)	144.50	327.90	472.40	6.2%
Cambridge (S/partial W)	357.60	873.60	1,231.20	6.3%
Canton (S/partial W)	518.40	746.40	1,264.80	3.8%
Chelsea (W/S)	442.80	782.40	1,225.20	6.0%
Chicopee (W)	324.00	540.30	864.30	6.4%
Clinton (W/S)	343.60	257.70	601.30	0.0%
Dedham (S/partial W)	527.44	969.60	1,497.04	0.8%
Everett (W/S)	181.20	493.20	674.40	0.0%
Framingham (W/S)	523.44	484.32	1,007.76	8.2%
Hingham (S)	918.98	1,020.00	1,938.98	15.8%
Holbrook (S)	459.60	774.00	1,233.60	0.0%
Leominster (partial W)	340.80	336.80	677.60	22.4%
Lexington (W/S)	407.60	832.80	1,240.40	-3.8%
Lynn (partial W)	386.40	709.20	1,095.60	2.5%
Malden (W/S)	445.44	540.72	986.16	1.6%
Marblehead (W)	490.00	720.00	1,210.00	3.4%
Marlborough (partial W)	609.60	409.20	1,018.80	0.0%
Medford (W/S)	637.20	892.80	1,530.00	0.0%
Melrose (W/S)	589.20	968.76	1,557.96	6.1%
Milton (W/S)	565.20	1,068.72	1,633.92	2.9%
Nahant (W)*	754.80	901.20	1,656.00	3.8%
Natick (S)	312.40	821.10	1,133.50	6.1%
Needham (S/partial W)	423.00	997.80	1,420.80	0.0%
Newton (W/S)	556.80	871.60	1,428.40	12.0%
Northborough (partial W)	487.64	533.64	1,021.28	7.3%
Norwood (W/S)	482.52	707.11	1,189.63	5.1%
Peabody (partial W)	306.00	409.80	715.80	0.0%
Quincy (W/S)	542.40	897.96	1,440.36	7.7%
Randolph (S)	396.00	704.40	1,100.40	6.8%
Reading (W/S)	927.60	962.40	1,890.00	3.3%
Revere (W/S)	337.20	1,053.60	1,390.80	7.8%
Saugus (W)	431.00	344.00	775.00	0.0%
Somerville (W/S)	500.22	822.00	1,322.22	5.2%
Stoneham (W/S)	516.00	996.00	1,512.00	5.0%
Stoughton (S/partial W)	442.80	895.20	1,338.00	0.0%
Swampscott (W)	766.40	613.40	1,379.80	12.4%
Wakefield (S/partial W)	513.00	996.84	1,509.84	10.3%
Walpole (S)	533.64	721.63	1,255.27	7.0%
Waltham (W/S)	356.64	642.72	999.36	0.0%
Watertown (W/S)	432.68	836.40	1,269.08	6.0%
Wellesley (S/partial W)	403.68	840.00	1,243.68	8.7%
Westwood (S/partial W)	527.44	748.00	1,275.44	-0.8%
Weymouth (S)	590.04	827.60	1,417.64	7.5%
Wilbraham (W)	348.00	492.00	840.00	13.8%
Wilmington (S/partial W)	449.60	576.00	1,025.60	7.5%
Winchester (S/partial W)*	255.60	313.20	568.80	0.0%
Winthrop (W/S)	598.80	998.40	1,597.20	10.3%
Woburn (S/partial W)	235.00	328.00	563.00	9.5%
Worcester (partial W)	358.80	442.56	801.36	6.7%
AVERAGE	\$468.50	\$727.70	\$1,196.20	5.3%

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 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge per bill \$16.90 (for both)
 0 – 200 HCF/fiscal year \$ 3.46/HCF
 >200 HCF \$ 5.08 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge per bill n/a
 First 1,000 HCF/fiscal year \$3.64/HCF
 >1,000 HCF \$7.26 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$449.00
Sewer	\$436.80
Combined	\$885.80
% change from 2008	7.3%

Annual Cost Actual Community Usage (66.8 HCF = DEP Data Provided by Community)	
Water	\$264.93
Sewer	\$243.15
Combined	\$508.08

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



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

Ashland (S)

Residential Water Rates:

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

Base charge per bill	\$30.00
0 – 20 HCF	\$ 2.57/HCF
>20 - 70 HCF	\$ 2.94 "
>70 - 150 HCF	\$ 3.82 "
>150 - 300 HCF	\$ 4.88 "
>300 HCF	\$ 5.38 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

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

Base charge per bill	\$30.00
0 – 20 HCF	\$ 8.52/HCF
>20 - 70 HCF	\$ 9.24 "
>70 - 150 HCF	\$ 9.94 "
>150 - 300 HCF	\$10.65 "
>300 HCF	\$12.78"

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$398.00
Sewer	\$1,140.00
Combined	\$1,538.00
% change from 2008	6.5%

Annual Cost Actual Community Usage (84.8 HCF = DEP Data Provided by Community)	
Water	\$294.51
Sewer	\$814.75
Combined	\$1,109.26

Commercial Water Rates:

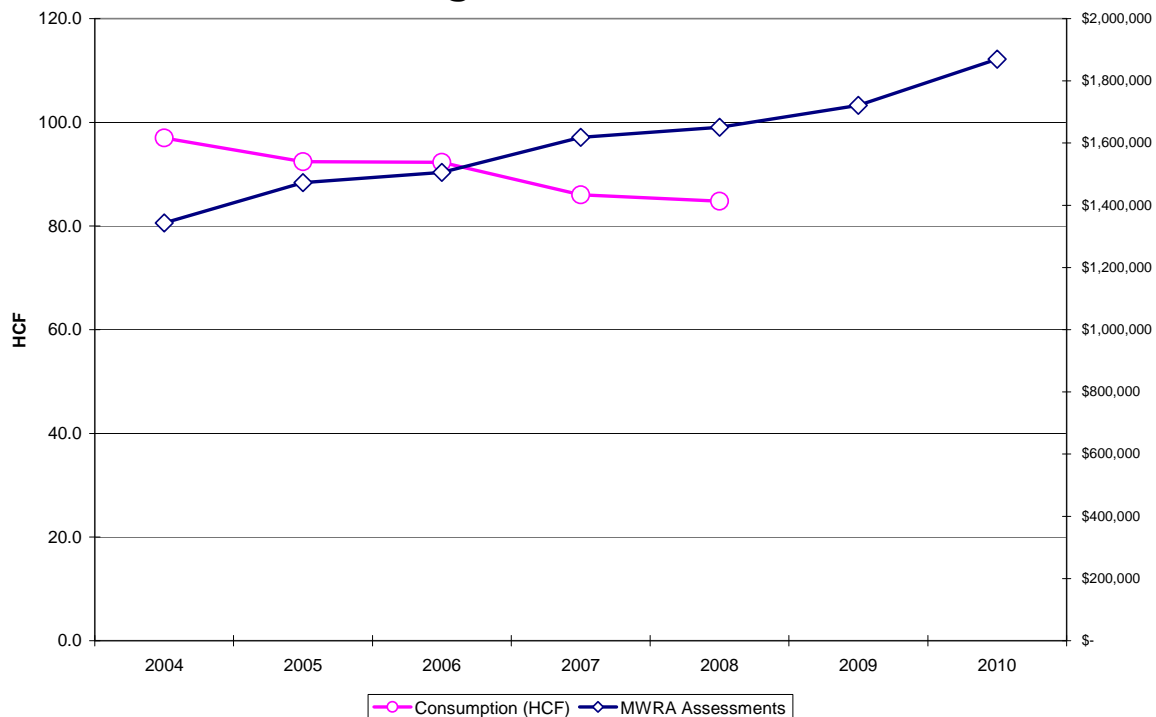
Same as residential

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 2009
 Next adjustment scheduled: July 2010
 Fund: General

Base charge per bill \$17.50
 1 – 20 HCF \$ 1.00/HCF
 > 20 HCF \$ 5.00 "

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Special Revenue

Base charge per bill \$17.50
 1 – 20 HCF \$ 3.00/HCF
 > 20 HCF \$ 9.10 "
 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	\$475.00
Sewer	\$893.00
Combined	\$1,368.00
% change from 2008	14.0%

Annual Cost Actual Community Usage (92.9 HCF = DEP Data Provided by Community)	
Water	\$339.50
Sewer	\$636.39
Combined	\$975.89

Commercial Water Rates:

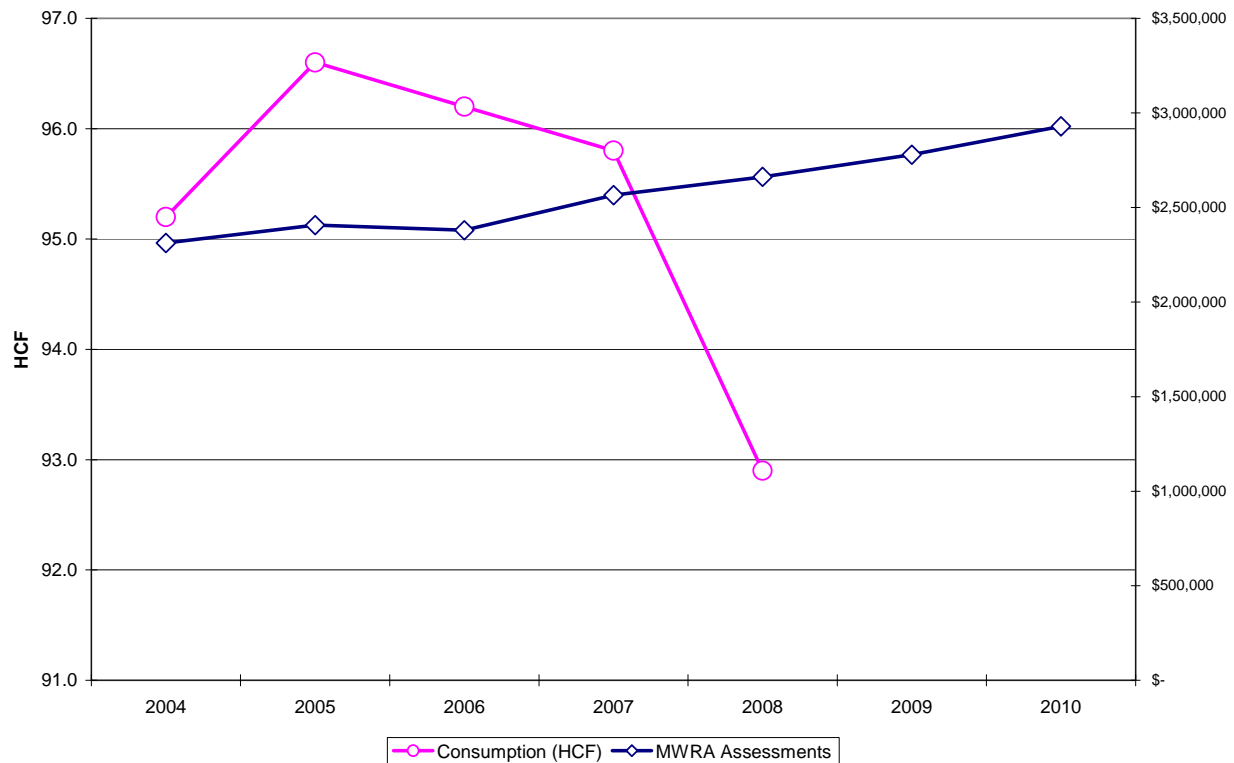
Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Actual Water Usage versus MWRA Assessments



Belmont (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge per bill \$16.44
 All units \$ 4.76/HCF

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge per bill \$6.45
 All units \$9.26/HCF
 Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$636.96
Sewer	\$1,137.00
Combined	\$1,773.96
% change from 2008	5.4%

Annual Cost Actual Community Usage (101.8 HCF = DEP Data Provided by Community)	
Water	\$484.57
Sewer	\$942.67
Combined	\$1,427.24

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: \$1.99/HCF (Water) \$7.85/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 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

First 19 CF/Day \$3.768/HCF
 Next 20 CF \$3.945 "
 Next 50 CF \$4.108 "
 Next 260 CF \$4.368 "
 Next 950 CF \$4.558 "
 Over 1,299 CF \$4.719 "

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

First 19 CF/Day \$4.879/HCF
 Next 20 CF \$5.029 "
 Next 50 CF \$5.131 "
 Next 260 CF \$5.413 "
 Next 950 CF \$5.712 "
 Over 1,299 CF \$5.910 "
 Based on 100% of water usage.

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$461.11
Sewer	\$593.06
Combined	\$1,054.18
% change from 2008	3.5%

Annual Cost Actual Community Usage (62.2 HCF = DEP Data Provided by Community)	
Water	\$234.35
Sewer	\$303.45
Combined	\$537.81

Commercial Water Rates:

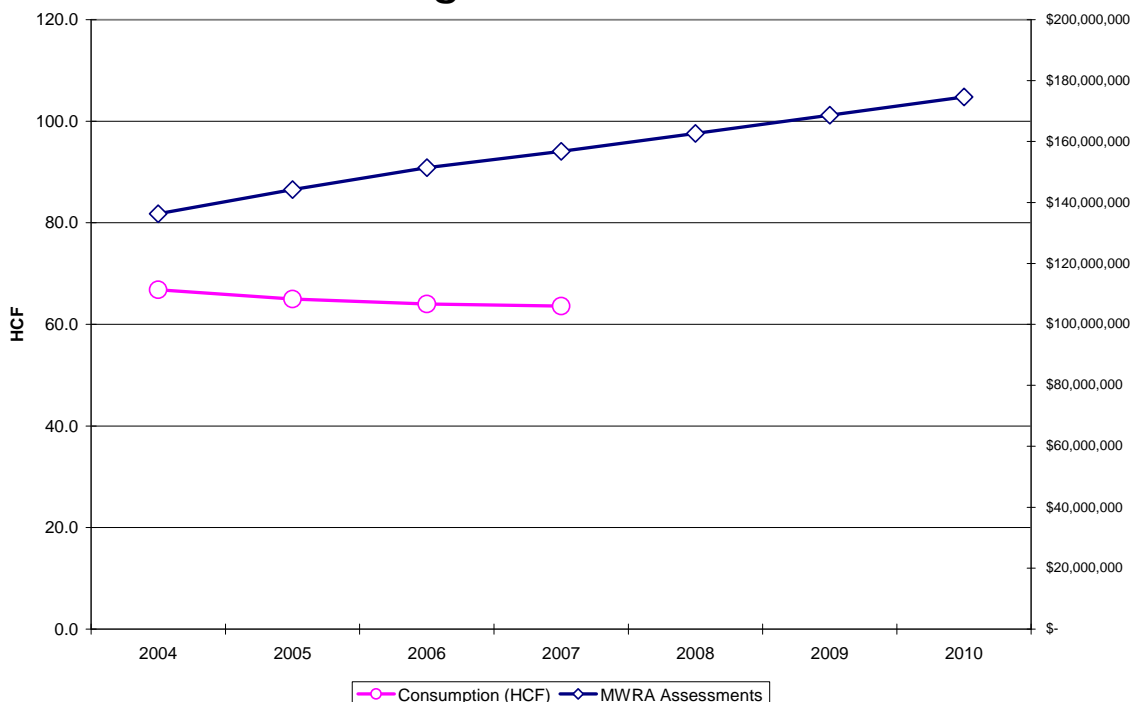
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Braintree (\$)

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 \$ 4.88 "

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 2008	0.0%

Annual Cost Actual Community Usage (71.5 HCF = DEP Data Provided by Community)	
Water	\$160.72
Sewer	\$425.00
Combined	\$585.72

Commercial Water Rates:

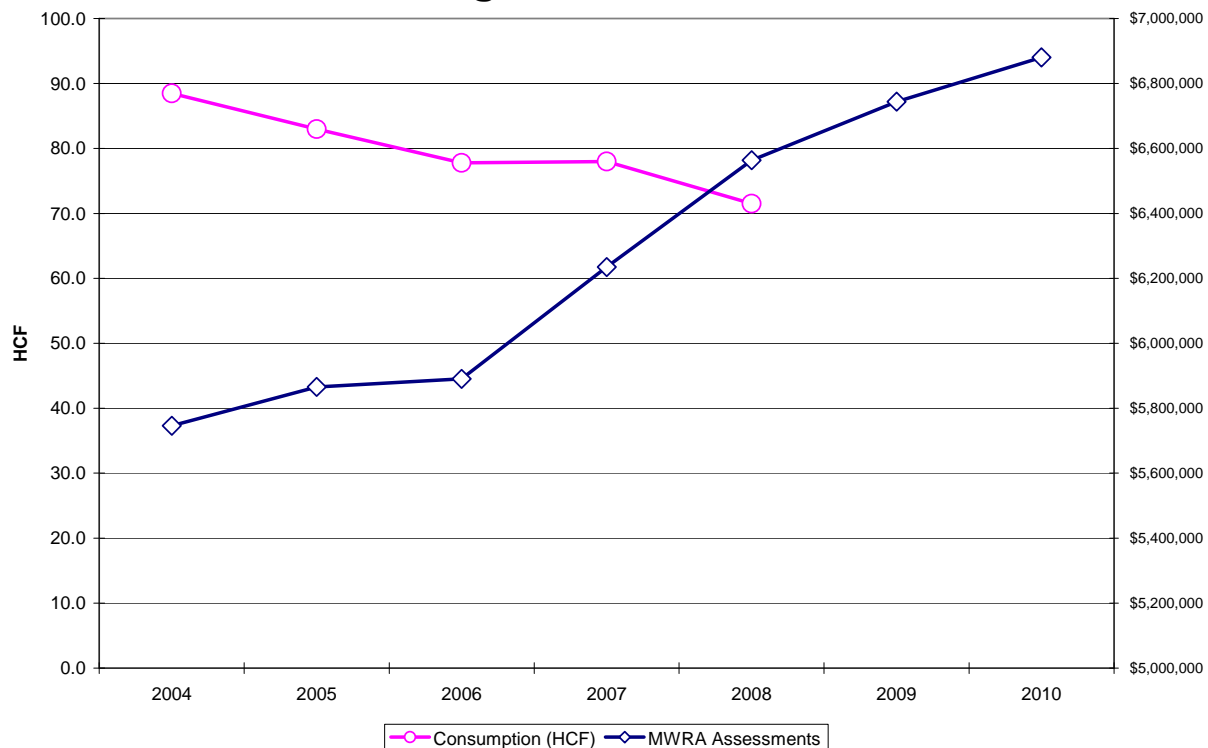
Same as residential

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 water customers, residential and commercial, if bill is paid within 30 days.

Brookline (W/S)

Residential Water Rates:

Last adjusted: July 1, 2009
 Next adjustment scheduled: July 1, 2010
 Fund: Enterprise
 All units \$4.65/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 1, 2009
 Next adjustment scheduled: July 1, 2010
 Fund: Enterprise
 All units \$6.45/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$558.00
Sewer	\$774.00
Combined	\$1,332.00
% change from 2008	5.7%

Annual Cost Actual Community Usage (72.4 HCF = DEP Data Provided by Community)	
Water	\$336.66
Sewer	\$466.98
Combined	\$803.64

Commercial Water Rates:

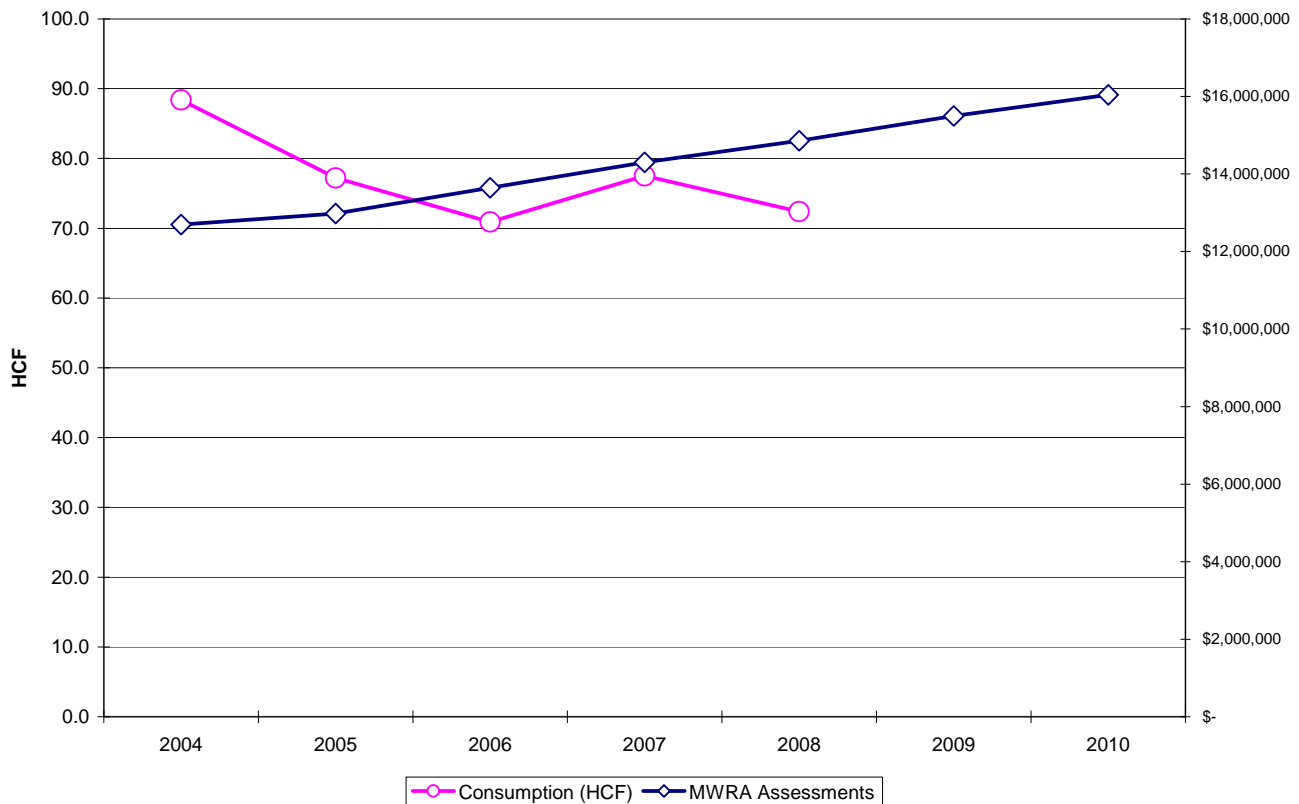
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Burlington (S)

Residential Water Rates:

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

First 20 kgal	\$31.00
>20 – 30 kgal	\$ 1.50/kgal
>30 – 50 kgal	\$ 1.75 "
>50 – 70 kgal	\$ 2.70 "
>70 – 90 kgal	\$ 3.70 "
>90 kgal	\$ 4.30 "

Residential Sewer Rates:

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

First 20 kgal	\$31.45
>20 – 30 kgal	\$ 4.85/kgal
>30 – 50 kgal	\$ 5.60 "
>50 – 70 kgal	\$ 6.35 "
>70 – 90 kgal	\$ 7.65 "
>90 kgal	\$ 8.90 "

Based on 100% of water usage.

Billing Frequency: Residential: Semi-annually Commercial: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$144.50
Sewer	\$327.90
Combined	\$472.40
% change from	6.2%
2008	

Annual Cost Actual Community Usage (69.9 HCF = DEP Data Provided by Community)	
Water	\$78.43
Sewer	\$122.48
Combined	\$200.91

Commercial Water Rates:

First 10 kgal	\$15.50
>10 – 15 kgal	\$ 1.90/kgal
>15 – 35 kgal	\$ 2.70 "
>35 kgal	\$ 4.30 "

Commercial Sewer Rates:

First 10 kgal	\$15.75
>10 – 15 kgal	\$ 4.60/kgal
>15 – 35 kgal	\$ 5.05 "
>35 kgal	\$ 8.30 "

Senior and/or Low Income Discounts: None

Actual Water Usage versus MWRA Assessments



Cambridge (S/partial W)

Residential Water Rates:

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

0 – 40 HCF/year	\$2.98/HCF
>40 – 400 HCF	\$3.19 "
>400 – 2,000 HCF	\$3.39"
>2,000 – 10,000 HCF	\$3.60 "
>10,000 HCF	\$3.90 "

Residential Sewer Rates:

Last adjusted: April 2009
 Next adjustment scheduled: No answer
 Fund: General

0 – 40 HCF/year	\$7.28/HCF
>40 – 400 HCF	\$7.71 "
>400 – 2,000 HCF	\$8.28"
>2,000 – 10,000 HCF	\$8.92 "
>10,000 HCF	\$9.40 "

Based on 100% of water usage.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$357.60
Sewer	\$873.60
Combined	\$1,231.20
% change from 2008	6.3%

Annual Cost Actual Community Usage (61.1 HCF = DEP Data Provided by Community)	
Water	\$186.51
Sewer	\$453.88
Combined	\$640.39

Commercial Water Rates:

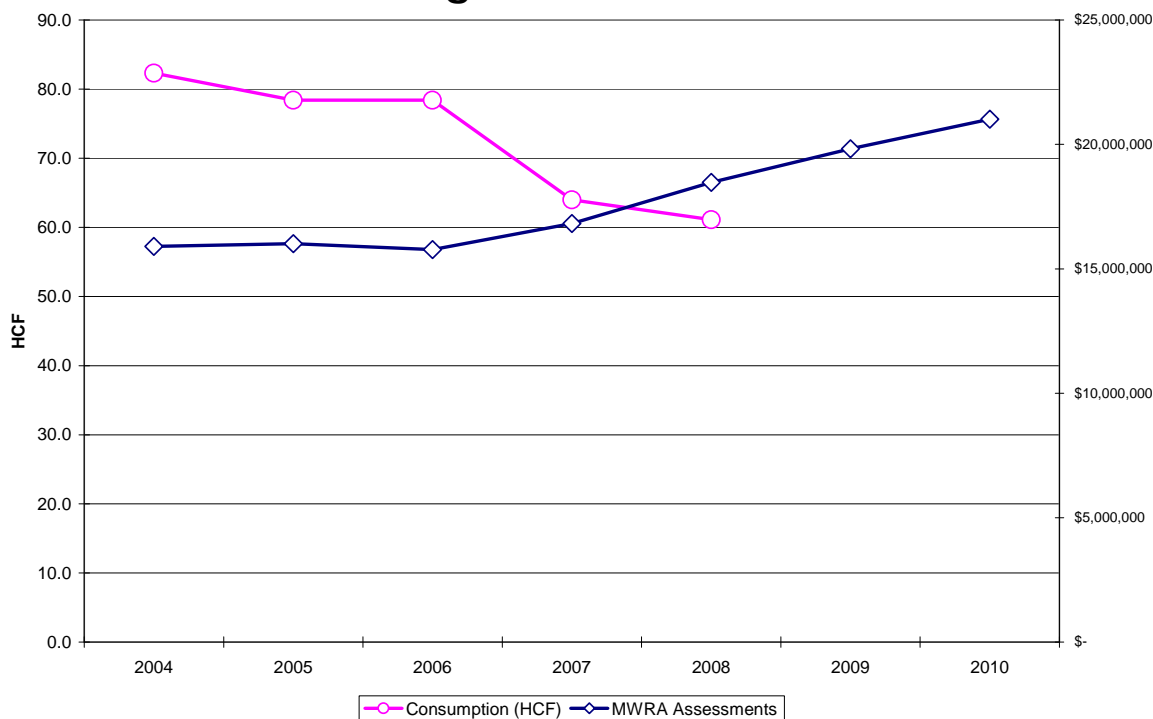
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Canton (S/partial W)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

1 – 15 HCF	\$ 3.34/HCF
>15 – 40 HCF	\$ 5.30 "
>40 – 60 HCF	\$ 9.55 "
>60 HCF	\$11.08 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

1 – 15 HCF	\$6.01/HCF
>15 – 40 HCF	\$6.43 "
>40 – 60 HCF	\$8.02 "
>60 HCF	\$9.97 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$518.40
Sewer	\$746.40
Combined	\$1,264.80
% change from 2008	3.8%

Annual Cost Actual Community Usage (88.5 HCF = DEP Data Provided by Community)	
Water	\$351.45
Sewer	\$543.86
Combined	\$895.31

Commercial Water Rates:

Water

1 – 400 HCF	\$ 7.84
>400 HCF	\$11.67

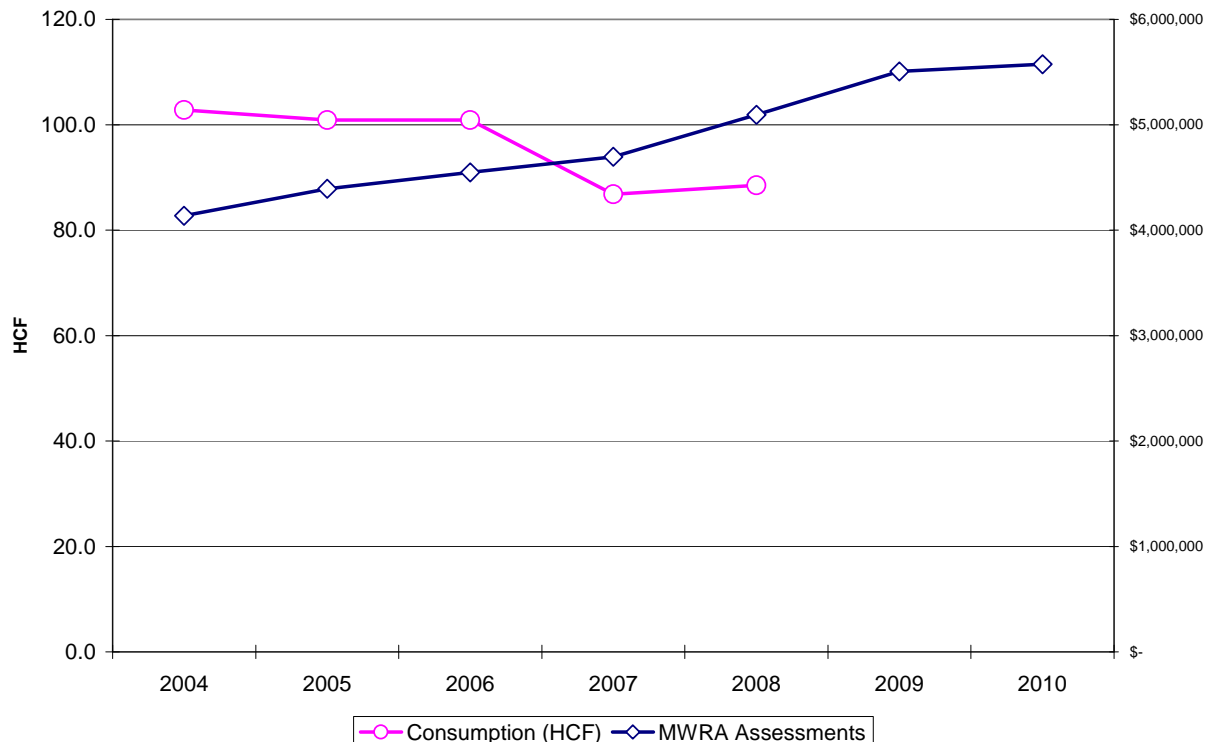
Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

Sewer

1 – 400 HCF	\$ 8.09
>400 HCF	\$13.31

Actual Water Usage versus MWRA Assessments



Chelsea (W/S)

Residential Water Rates:

Last adjusted: January 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise
 0 – 10 HCF \$3.69/HCF
 >10 – 15 HCF \$4.49 "
 >15 HCF \$5.37 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise
 0 – 10 HCF \$6.52/HCF
 >10 – 15 HCF \$7.11 "
 >15 HCF \$8.17 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$442.80
Sewer	\$782.40
Combined	\$1,225.20
% change from 2008	6.0%

Annual Cost Actual Community Usage (72.3 HCF = DEP Data Provided by Community)	
Water	\$266.79
Sewer	\$471.40
Combined	\$738.19

Commercial Water Rates:

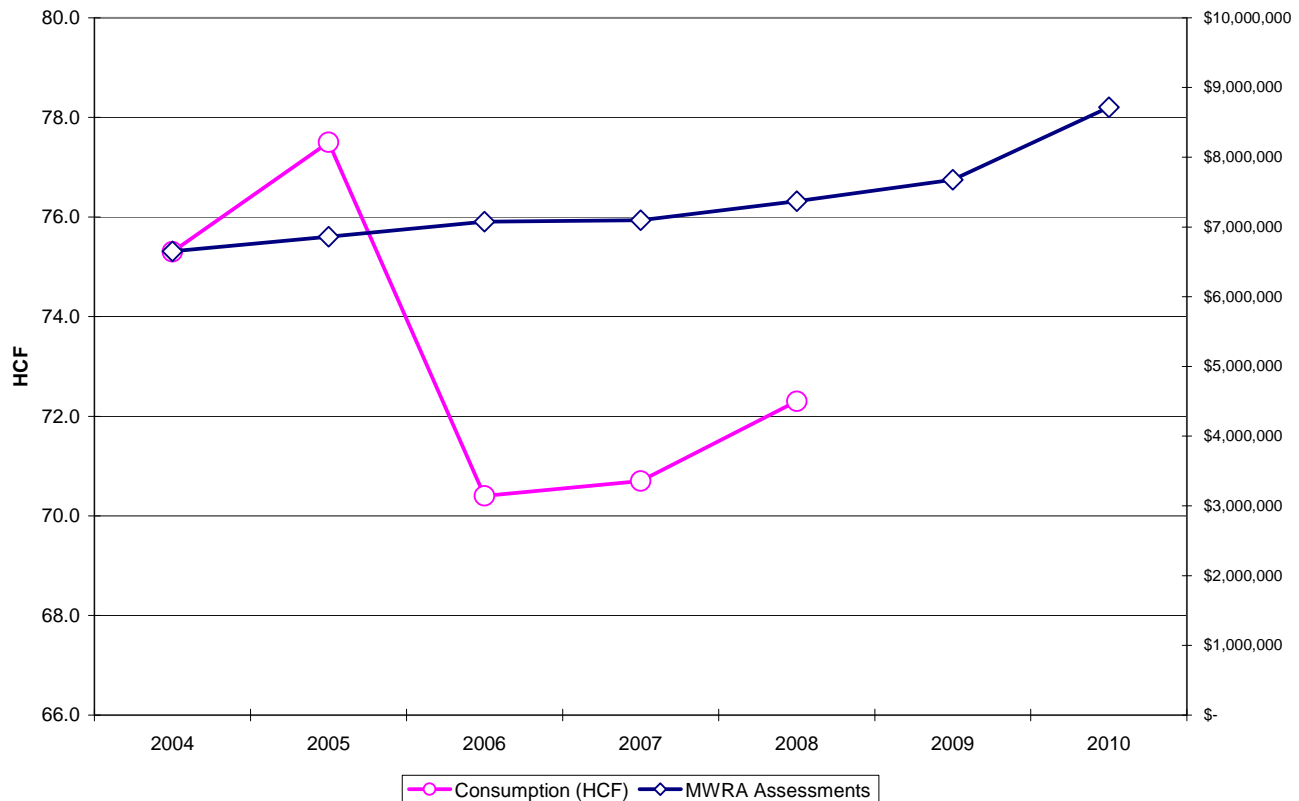
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Chicopee (W)

Residential Water Rates:

Last adjusted: October 2007
 Next adjustment scheduled: No answer
 Fund: Special Revenue

All units \$ 2.70/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: No answer
 Fund: Special Revenue (Sewer Use Fee)

Minimum Charge per bill (<334 CF): \$10.00/quarter
 CSO Fee \$25.00
 0 – 10 HCF \$ 3.50/HCF
 >10 HCF \$ 4.20 "

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	\$540.30
Combined	\$864.30
% change from 2008	6.4%

Annual Cost Actual Community Usage (71.3 HCF = DEP Data Provided by Community)	
Water	\$192.51
Sewer	\$371.46
Combined	\$563.97

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 2008	0.0%

Annual Cost Actual Community Usage (80.7 HCF = DEP Data Provided by Community)	
Water	\$279.31
Sewer	\$209.48
Combined	\$488.79

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



- ♦ 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: March 2009
 Next adjustment scheduled: Undetermined
 Fund: Enterprise

Minimum charge per bill
 includes first 5 HCF ($\frac{5}{8}$ " meter) \$29.61

>5 – 51 HCF \$ 4.09/HCF
 >52 – 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 2010
 Fund: Enterprise

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

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$527.44
Sewer	\$969.60
Combined	\$1,497.04
% change from 2008	0.8%

Annual Cost Actual Community Usage (86.2 HCF = DEP Data Provided by Community)	
Water	\$389.20
Sewer	\$696.50
Combined	\$1,085.69

Commercial Water Rates:

Minimum charge $\frac{5}{8}$ " with 9 HCF allowance: \$50.17

All units in excess of allowance \$ 4.09/HCF

Commercial Sewer Rates:

Base/Minimum Charge: \$45.20

All units \$11.30/HCF

Senior and/or Low Income Discounts: Sewer – \$750.00

Water – minimum residential rate \$29.61

Actual Water Usage versus MWRA Assessments



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 2008	0.0%

Annual Cost Actual Community Usage (93.5 HCF = DEP Data Provided by Community)	
Water	\$141.19
Sewer	\$384.29
Combined	\$525.47

Commercial Water Rates:

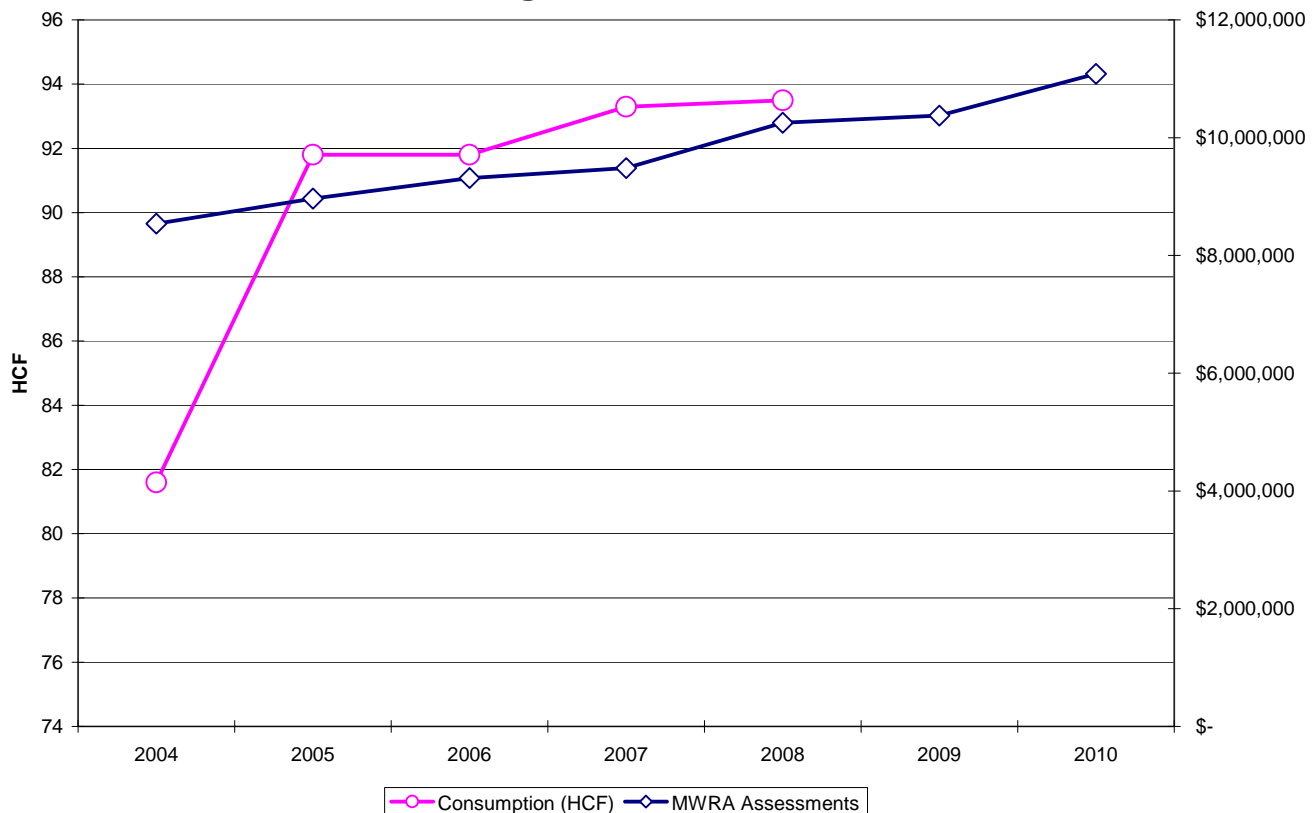
Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 15% on water only.

Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2008 data.
 Please see Introduction for more detail.**

Framingham (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 12 HCF	\$4.04/HCF
>12 – 27 HCF	\$4.46 "
>27 – 51 HCF	\$5.16 "
>51 – 750 HCF	\$6.10 "
>750 HCF	\$7.28 "

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 12 HCF	\$3.84/HCF
>12 – 27 HCF	\$3.95 "
>27 – 51 HCF	\$5.25 "
>51 – 750 HCF	\$7.52 "
>750 HCF	\$10.90 "

Based on 100% of water usage.

Billing Frequency: Quarterly, some commercial monthly

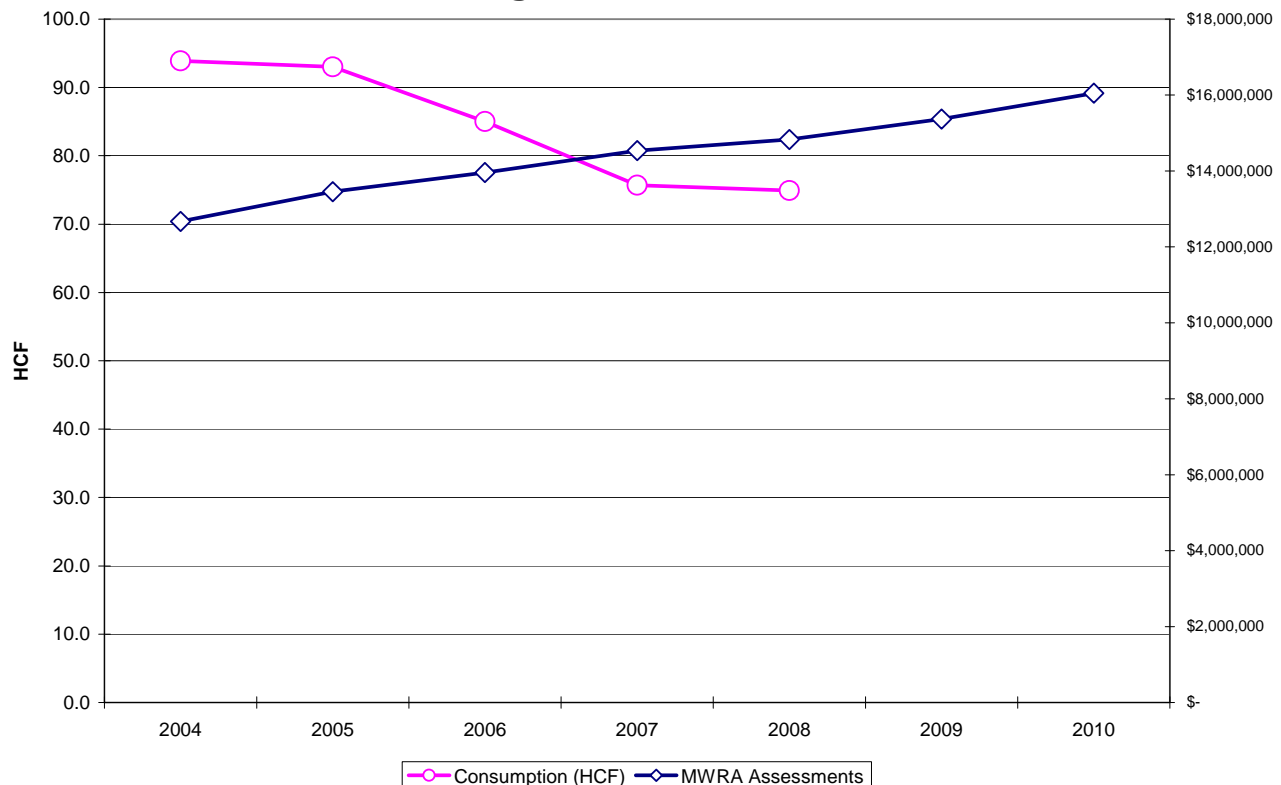
Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$523.44
Sewer	\$484.32
Combined	\$1,007.76
% change from 2008	8.2%

Annual Cost Actual Community Usage (74.9 HCF = DEP Data Provided by Community)	
Water	\$313.89
Sewer	\$290.58
Combined	\$604.47

Commercial Water Rates:**Commercial Sewer Rates:**

Senior and/or Low Income Discounts: 25% discount on water and sewer Tier 1 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: No answer
 Fund: Private Company

Base charge (5/8" meter) \$83.28/bill
 0 – 12 HCF \$ 2.574/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 2009
 Next adjustment scheduled: May 2010
 Fund: Special Revenue

All units \$8.50/HCF
 Based on 100% of water usage.

Sewer: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$918.98
Sewer	\$1,020.00
Combined	\$1,938.98
% change from 2008	15.8%

Annual Cost Actual Community Usage (92.8 HCF = DEP Data Provided by Community)	
Water	\$776.16
Sewer	\$788.80
Combined	\$1,564.96

Commercial Water Rates:

Base charge (5/8" meter): \$83.280/quarter
 All units: \$ 1.898/HCF
 Senior and/or Low Income Discounts: No answer.

Commercial Sewer Rates:

Same as residential.

Actual Water Usage versus MWRA Assessments



- ◆ Hingham's water services are provided by the Aquarion Water Company
- ◆ A surcharge credit for \$24.75/quarter (5/8" meter) expired in 2008.

Holbrook (S)

Residential Water Rates:

Last adjusted: June 2008
 Next adjustment scheduled: No answer
 Fund: Enterprise
 Minimum charge \$98.00/year
 All units \$ 3.83/HCF
 Billing Frequency: Quarterly (2 estimated bills)

Residential Sewer Rates:

Last adjusted: June 2008
 Next adjustment scheduled: No answer
 Fund: Enterprise
 Minimum charge \$244.00/year
 All units \$ 6.45/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$459.60
Sewer	\$774.00
Combined	\$1,233.60
% change from 2008	0.0%

Annual Cost Actual Community Usage (68.6 HCF = DEP Data Provided by Community)	
Water	\$262.74
Sewer	\$441.10
Combined	\$703.84

Commercial Water Rates:

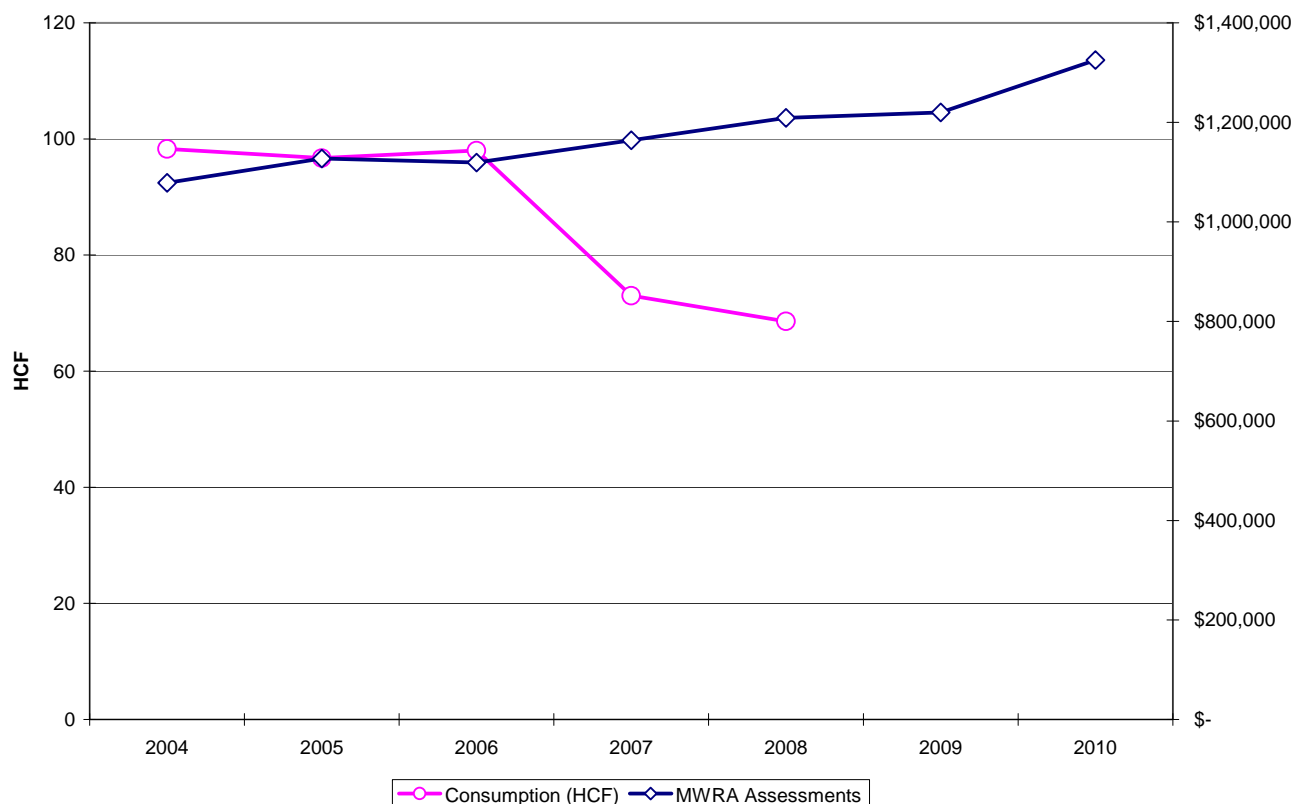
All units \$3.99/HCF

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 2009
 Next adjustment scheduled: July 2010
 Fund: Special Revenue

First 3 HCF \$15.00
 >3 HCF \$ 2.60/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: October 2009
 Next adjustment scheduled: October 2010
 Fund: Special Revenue

First 3 HCF \$14.00
 >3 HCF \$ 2.60/HCF

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$340.80
Sewer	\$336.80
Combined	\$677.60
% change from 2008	22.4%

Annual Cost Actual Community Usage (69.5 HCF = DEP Data Provided by Community)	
Water	\$209.50
Sewer	\$205.50
Combined	\$415.00

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: October 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise
 0 – 40 HCF \$2.91/HCF
 >40 – 80 HCF \$4.37 "
 >80 HCF \$5.75 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: October 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise
 0 – 40 HCF \$ 5.73/HCF
 >40 – 80 HCF \$ 9.36 "
 >80 HCF \$14.87 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$407.60
Sewer	\$832.80
Combined	\$1,240.40
% change from 2008	-3.8%

Annual Cost Actual Community Usage (99.3 HCF = DEP Data Provided by Community)	
Water	\$317.14
Sewer	\$639.05
Combined	\$956.19

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 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 27.4 HCF	\$3.22/HCF
>27.4 – 73.05 HCF	\$3.31 "
>73.05 – 2,812.45 HCF	\$3.35 "
>2,812.45 HCF	\$3.40 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 27.4 HCF	\$5.91/HCF
>27.4 – 73.05 HCF	\$6.12 "
>73.05 – 2,812.45 HCF	\$6.18 "
>2,812.45 HCF	\$6.23 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$386.40
Sewer	\$709.20
Combined	\$1,095.60
% change from 2008	2.5%

Annual Cost Actual Community Usage (74.0 HCF = DEP Data Provided by Community)	
Water	\$244.18
Sewer	\$426.34
Combined	\$670.52

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 2008 data.
 Please see Introduction for more detail.**

Lynnfield – Lynnfield Water District (W)

Residential Water Rates:

Last adjusted: April 10, 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

Residential Sewer Rates:

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

Community not sewered.

Commercial: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$354.80
Sewer	Not sewered
Combined	\$354.80
% change from 2008	0.0%

Annual Cost Actual Community Usage (114.4 HCF = DEP Data Provided by Community)	
Water	\$339.85
Sewer	Not sewered
Combined	\$339.85

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: October 2009
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Minimum charge (5/8" meter)
 includes 0 – 2 HCF: \$5.00/month
 >2 – 8 HCF: \$3.25/HCF
 >8 – 120 HCF: \$6.31 "
 >120 HCF: \$8.01 "

Billing Frequency: Monthly

Residential Sewer Rates:

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

Minimum charge (5/8" meter)
 includes 0 – 2 HCF: \$3.00/month
 >2 – 8 HCF: \$4.43/HCF
 >8 – 120 HCF: \$7.74 "
 >120 HCF: \$8.66 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$445.44
Sewer	\$540.72
Combined	\$986.16
% change from 2008	1.6%

Annual Cost Actual Community Usage (74.8 HCF = DEP Data Provided by Community)	
Water	\$225.10
Sewer	\$261.04
Combined	\$486.14

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 2008 data.
 Please see Introduction for more detail.**

Marblehead (W)

Residential Water Rates:

Last adjusted: July 2008
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Administrative Charge \$13.00/bill
 0 – 30 HCF \$ 3.65/HCF
 >30 HCF \$ 3.95 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2008
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Administrative Charge \$9.00/bill
 0 – 30 HCF \$5.70/HCF
 >30 HCF \$6.00 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$490.00
Sewer	\$720.00
Combined	\$1,210.00
% change from 2008	3.4%

Annual Cost Actual Community Usage (81.2 HCF = DEP Data Provided by Community)	
Water	\$348.38
Sewer	\$498.84
Combined	\$847.22

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: November 2008
 Next adjustment scheduled: No answer
 Fund: General
 All units \$5.08/HCF

Residential Sewer Rates:

Last adjusted: November 2008
 Next adjustment scheduled: No answer
 Fund: General
 All units \$3.41/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	\$409.20
Combined	\$1,018.80
% change from 2008	0.0%

Annual Cost Actual Community Usage (77.4 HCF = DEP Data Provided by Community)	
Water	\$393.19
Sewer	\$263.93
Combined	\$657.13

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 2008 data.
 Please see Introduction for more detail.**

Medford (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: Unknown
 Fund: Enterprise
 All units \$5.31/HCF
 Billing Frequency: Bi-monthly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: Unknown
 Fund: Enterprise
 All units \$7.44/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$637.20
Sewer	\$892.80
Combined	\$1,530.00
% change from 2008	0.0%

Annual Cost Actual Community Usage (68.4 HCF = DEP Data Provided by Community)	
Water	\$363.20
Sewer	\$508.90
Combined	\$872.10

Commercial Water Rates:

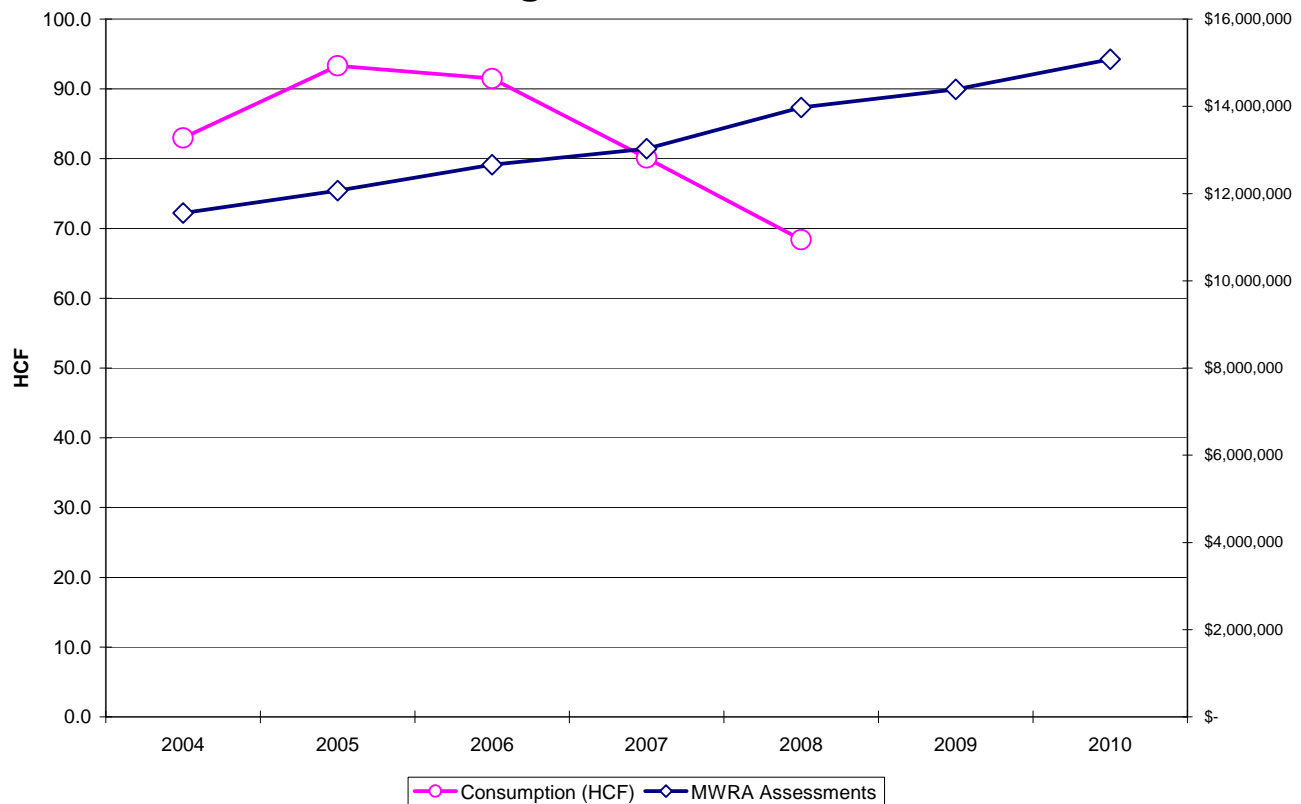
Same as residential

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 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$4.91/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$8.97/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	\$589.20
Sewer	\$968.76
Combined	\$1,557.96
% change from 2008	6.1%

Annual Cost Actual Community Usage (66.3 HCF = DEP Data Provided by Community)	
Water	\$325.53
Sewer	\$594.71
Combined	\$920.24

Commercial Water Rates:

All units \$6.03/HCF

Commercial Sewer Rates:

All units \$8.97/HCF

Senior and/or Low Income Discounts: 20% discount on water and sewer.

Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2008 data.
 Please see Introduction for more detail.**

Milton (W/S)

Residential Water Rates:

Last adjusted: August 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge includes

0 – 6 HCF \$24.18/bill
 >6 – 30 HCF \$ 4.88/HCF
 >30 – 60 HCF \$ 5.38 "
 >60 HCF \$ 5.75 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: August 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge includes

0 – 6 HCF \$31.26/bill
 >6 – 30 HCF \$ 9.83/HCF
 >30 – 60 HCF \$10.84 "
 >60 HCF \$11.55 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$565.20
Sewer	\$1,068.72
Combined	\$1,633.92
% change from 2008	2.9%

Annual Cost Actual Community Usage (96.2 HCF = DEP Data Provided by Community)	
Water	\$449.06
Sewer	\$835.95
Combined	\$1,285.00

Commercial Water Rates:

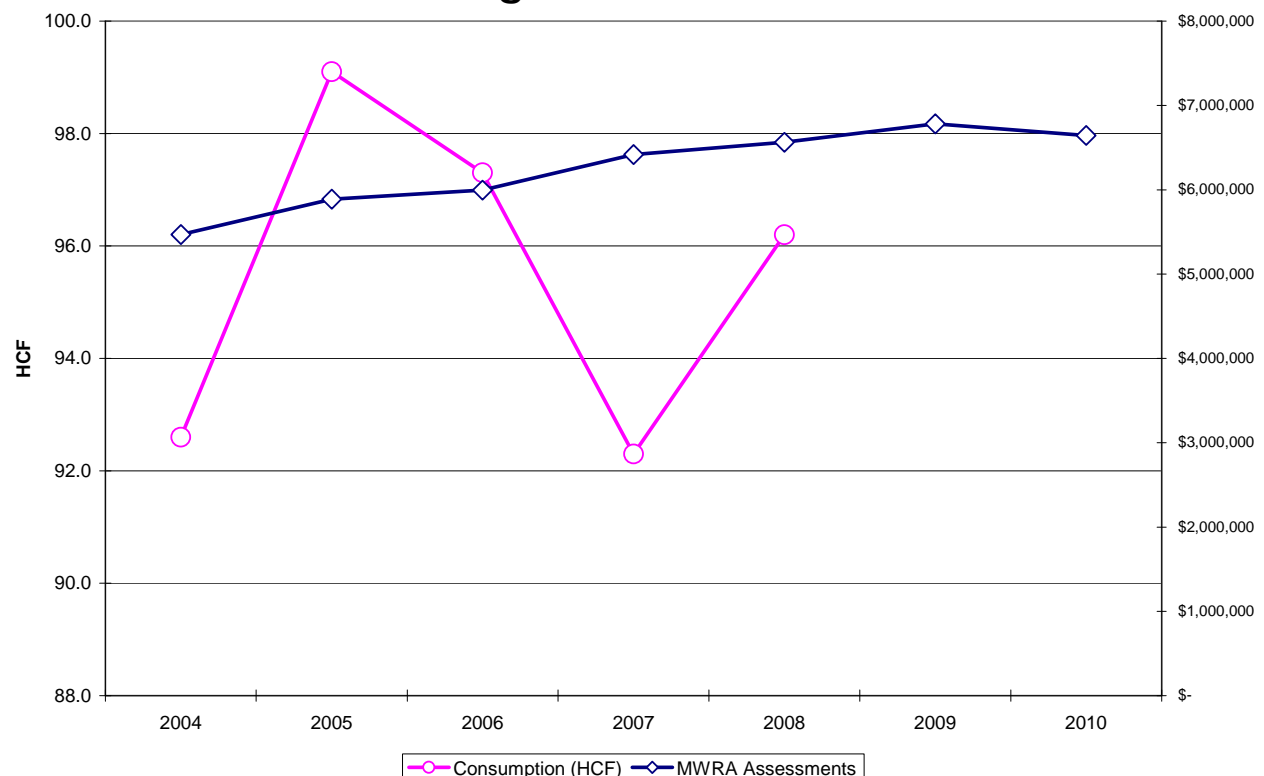
Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Actual Water Usage versus MWRA Assessments



Nahant (W)

Residential Water Rates:

Last adjusted: No answer
 Next adjustment scheduled: No answer
 Fund: Enterprise
 All units \$6.29/HCF
 Billing Frequency: Tri-Annually

Residential Sewer Rates:

Last adjusted: No answer
 Next adjustment scheduled: No answer
 Fund: Enterprise
 All units \$7.51/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$754.80
Sewer	\$901.20
Combined	\$1,656.00
% change from 2008	3.8%

Annual Cost Actual Community Usage (93.9 HCF = DEP Data Provided by Community)	
Water	\$590.63
Sewer	\$705.19
Combined	\$1,295.82

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: September 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Administrative Fee \$5.00/bill
 0 – 10 HCF \$1.53/HCF
 >10 – 20 HCF \$2.32 "
 >20 – 40 HCF \$3.46 "
 >40 HCF \$5.33 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: September 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Administrative Fee \$5.00/bill
 0 – 10 HCF \$4.11/HCF
 >10 – 20 HCF \$7.35 "
 >20HCF \$12.15 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$312.40
Sewer	\$821.10
Combined	\$1,133.50
% change from 2008	6.1%

Annual Cost Actual Community Usage (77.6 HCF = DEP Data Provided by Community)	
Water	\$168.43
Sewer	\$460.76
Combined	\$629.19

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 1, 2007
 Next adjustment scheduled: No answer
 Fund: Enterprise

Basic Service Fee: \$15.00
 1 – 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 1, 2007
 Next adjustment scheduled: No answer
 Fund: Enterprise

1 – 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	\$423.00
Sewer	\$997.80
Combined	\$1,420.80
% change from 2008	0.0%

Annual Cost Actual Community Usage (96.7 HCF = DEP Data Provided by Community)	
Water	\$392.63
Sewer	\$855.48
Combined	\$1,248.11

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 2008 data.
 Please see Introduction for more detail.**

Newton (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 - 20 HCF \$4.35/HCF
 >20 - 70 HCF \$5.22 "
 >70 HCF \$6.26 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 - 20 HCF \$6.81/HCF
 >20 - 70 HCF \$8.17 "
 >70 HCF \$9.80 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$556.80
Sewer	\$871.60
Combined	\$1,428.40
% change from 2008	12.0%

Annual Cost Actual Community Usage (73.5 HCF = DEP Data Provided by Community)	
Water	\$319.73
Sewer	\$500.54
Combined	\$820.26

Commercial Water Rates:

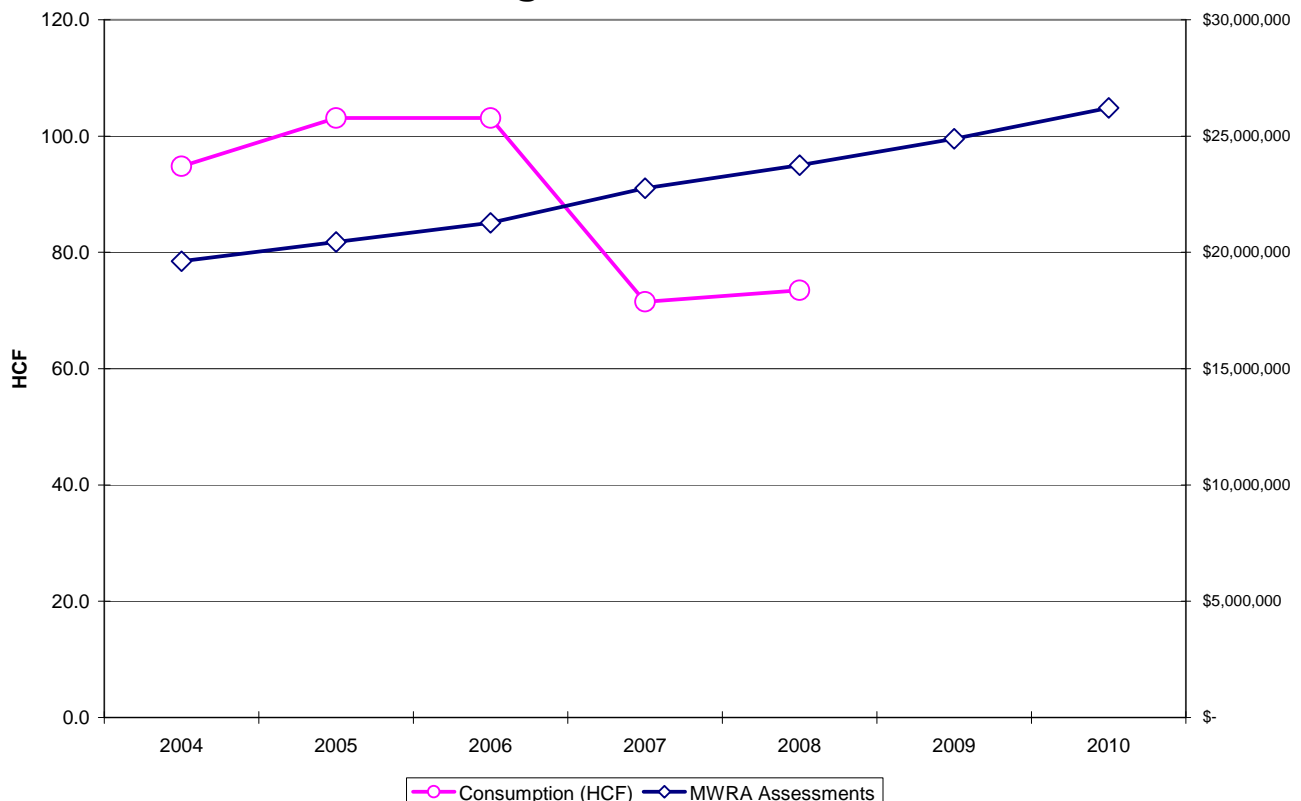
Same as residential

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: April 2009
 Next adjustment scheduled: April 2010
 Fund: Enterprise

Administration Fee \$25.00
 0 – 20 HCF \$ 3.221/HCF
 >20 – 60 HCF \$ 3.860 "
 >60 HCF \$ 4.757 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: April 2009
 Next adjustment scheduled: April 2010
 Fund: Enterprise

0 – 20 HCF \$4.339/HCF
 >20 – 60 HCF \$4.501 "
 >60 HCF \$4.703 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$487.64
Sewer	\$533.64
Combined	\$1,021.28
% change from 2008	7.3%

Annual Cost Actual Community Usage (59.8 HCF = DEP Data Provided by Community)	
Water	\$255.27
Sewer	\$262.68
Combined	\$517.95

Commercial Water Rates:

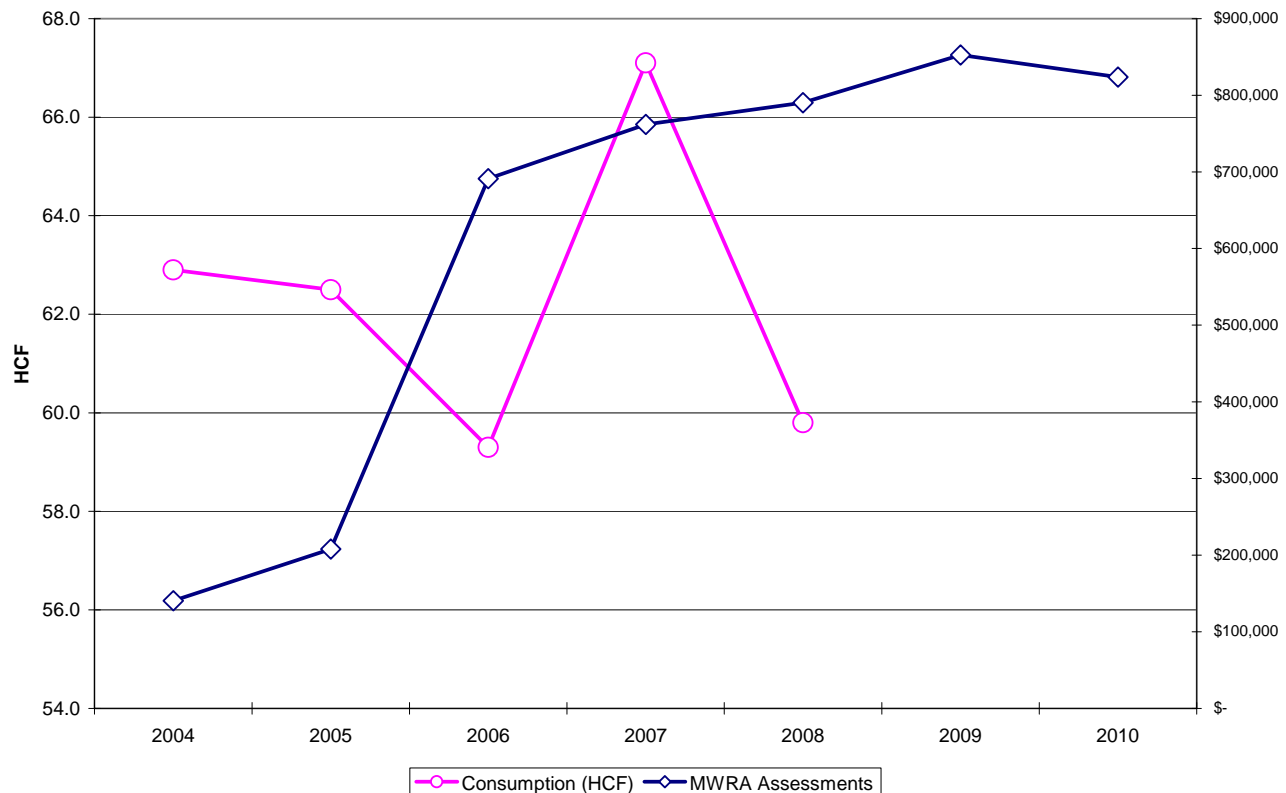
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Norwood (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: General

Meter charge (5/8") \$2.66
 0 – 5 HCF \$3.03/HCF
 >5 HCF \$4.48 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: General

0 – 3 HCF \$ 5.95/HCF
 >3 HCF \$11.48 "
 Based on 60% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$482.52
Sewer	\$707.11
Combined	\$1,189.63
% change from 2008	5.1%

Annual Cost Actual Community Usage (66.8 HCF = DEP Data Provided by Community)	
Water	\$244.18
Sewer	\$340.66
Combined	\$584.85

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: No answer
 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: No answer
 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 2008	0.0%

Annual Cost Actual Community Usage (86.7 HCF = DEP Data Provided by Community)	
Water	\$217.42
Sewer	\$290.59
Combined	\$508.01

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 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$4.52/HCF
 Billing Frequency: Residential: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$10.69/HCF
 Based on 70% of water usage.
 Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$542.40
Sewer	\$897.96
Combined	\$1,440.36
% change from 2008	7.7%

Annual Cost Actual Community Usage (70.1 HCF = DEP Data Provided by Community)	
Water	\$316.85
Sewer	\$749.37
Combined	\$1,066.22

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 (\$)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 Base charge: \$15.00/bill
 All units \$ 3.05/HCF

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 Base charge: \$15.00/bill
 0 – 50 CF \$ 5.08/HCF
 >50 CF \$ 8.32 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$396.00
Sewer	\$704.40
Combined	\$1,100.40
% change from 2008	6.8%

Annual Cost Actual Community Usage (71.2 HCF = DEP Data Provided by Community)	
Water	\$247.16
Sewer	\$391.70
Combined	\$638.86

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: \$15.00 per bill (senior discount)

Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2008 data.
 Please see Introduction for more detail.**

Reading (W/S)

Residential Water Rates:

Last adjusted: September 2009
 Next adjustment scheduled: September 2010
 Fund: Enterprise

Minimum bill: \$15.46
 All units \$ 7.73/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: September 2009
 Next adjustment scheduled: September 2010
 Fund: Enterprise

Minimum bill: \$16.04
 All units \$ 8.02/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$927.60
Sewer	\$962.40
Combined	\$1,890.00
% change from 2008	3.3%

Annual Cost Actual Community Usage (66.9 HCF = DEP Data Provided by Community)	
Water	\$517.14
Sewer	\$536.54
Combined	\$1,053.68

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 \$9.22/quarter.

Revere (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

All units \$2.81/HCF

Billing Frequency: Residential: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

All units \$8.78/HCF

Based on 100% of water usage.
 Commercial: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$337.20
Sewer	\$1,053.60
Combined	\$1,390.80
% change from 2008	7.8%

Annual Cost Actual Community Usage (57.3 HCF = DEP Data Provided by Community)	
Water	\$161.01
Sewer	\$503.09
Combined	\$664.11

Commercial Water Rates:

All units: \$3.99/HCF

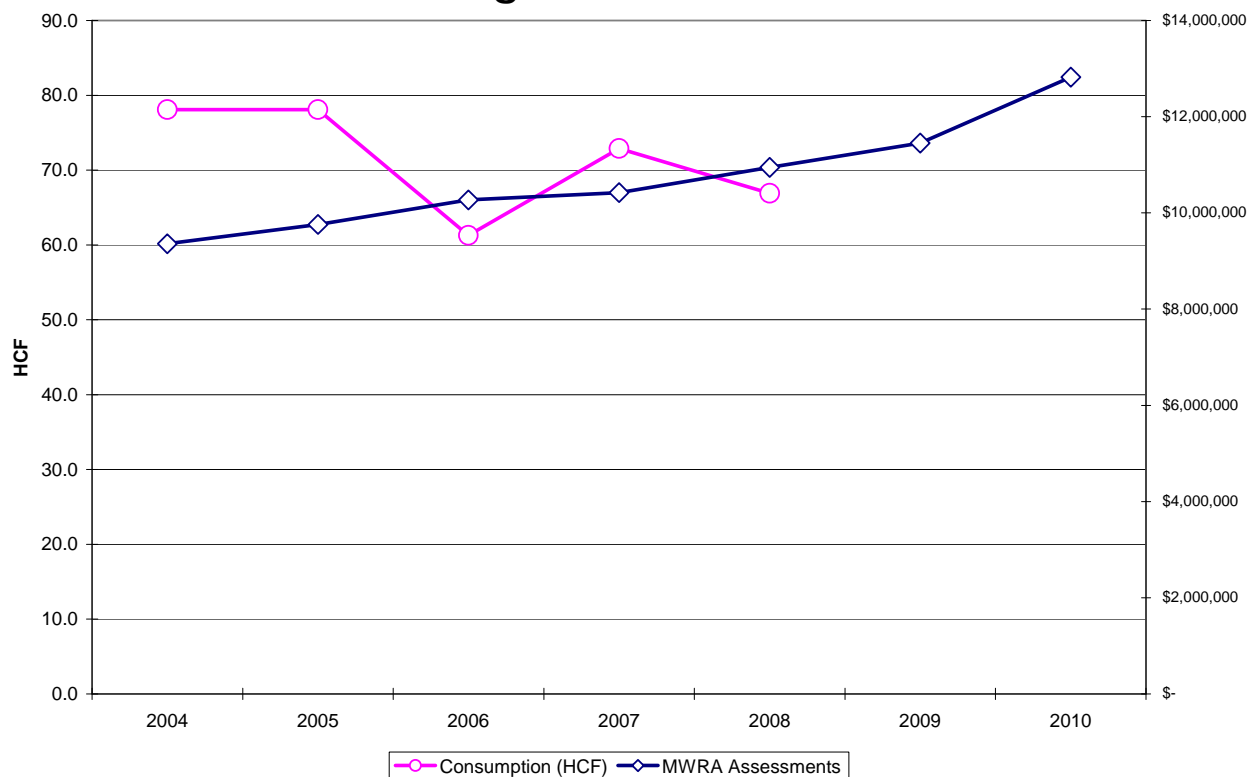
Commercial Sewer Rates:

All units: \$12.04/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 2008 data.
 Please see Introduction for more detail.**

Saugus (W)

Residential Water Rates:

Last adjusted: July 2007
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum Charge (20 HCF)	\$60.00
>20 – 30 HCF	\$ 3.10/HCF
>30 – 60 HCF	\$ 4.15 "
>60 – 100 HCF	\$ 5.20 "
>100 – 200 HCF	\$ 5.80 "
>200 – 500 HCF	\$ 6.50 "
>500 – 1,000 HCF	\$ 7.00 "
>1,000 HCF	\$ 7.20 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: November 2007
 Next adjustment scheduled: July 2010
 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	\$431.00
Sewer	\$344.00
Combined	\$775.00
% change from 2008	0.0%

Annual Cost Actual Community Usage (85.3 HCF = DEP Data Provided by Community)	
Water	\$287.00
Sewer	\$239.90
Combined	\$526.90

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: 10% of minimum charge (water only)

Actual Water Usage versus MWRA Assessments



Somerville (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 13 HCF	\$3.21/HCF
>13 – 67 HCF	\$4.63 "
>67 – 133 HCF	\$4.85 "
>133 HCF	\$5.03 "

Billing Frequency: Residential: Tri-Annually

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 13 HCF	\$5.77/HCF
>13 – 67 HCF	\$7.37 "
>67 – 133 HCF	\$7.73 "
>133 HCF	\$8.00 "

Based on 100% of water usage.

Commercial: Bi-Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$500.22
Sewer	\$822.00
Combined	\$1,322.22
% change from 2008	5.2%

Annual Cost Actual Community Usage (81.1 HCF = DEP Data Provided by Community)	
Water	\$320.11
Sewer	\$535.31
Combined	\$855.42

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 2008 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: 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	\$403.00
Sewer	Not Sewered
Combined	\$403.00
% change from 2008	9.5%

Annual Cost Actual Community Usage (95.9 HCF = DEP Data Provided by Community)	
Water	\$296.19
Sewer	Not Sewered
Combined	\$296.19

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: No answer
 Fund: Special Revenue

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

>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 2008	0.0%

Annual Cost Actual Community Usage (110.3 HCF = DEP Data Provided by Community)	
Water	\$371.52
Sewer	Not Sewered
Combined	\$371.52

Commercial Water Rates:

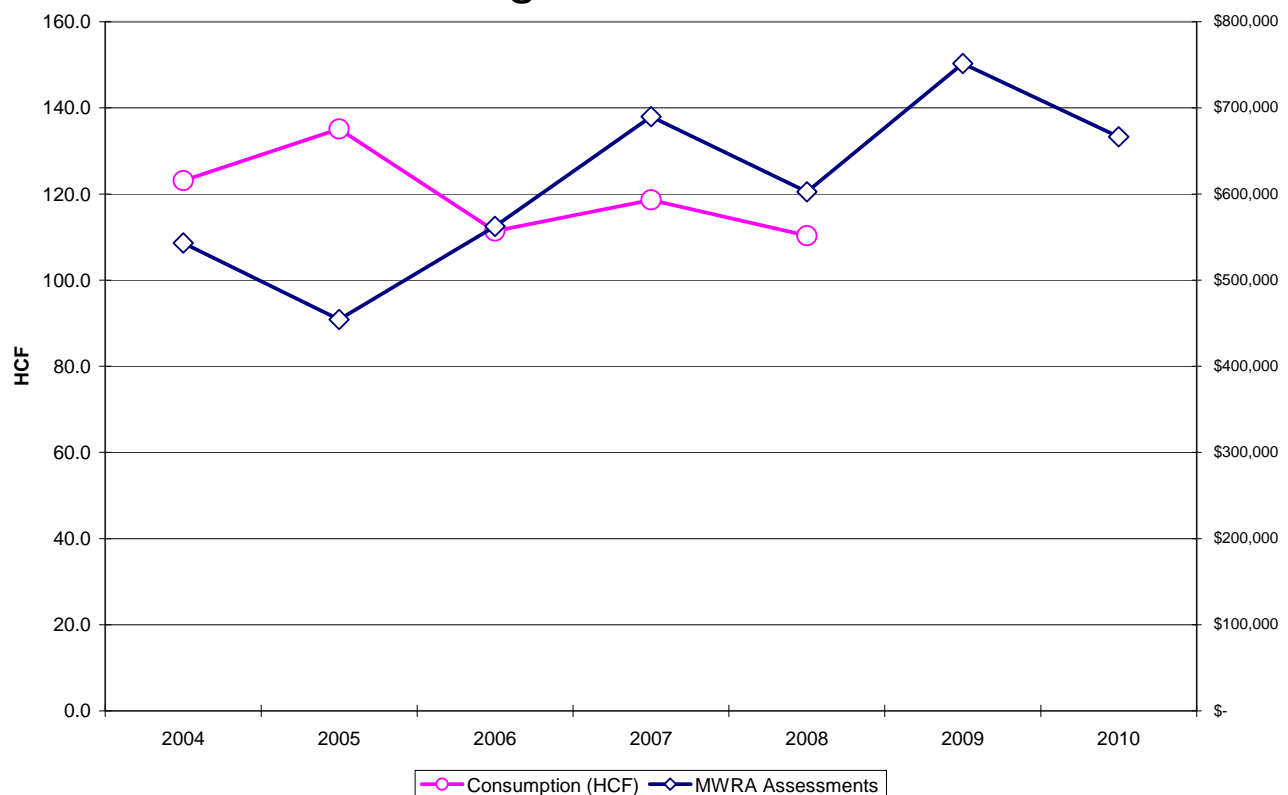
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Stoneham (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$4.30/HFC
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$8.30/HFC
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$516.00
Sewer	\$996.00
Combined	\$1,512.00
% change from 2008	5.0%

Annual Cost Actual Community Usage (73.7 HCF = DEP Data Provided by Community)	
Water	\$316.91
Sewer	\$611.71
Combined	\$928.62

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: August 2008
 Next adjustment scheduled: No answer
 Fund: Enterprise
 Service Charge (5/8" meter) \$9.86/bill
 0 – 26 HCF \$3.16/HCF
 >26 – 59 HCF \$4.67 "
 >59 HCF \$6.48 "

Residential Sewer Rates:

Last adjusted: August 2008
 Next adjustment scheduled: No answer
 Fund: Enterprise
 Minimum charge (7.8 HCF) \$58.19
 All units \$ 7.46/HFC
 Based on 100% of water usage.

Customers with private wells pay a flat charge per billing period of: \$149.28 per condominium, \$223.91 per private home.

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$442.80
Sewer	\$895.20
Combined	\$1,338.00
% change from 2008	0.0%

Annual Cost Actual Community Usage (69.1 HCF = DEP Data Provided by Community)	
Water	\$257.80
Sewer	\$515.49
Combined	\$773.28

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 2008 data.
 Please see Introduction for more detail.**

Swampscott (W)

Residential Water Rates:

Last adjusted: August 2009
 Next adjustment scheduled: August 2010
 Fund: Enterprise

Base Charge 11.00/bill
 All units \$6.02/HFC

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: August 2009
 Next adjustment scheduled: August 2010
 Fund: Enterprise

Base Charge 8.75/bill
 All units \$4.82/HFC
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$766.40
Sewer	\$613.40
Combined	\$1,379.80
% change from 2008	12.4%

Annual Cost Actual Community Usage (94.4 HCF = DEP Data Provided by Community)	
Water	\$612.29
Sewer	\$490.01
Combined	\$1,102.30

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 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$4.75/HCF
 Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise
 All units \$9.23/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$513.00
Sewer	\$996.84
Combined	\$1,509.84
% change from 2008	10.3%

Annual Cost Actual Community Usage (74.7 HCF = DEP Data Provided by Community)	
Water	\$319.34
Sewer	\$620.53
Combined	\$939.88

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 \$570.00 for water and \$1,107.60 for sewer.

Walpole (S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Special Revenue
 All units \$4.447/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Special Revenue
 All units \$7.517/HCF

Based on 80% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$533.64
Sewer	\$721.63
Combined	\$1,255.27
% change from 2008	7.0%

Annual Cost Actual Community Usage (100.2 HCF = DEP Data Provided by Community)	
Water	\$445.59
Sewer	\$602.56
Combined	\$1,048.15

Commercial Water Rates:

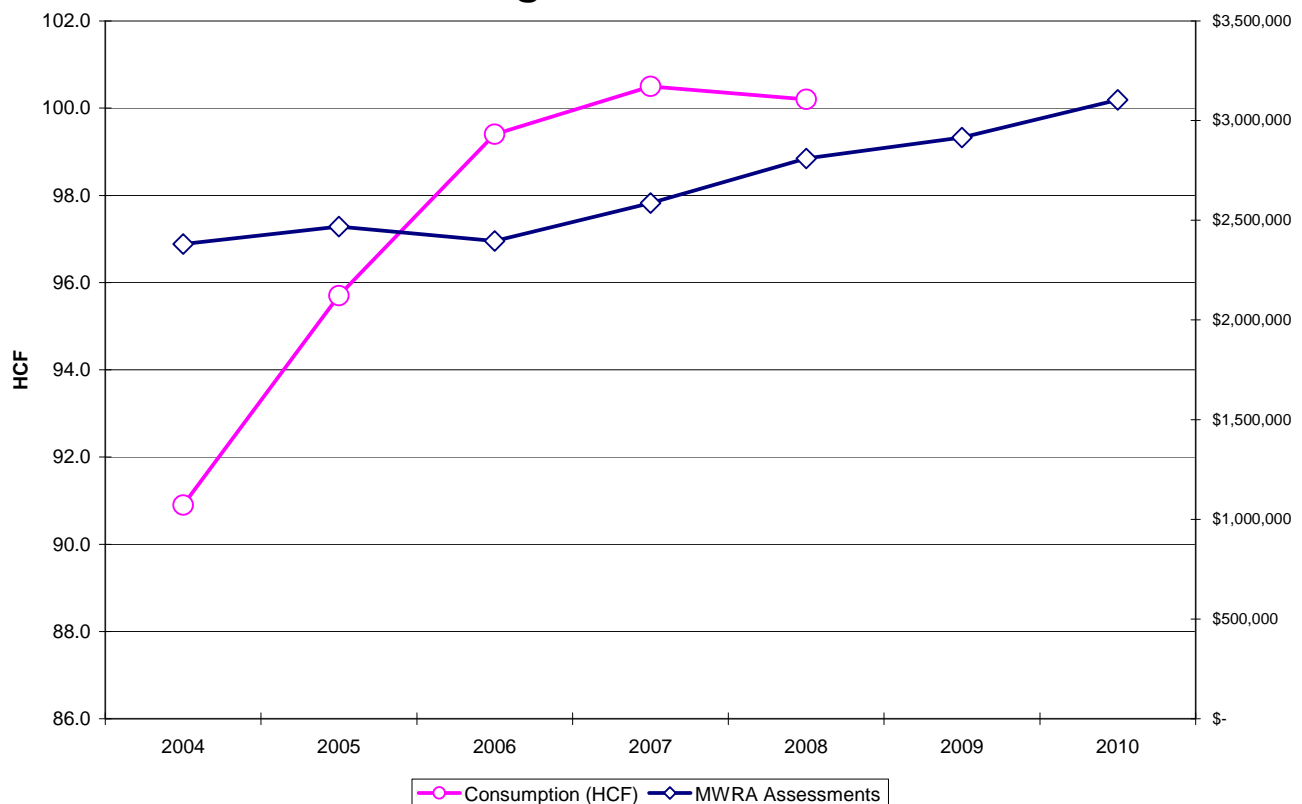
Same as residential

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

Same as residential

Actual Water Usage versus MWRA Assessments



Waltham (W/S)

Residential Water Rates:

Last adjusted: January 2008
 Next adjustment scheduled: January 2010
 Fund: Enterprise

0 – 21 HCF \$2.78/HCF
 >21 – 45 HCF \$3.42 "
 >45 – 120 HCF \$4.82 "
 >120 HCF \$6.45 "

Billing Frequency: Residential: Quarterly, Commercial: Monthly

Residential Sewer Rates:

Last adjusted: January 2008
 Next adjustment scheduled: January 2010
 Fund: Enterprise

0 – 21 HCF \$5.02/HCF
 >21 – 45 HCF \$6.14 "
 >45 – 120 HCF \$7.78 "
 >120 HCF \$9.24 "

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$356.64
Sewer	\$642.72
Combined	\$999.36
% change from 2008	0.0%

Annual Cost Actual Community Usage (83.8 HCF = DEP Data Provided by Community)	
Water	\$232.96
Sewer	\$420.68
Combined	\$653.64

Commercial Water Rates:

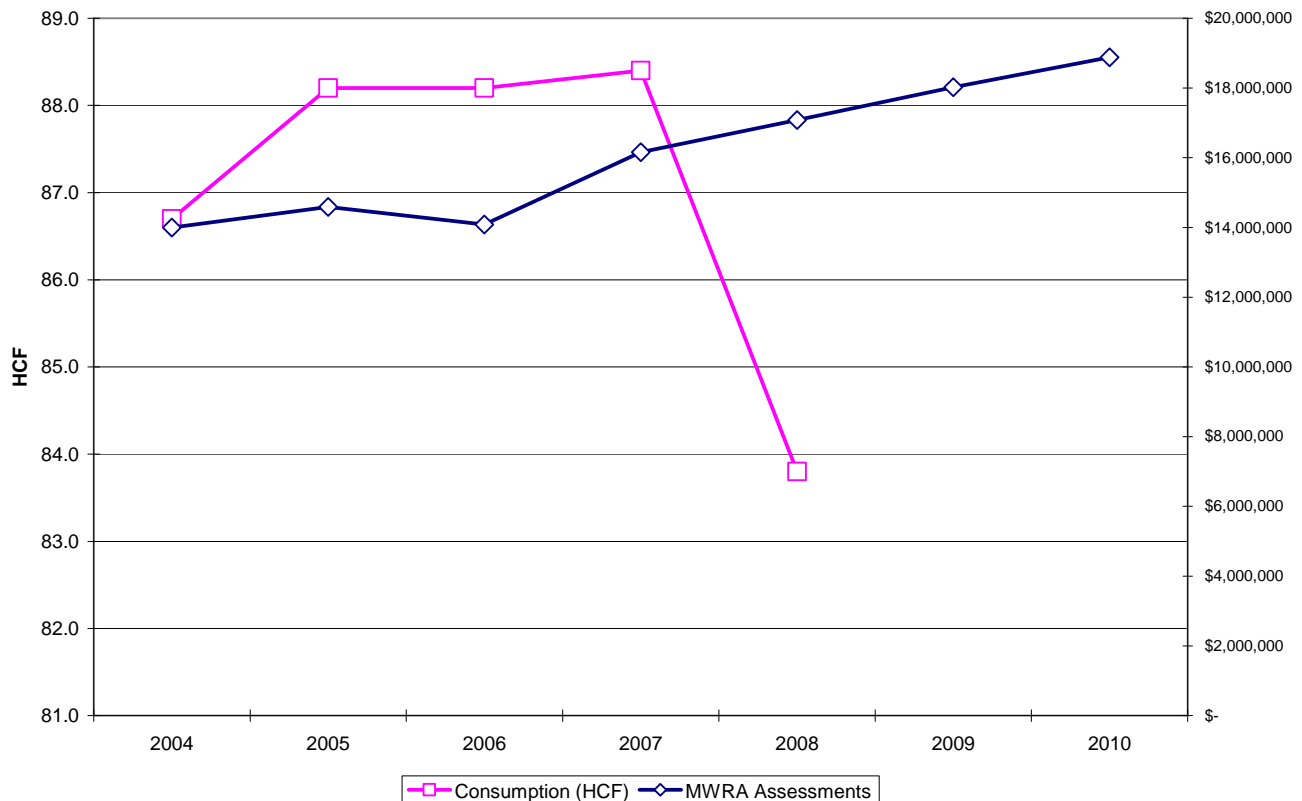
Same as residential

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 2008 data.
 Please see Introduction for more detail.**

Watertown (W/S)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge (5/8") \$5.27/bill
 0 – 30 HCF \$3.43/HCF
 >30 – 300 HCF \$5.35 "
 >300 HCF \$8.44 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 30 HCF \$6.97/HCF
 >30 – 300 HCF \$9.00 "
 >300 HCF \$12.08 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$432.68
Sewer	\$836.40
Combined	\$1,269.08
% change from 2008	6.0%

Annual Cost Actual Community Usage (72.0 HCF = DEP Data Provided by Community)	
Water	\$268.04
Sewer	\$501.84
Combined	\$769.88

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 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise

Base charge \$4.64/bill
 All units (except for peak use) \$2.90/HCF
 Peak Use Charges (May – October):
 >12 – 24 HCF \$5.41 "
 >24 – 36 HCF \$7.00 "
 >36 HCF \$8.91 "

Residential Sewer Rates:

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

Base charge \$1.50/bill
 All units \$6.85/HCF
 Based on 100% of water usage.

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$403.68
Sewer	\$840.00
Combined	\$1,243.68
% change from 2008	8.7%

Annual Cost Actual Community Usage (103.2 HCF = DEP Data Provided by Community)	
Water	\$354.96
Sewer	\$724.92
Combined	\$1,079.88

Commercial Water Rates:

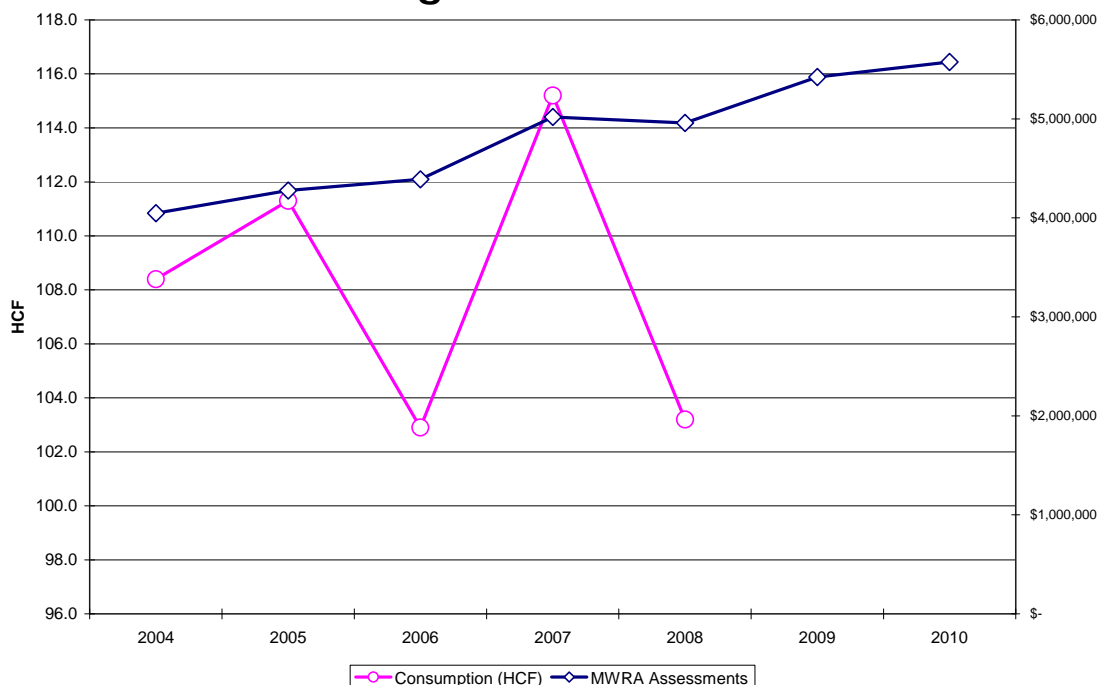
"Readiness to serve" charge on water meters in excess of $\frac{5}{8}$ ". Consumption charges same as residential

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 2008 data.
 Please see Introduction for more detail.**

Weston (W)

Residential Water Rates:

Last adjusted: February 2009
 Next adjustment scheduled: February 2010
 Fund: Enterprise

Base charge (5/8" meter) \$21.00/bill
 1 – 50 HCF \$ 1.23 "
 >50 HCF \$ 3.63 "

Billing Frequency: Semi-Annually

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	\$244.20
Sewer	Not Sewered
Combined	\$244.20
% change from 2008	4.1%

Annual Cost Actual Community Usage (155.9 HCF = DEP Data Provided by Community)	
Water	\$386.36
Sewer	Not Sewered
Combined	\$386.36

Commercial Water Rates:

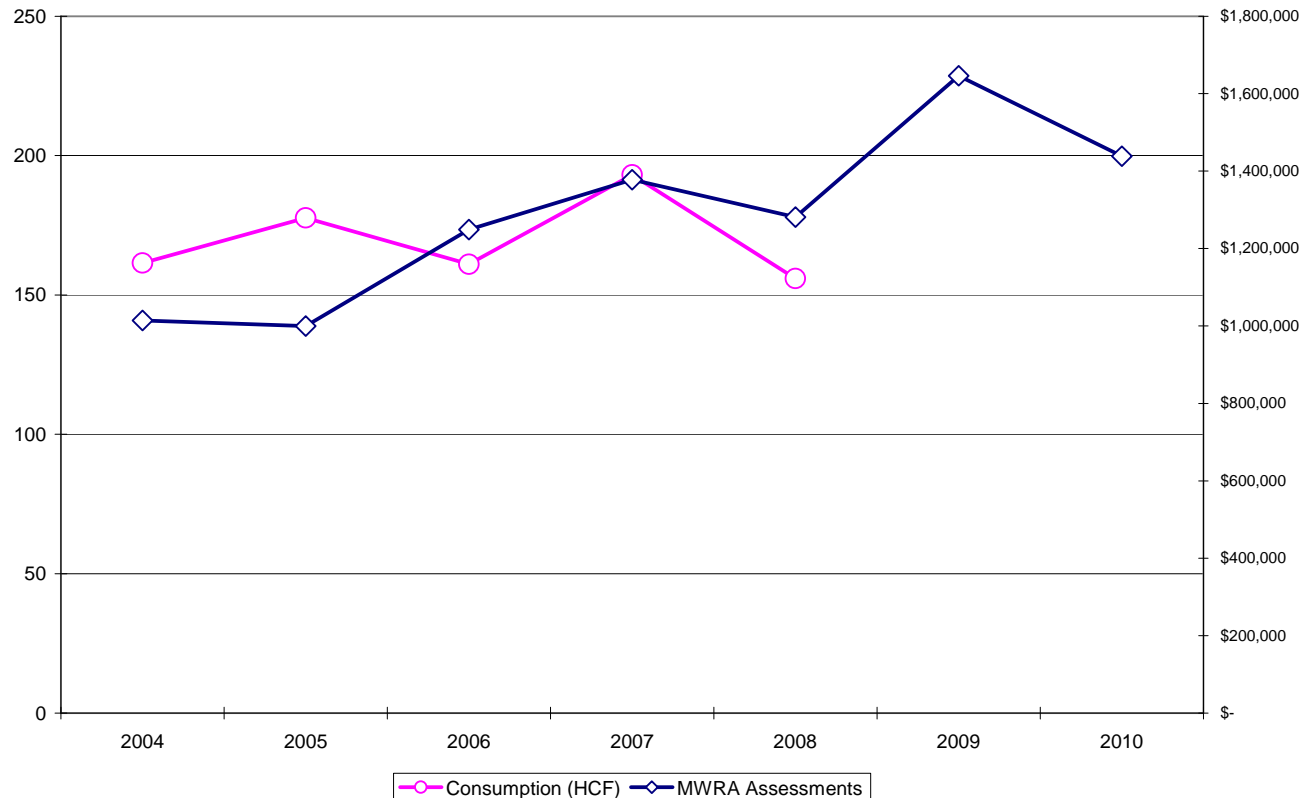
Same as residential

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

Not sewered

Actual Water Usage versus MWRA Assessments



Westwood (S)

Residential Water Rates:

Last adjusted: March 2009
 Next adjustment scheduled: Undetermined
 Fund: Enterprise

Minimum charge (5/8" meter)
 includes first 5 HCF \$29.61/quarter
 >5 – 51 HCF \$ 4.09/HCF
 >52 – 75 HCF \$ 6.77 "
 >75 HCF \$ 8.77 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: September 2009
 Next adjustment scheduled: September 2010
 Fund: Enterprise

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

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$527.44
Sewer	\$748.00
Combined	\$1,275.44
% change from 2008	-0.8%

Annual Cost Actual Community Usage (86.2 HCF = DEP Data Provided by Community)	
Water	\$389.20
Sewer	\$410.86
Combined	\$800.06

Commercial Water Rates:

Minimum charge (5/8" meter)
 includes first 9 HCF \$51.69
 All units in excess of allowance \$ 4.09/HCF

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: Minimum residential rate: \$29.61

Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2008 data.
 Please see Introduction for more detail.**

Weymouth (\$)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge (5/8" meter) \$11.40/bill
 0 – 27 HCF \$ 4.25/HCF
 >27 HCF \$ 7.12 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2007
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge (5/8" meter) \$ 4.70/bill
 0 – 27 HCF \$ 6.29/HCF
 >27 HCF \$10.79 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$590.04
Sewer	\$827.60
Combined	\$1,417.64
% change from 2008	7.5%

Annual Cost Actual Community Usage (63.0 HCF = DEP Data Provided by Community)	
Water	\$313.35
Sewer	\$415.07
Combined	\$728.42

Commercial Water Rates:

Base charge \$7.50/bill
 0 – 9 HCF \$4.25/HCF
 >9 HCF \$7.12 "

Commercial Sewer Rates:

Base charge \$ 7.66/bill
 0 – 9 HCF \$ 6.29/HCF
 >9 HCF \$10.79 "

Senior and/or Low Income Discounts: \$40/year for water

Actual Water Usage versus MWRA Assessments



Wilbraham (W)

Residential Water Rates:

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

Minimum bill \$43.50
 0 – 100 HCF \$ 2.90/HCF
 >100 – 200 HCF \$ 3.10 "
 >200 HCF \$ 3.30 "

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	\$348.00
Sewer	\$492.00
Combined	\$840.00
% change from 2008	13.8%

Annual Cost Actual Community Usage (76.1 HCF = DEP Data Provided by Community)	
Water	\$220.69
Sewer	\$312.01
Combined	\$532.70

Commercial Water Rates:

All units \$2.90/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: July 2010
 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: September 2008
 Next adjustment scheduled: July 2010
 Fund: General

All units \$4.80/HCF

Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$449.60
Sewer	\$576.00
Combined	\$1,025.60
% change from 2008	7.5%

Annual Cost Actual Community Usage (79.9 HCF = DEP Data Provided by Community)	
Water	\$275.24
Sewer	\$383.52
Combined	\$658.76

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 \$5.74/HCF

Actual Water Usage versus MWRA Assessments



Winchester (S/ partial W)

Residential Water Rates:

Last adjusted: November 2006
 Next adjustment scheduled: No answer
 Fund: Enterprise
 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: No answer
 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	\$255.60
Sewer	\$313.20
Combined	\$568.80
% change from 2008	0.0%

Annual Cost Actual Community Usage (90.3 HCF = DEP Data Provided by Community)	
Water	\$165.31
Sewer	\$195.29
Combined	\$360.60

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 \$18.75/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 \$31.25/quarter
 All units \$ 8.32/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$598.80
Sewer	\$998.40
Combined	\$1,597.20
% change from 2008	10.3%

Annual Cost Actual Community Usage (63.1 HCF = DEP Data Provided by Community)	
Water	\$314.87
Sewer	\$524.99
Combined	\$839.86

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



Woburn (S/ partial W)

Residential Water Rates:

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

Flat rate of \$117.50 per bill

Residential Sewer Rates:

Last adjusted: January 2008
 Next adjustment scheduled: No answer
 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	\$235.00
Sewer	\$328.00
Combined	\$563.00
% change from 2008	9.5%

Annual Cost Actual Community Usage (121.0 HCF = DEP Data Provided by Community)	
Water	\$235.00
Sewer	\$328.00
Combined	\$563.00

Commercial Water Rates:

All units \$4.83/HCF

Commercial Sewer Rates:

All units 304% of water bill

Senior and/or Low Income Discounts: Water \$94.00, Sewer \$55.76

Actual Water Usage versus MWRA Assessments



**NOTE: Actual community usage based on Calendar Year 2008 data.
 Please see Introduction for more detail.**

Worcester (partial W)

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge \$4.50/quarter
 All units \$2.99/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge \$10.00/quarter
 All units \$ 4.61/HCF

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

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
Water	\$358.80
Sewer	\$442.56
Combined	\$801.36
% change from 2008	6.7%

Annual Cost Actual Community Usage (81.4 HCF = DEP Data Provided by Community)	
Water	\$243.39
Sewer	\$300.20
Combined	\$543.59

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

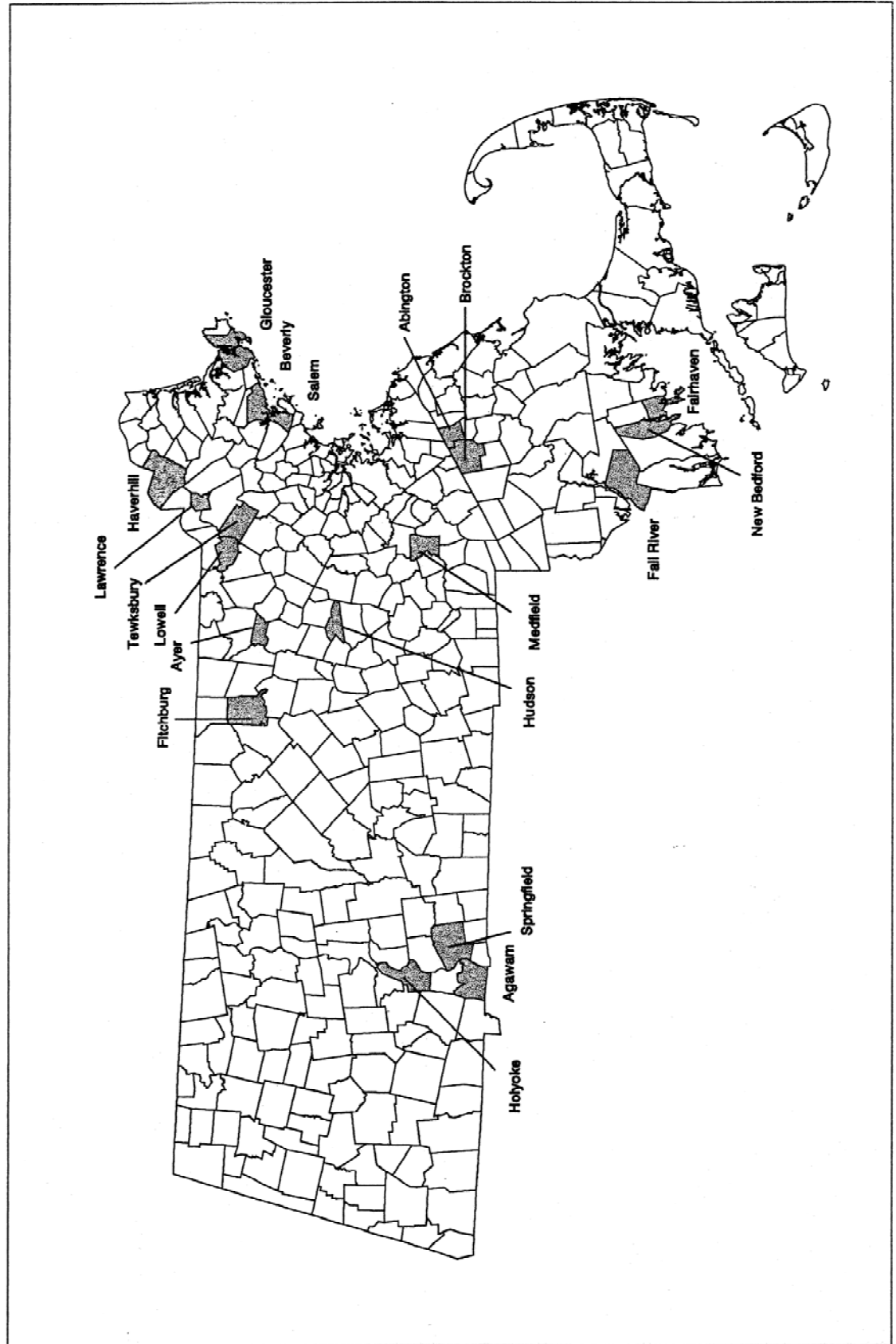
Same as residential (see note above)

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 2009 WATER AND SEWER CHARGES

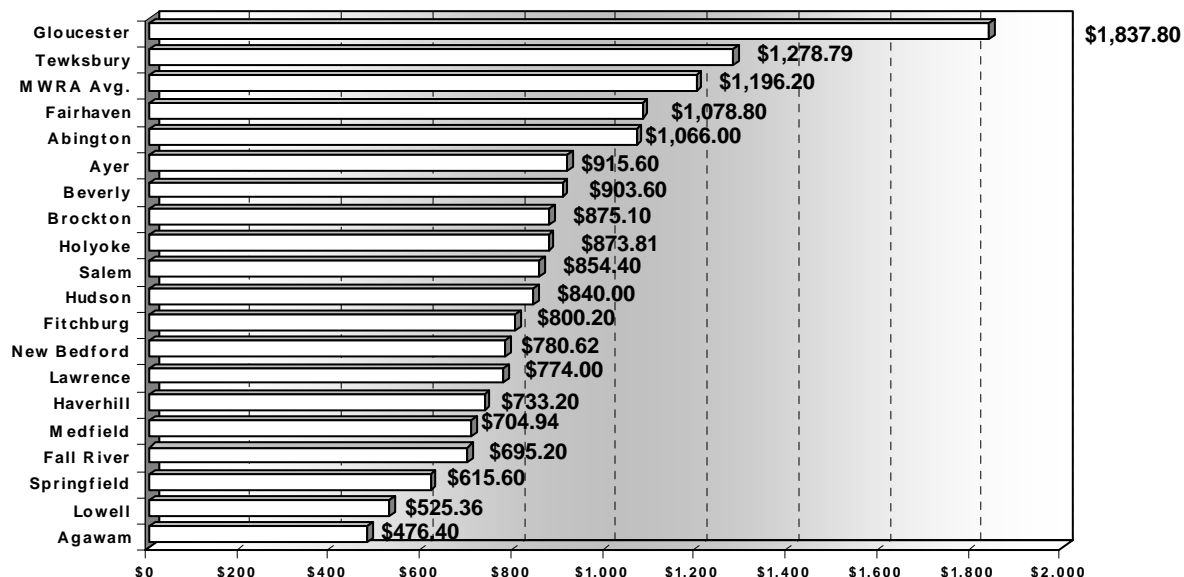


**COMPARATIVE ANNUAL RESIDENTIAL WATER AND SEWER CHARGES FOR
SELECTED NON-MWRA COMMUNITIES IN MASSACHUSETTS
2009**

	Water	Sewer	Combined	Percentage Change
Abington	\$426.00	\$640.00	\$1,066.00	20.3%
Agawam	217.20	259.20	476.40	2.6%
Ayer	252.00	663.60	915.60	4.0%
Beverly	306.00	597.60	903.60	3.9%
Brockton	443.40	431.70	875.10	13.8%
Fairhaven	388.80	690.00	1,078.80	0.0%
Fall River	250.40	444.80	695.20	0.0%
Fitchburg	346.00	454.20	800.20	6.7%
Gloucester	676.80	1,161.00	1,837.80	2.5%
Haverhill	304.80	428.40	733.20	1.7%
Holyoke	387.81	486.00	873.81	9.5%
Hudson	309.60	530.40	840.00	15.2%
Lawrence	372.00	402.00	774.00	8.4%
Lowell	200.40	324.96	525.36	6.5%
Medfield	239.34	465.60	704.94	3.0%
New Bedford	242.62	538.00	780.62	8.3%
Salem	272.40	582.00	854.40	4.7%
Springfield	272.40	343.20	615.60	10.1%
Tewksbury	553.97	724.82	1,278.79	4.1%

Water and sewer charges based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons).

**COMPARATIVE CHART OF RESIDENTIAL COMBINED
WATER AND SEWER CHARGES - 2009**



Abington

Residential Water Rates:

Last adjusted: July 2007
 Next adjustment scheduled: No answer
 Fund: Special Revenue

Base charge \$10.00/bill
 Meter program charge \$ 2.00"
 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	\$426.00
Sewer	\$640.00
Combined	\$1,066.00
% change from 2008	20.3%

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: No answer
 Fund: Enterprise

Annual service charge \$54.00
 0 – 4,000 CF \$ 1.36/HCF
 >4,000 CF \$ 1.90 "

Billing Frequency: Semi-Annually

Residential Sewer Rates:

Last adjusted: May 2008
 Next adjustment scheduled: May 2011
 Fund: Enterprise

Annual minimum charge \$48.00
 All units \$ 2.40/HCF
 Based on 90% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$217.20
Sewer	\$259.20
Combined	\$476.40
% change from 2008	2.6%

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 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge \$10.00
 0 – 60 HCF \$ 2.10/HCF
 >60 – 120 HCF \$ 2.61 "
 >120 HCF \$ 3.08 "

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge \$10.00
 0 – 60 HCF \$ 5.53/HCF
 >60 – 120 HCF \$ 6.34 "
 >120 HCF \$ 7.22 "
 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	\$252.00
Sewer	\$663.60
Combined	\$915.60
% change from 2008	4.0%

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 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise

All units \$2.55/HCF

Residential Sewer Rates:

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

All units \$4.98/HCF
 Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$306.00
Sewer	\$597.60
Combined	\$903.60
% change from 2008	3.9%

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 2008
 Next adjustment scheduled: Unknown
 Fund: Enterprise

Minimum charge (% meter)

includes 750 CF \$22.43/bill
 >750 – 1,250 CF \$ 2.99/HCF "
 >1,250 – 2,500 CF \$ 3.81 "
 >2,500 – 5,000 CF \$ 5.17 "
 >5,000 – 10,000 CF \$ 5.62 "
 >10,000 – 25,000 CF \$ 5.87 "
 >25,000 \$ 6.11 "

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

>0 – 1,250 CF \$ 2.93/HCF "
 >1,250 – 2,500 CF \$ 3.72 "
 >2,500 – 5,000 CF \$ 4.96 "
 >5,000 – 10,000 CF \$ 6.58 "
 >10,000 – 25,000 CF \$ 8.78 "
 >25,000 – 875,000 CF \$11.65 "
 >875,000 CF \$15.48 "

Based on 100% of water usage.

Billing Frequency: Quarterly

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

Water	\$443.40
Sewer	\$431.70
Combined	\$875.10
% change from 2008	13.8%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Fairhaven

Residential Water Rates:

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

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 \approx 90,000 gals.)	

Water	\$388.80
Sewer	\$690.00
Combined	\$1,078.80
% change from 2008	0.0%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Fall River

Residential Water Rates:

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

Service connection fee (5/8" meter) \$5/quarter
 All units \$1.92/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2008
 Next adjustment scheduled: 2010
 Fund: Enterprise

All units \$ 2.54/HCF
 Stormwater Fee: \$140.00/year
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$250.40
Sewer	\$444.80
Combined	\$695.20
% change from 2008	0.0%

Commercial Water Rates:

Same as residential

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

Same as residential

Fitchburg

Residential Water Rates:

Last adjusted: November 2009
 Next adjustment scheduled: None scheduled
 Fund: Enterprise

Base charge includes 5 HCF \$12.50/bill
 >5 HCF \$ 2.96/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: April 2008
 Next adjustment scheduled: February 2010
 Fund: Enterprise

Base charge includes 9 HCF \$30.60/bill
 >9HCF \$ 3.95/HCF
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$346.00
Sewer	\$454.20
Combined	\$800.20
% change from 2008	6.7%

Commercial Water Rates:

Same as residential

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

Same as residential

Gloucester

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

All units \$7.52/kgal

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

All units \$12.90/kgal
 Based on 100% of water usage.

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

Water	\$676.80
Sewer	\$1,161.00
Combined	\$1,837.80
% change from 2008	2.5%

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 2009
 Next adjustment scheduled: No answer
 Fund: General

All units \$2.54/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

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

All units \$3.57/HCF
 Based on 100% of water usage.

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

Water	\$304.80
Sewer	\$428.40
Combined	\$733.20
% change from 2008	1.7%

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: No answer
 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: 2012
 Fund: Enterprise
 Base charge \$5.00/bill
 All units \$5.40/kgal
 Based on 100% of water usage.

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

Water	\$387.81
Sewer	\$486.00
Combined	\$873.81
% change from 2008	9.5%

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 2009
 Next adjustment scheduled: July 2010
 Fund: General
 Minimum charge includes 4 HCF \$9.60/bill
 >4 – 15 HCF \$2.40/kgal
 >15 – 30 HCF \$2.76 "
 >30 – 50 HCF \$2.81 "
 >50 – 150 HCF \$2.85 "
 >150 HCF \$2.90 "

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: General
 Minimum charge includes 4 HCF \$17.68/bill
 All units \$ 4.66/kgal
 Based on 100% of water usage.

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

Water	\$309.60
Sewer	\$530.40
Combined	\$840.00
% change from 2008	15.2%

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: January 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise
 All units \$3.10/HCF

Residential Sewer Rates:

Last adjusted: January 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 2008	8.4%

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: August 2007
 Next adjustment scheduled: No answer
 Fund: Enterprise
 0 – 50 HCF \$1.67/HCF
 >50 – 100 HCF \$1.972 "
 >100 – 200 HCF \$2.003 "
 >200 – 500 HCF \$2.033 "
 >500 HCF \$2.049 "

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	\$200.40
Sewer	\$324.96
Combined	\$525.36
% change from 2008	6.5%

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: September 2008
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Minimum bill includes 10,000 gals.

>10 – 35 kgal \$26.62/bill
 >35 – 70 kgal \$ 2.31/kgal
 >70 kgal \$ 3.53 "
 \$ 4.96 "

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Minimum bill includes 10,000 gals.

>10 kgal \$68.90/bill
 \$ 6.90/kgal

Based on 75% of water usage.

Billing Frequency: Semi-Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$239.34
Sewer	\$465.60
Combined	\$704.94
% change from 2008	3.0%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

New Bedford

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge \$26.17/year

Meter rental fee (5/8" meter) \$ 5.25/year

All units \$ 1.76/HCF

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge \$70.00/year

All units \$ 3.90/HCF

Based on 100% of water usage.

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$242.62
Sewer	\$538.00
Combined	\$780.62
% change from 2008	8.3%

Commercial Water Rates:

Same as residential

Commercial Sewer Rates:

Same as residential

Senior and/or Low Income Discounts: None

Salem

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum bill (5/8" meter) \$22.70
 All units \$ 2.27/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

All units \$4.85/HCF
 Based on 100% of water usage.

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

Water	\$272.40
Sewer	\$582.00
Combined	\$854.40
% change from 2008	4.7%

Commercial Water Rates:

All units \$3.08/HCF

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

0 – 250 HCF/month \$7.35/HCF
 >250 HCF/month \$9.42/HCF

- The rates cited above exclude a 10% discount for all residential water bills paid within 15 days of the bill date.

Springfield

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Chapter 40N

Service charge (5/8") \$2.50/month
 All units \$2.02/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Chapter 40N

All units \$2.86/HCF
 Based on 100% of water usage.

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

Water	\$272.40
Sewer	\$343.20
Combined	\$615.60
% change from 2008	10.1%

Commercial Water Rates:

Industrial users only \$2.02/HCF

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

Commercial Sewer Rates:

Industrial users only \$2.86/HCF

Tewksbury

Residential Water Rates:

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

0 – 59 kgal/year \$5.58/kgal
 >59 – 149 kgal/year \$7.25 "
 >149 kgal/year \$9.03 "

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

Residential Sewer Rates:

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

0 – 59 kgal/year \$ 7.53/kgal
 >59 – 149 kgal/year \$ 9.05 "
 >149 kgal/year \$11.61 "
 Based on 100% of water usage.

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)
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Water	\$553.97
Sewer	\$724.82
Combined	\$1,278.79
% change from 2008	4.1%

Commercial Water Rates:

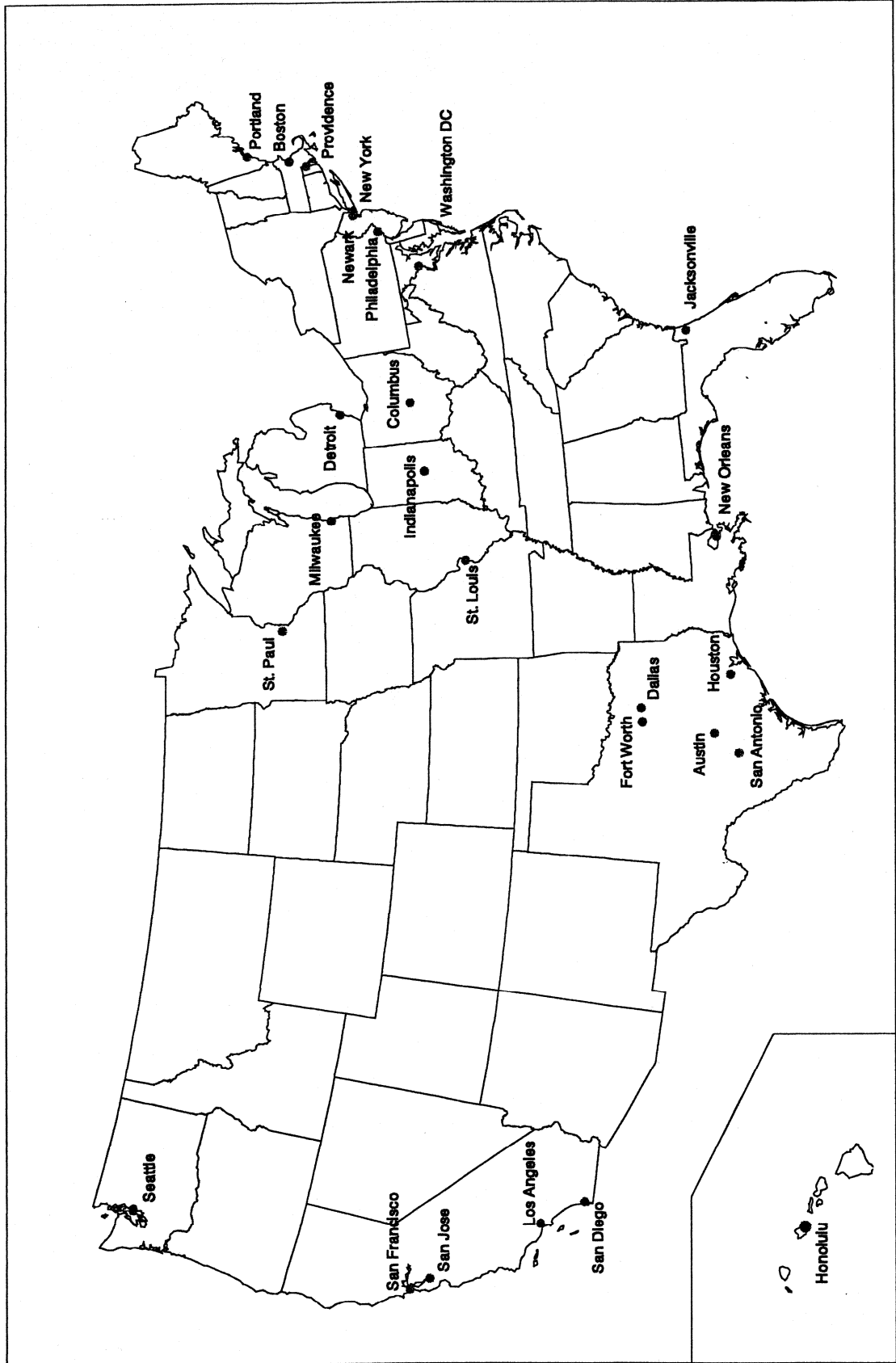
Same as residential

Senior and/or Low Income Discounts: None

Commercial Sewer Rates:

Same as residential

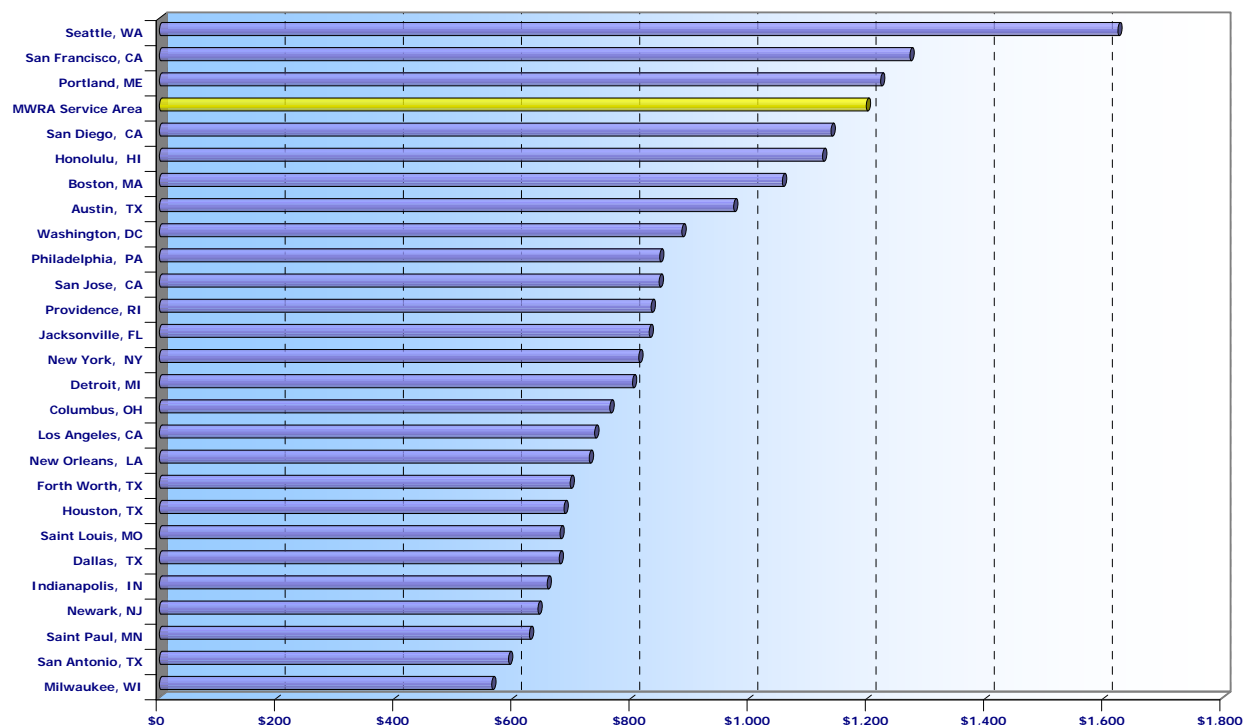
COMPARATIVE RESIDENTIAL 2009 WATER AND SEWER CHARGES FOR U.S. CITIES



COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES FOR MAJOR UNITED STATES CITIES 2009				
	Water	Sewer	Combined	Percentage Change
Austin, TX	\$277.32	\$694.50	\$971.82	3.9%
Boston, MA	461.11	593.06	1,054.18	3.5%
Columbus, OH	326.54	435.80	762.34	8.3%
Dallas, TX	247.92	428.64	676.56	3.2%
Detroit, MI	230.64	569.88	800.52	19.4%
Fort Worth, TX	324.24	370.80	695.04	2.8%
Honolulu, HI	272.76	849.48	1,122.24	15.5%
Houston, TX	315.48	369.18	684.66	5.1%
Indianapolis, IN	351.24	304.97	656.21	11.1%
Jacksonville, FL	266.28	562.57	828.84	16.5%
Los Angeles, CA	384.50	352.12	736.62	6.9%
Milwaukee, WI	225.48	336.84	562.32	7.1%
MWRA Service Area	468.50	727.70	1,196.20	5.3%
New Orleans, LA	279.15	448.26	727.41	1.9%
New York, NY	313.20	497.99	811.19	13.0%
Newark, NJ	276.02	364.58	640.61	8.3%
Philadelphia, PA	392.64	453.96	846.60	6.7%
Portland, ME	303.60	916.80	1,220.40	4.3%
Providence, RI	364.65	467.49	832.14	6.9%
Saint Louis, MO	274.76	403.20	677.96	6.4%
Saint Paul, MN	250.56	375.60	626.16	8.4%
San Antonio, TX	349.44	241.32	590.77	2.8%
San Diego, CA	577.39	559.19	1,136.58	7.3%
San Francisco, CA	451.08	819.00	1,270.08	7.8%
San Jose, CA	473.70	372.00	845.70	8.1%
Seattle, WA	555.16	1,066.80	1,621.96	17.8%
Washington, DC	339.05	545.11	884.16	12.4%
AVERAGE	\$346.39	\$523.22	\$869.60	8.3%

Water and sewer charges are based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons)

COMPARATIVE CHART OF RESIDENTIAL COMBINED WATER AND SEWER CHARGES 2009



Austin, Texas

Residential Water Rates:

Last adjusted: November 2009
 Next adjustment scheduled: November 2010
 Fund: Enterprise

Base charge (5/8" meter)	\$ 6.70/month
0 – 2,000 gallons	\$ 1.00/kgal
>2,000 – 9,000 gallons	\$ 2.62 "
>9,000 – 15,000 gallons	\$ 6.71 "
>15,000 – 25,000 gallons	\$ 9.00 "
>25,000	\$10.00 "

Residential Sewer Rates:

Last adjusted: November 2009
 Next adjustment scheduled: November 2010
 Fund: Enterprise

Base charge	\$ 8.50/month
0 – 2,000 gallons	\$ 3.43/kgal
>2,000 gallons	\$ 7.73 "
Based on winter average	

Billing Frequency: Monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$277.32
Sewer	\$694.50
Combined	\$971.82
% change from 2008	3.9%

Columbus, Ohio

Residential Water Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Base charge (5/8" meter)	\$16.65/quarter
0 – 5 HCF/month	\$ 1.982/HCF
>5 HCF/month	\$ 2.203 "

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Base charge (5/8" meter)	\$9.65/quarter
All units	\$3.310/HCF

Based on 100% of water usage

Billing Frequency: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$326.54
Sewer	\$435.80
Combined	\$762.34
% change from 2008	8.3%

Dallas, Texas

Residential Water Rates:

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

Base charge (5/8" meter) \$4.00/bill
 0 – 4,000 gallons \$1.54/kgal
 >4,000 – 10,000 gallons \$3.00 "
 >10,000 – 15,000 gallons \$4.20 "
 >15,000 gallons \$5.38 "

Billing Frequency: Monthly

Residential Sewer Rates:

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

Base charge (5/8" meter) \$3.77/bill
 All units \$4.26/kgal
 Based on the annually adjusted average water consumed during the winter months of December, January, February, and March; 40,000-gallon maximum or actual consumption rate per month, whichever is less.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$247.92
Sewer	\$428.64
Combined	\$676.56
% change from 2008	3.2%

Detroit, Michigan

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Meter charge (5/8" meter) \$4.05/bill
 0 – 3 HCF \$1.517/HCF
 >3 – 33 HCF \$1.385 "
 >33 HCF \$1.246 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge \$ 3.34/bill
 Drainage charge (5/8" meter) \$12.63/bill
 All units \$ 3.152/HCF
 Based on 100% of water usage

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$230.64
Sewer	\$569.88
Combined	\$800.52
% change from 2008	19.4%

Fort Worth, Texas

Residential Water Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Service charge (5/8" meter) \$6.50/bill
 0 – 8 HCF \$1.90/HCF
 >8 – 20 HCF \$2.66 "
 >20 – 30 HCF \$3.28 "
 >30 HCF \$3.94 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Base charge \$4.50/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 computer the monthly charge exceed 15 HCF.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$324.24
Sewer	\$370.80
Combined	\$695.04
% change from 2008	2.8%

Honolulu, Hawaii

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge \$5.56/bill
 0 – 13 kgal \$2.66
 >13 – 30 kgal \$3.20 "
 >30 kgal \$4.77 "

Billing Frequency: Bi-monthly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge includes first 2 kgal \$59.47/month
 >2 kgal \$ 2.51/kgal
 Based on 82% of water usage after first 2 kgal/month

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$272.76
Sewer	\$849.48
Combined	\$1,122.24
% change from 2008	15.5%

Houston, Texas

Residential Water Rates:

Last adjusted:	April 2009
Next adjustment scheduled:	No answer
Fund:	Enterprise
Base charge (5/8" meter) includes 1,000 gallons	\$ 3.44/bill
>1,000 – 2,000 gallons	\$ 8.16 "
>2,000 – 3,000 gallons	\$ 8.16 "
>3,000 – 4,000 gallons	\$16.00 "
>4,000 – 5,000 gallons	\$18.95 "
>5,000 – 6,000 gallons	\$21.91 "
>6,000 – 12,000 gallons	\$21.91 + \$2.92 per add'l kgal
>12,000 gallons	\$39.43 + \$5.27 per add'l kgal

Residential Sewer Rates:

Last adjusted:	April 2009
Next adjustment scheduled:	No answer
Fund:	Enterprise
Base charge includes 3,000 gallons	\$ 6.51/bill
>3,000 – 4,000 gallons	\$15.77 "
>4,000 – 5,000 gallons	\$18.72 "
>5,000 gallons	\$ 3.95/kgal + \$ 1.14 service fee

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	\$315.48
Sewer	\$369.18
Combined	\$684.66
% change from 2008	5.1%

Indianapolis, Indiana

Residential Water Rates:

Last adjusted:	September 2009
Next adjustment scheduled:	No answer
Fund:	Enterprise
Base charge (5/8" meter)	\$9.10/bill
0 – 15 HCF	\$2.017
>15 – 200 HCF	\$1.937 "
>200 – 1,000 HCF	\$1.787 "
>1,000 – 5,000 HCF	\$1.190 "
>5,000 HCF	\$0.907 "

Residential Sewer Rates:

Last adjusted:	September 2009
Next adjustment scheduled:	No answer
Fund:	General
Base charge	\$ 5.68/bill
0 – 7,500 gallons	\$ 2.6312/kgal
>7,500 gallons	\$ 2.7661 "
Minimum bill	\$15.22

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	\$351.24
Sewer	\$304.97
Combined	\$656.21
% change from 2008	11.1%

Jacksonville, Florida

Residential Water Rates:

Last adjusted: October 2009
 Next adjustment scheduled: October 2010
 Fund: Enterprise

Base charge (5/8" meter) \$11.08/bill
 0 – 6 kgal \$ 0.93/kgal
 >6 – 20 kgal \$ 1.45 "
 >20 kgal \$ 4.96 "
 Environmental (all kgal) \$ 0.10 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: October 2009
 Next adjustment scheduled: October 2010
 Fund: Enterprise

Base charge \$ 7.34/bill
 0 – 6 kgal \$ 4.94/kgal
 >6 – 20 kgal \$ 5.19 "
 Environmental 1 – 20 kgal \$ 0.10/kgal
 MAXIMUM BILL \$111.64
 Based on 100% of water usage up to 20 kgal

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$266.28
Sewer	\$562.57
Combined	\$828.84
% change from 2008	16.5%

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: October 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

November 1 to May 31
 0 – 28 HCF (average rate) \$3.10/HCF
 >28 HCF (average rate) \$3.55 "
 June 1 to October 31
 0 – 44 HCF (average rate) \$3.35/HCF
 >44 HCF (average rate) \$5.42 "
 Billing Frequency: Bi-monthly

Residential Sewer Rates:

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

All units \$3.297/HCF
 Dry Winter Compensation factor is 89%.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
Water	\$384.50
Sewer	\$352.12
Combined	\$736.62
% change from 2008	6.9%

- 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 89%. Periods after July of each year have the calculated daily volume multiplied by the days in the period times \$3.297/HCF.

Milwaukee, Wisconsin

Residential Water Rates:

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

Base charge (¾" meter) \$16.17/bill
 0 – 100 HCF \$ 1.340/HCF
 >100 – 5,000 HCF \$ 1.250 "
 >5,000 – 20,000 HCF \$ 0.780 "
 >20,000 HCF \$ 0.730 "

Billing Frequency: Quarterly

Residential Sewer Rates:

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

Service charge \$13.71/bill
 All units (volume charge) \$ 1.23/HCF
 Local Sewerage Charge \$ 1.12 "
 (formerly the Sewer Maintenance Fee)
 Based on winter water usage

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$225.48
Sewer	\$336.84
Combined	\$562.32
% change from 2008	7.1%

New Orleans, Louisiana

Residential Water Rates:

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

Base charge (⅝" meter) \$3.70/bill
 0 – 3 kgal \$2.47 "
 >3 – 20 kgal \$4.21 "
 >20 – 1,000 kgal \$3.31 "
 >1,000 kgal \$2.78 "

Billing Frequency: Monthly

Residential Sewer Rates:

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

Base 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	\$279.15
Sewer	\$448.26
Combined	\$727.41
% change from 2008	1.9%

New York, New York

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge \$0.35/day
 All units \$2.61/HCF

Billing Frequency: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Minimum charge \$0.56/day
 All units \$4.15/HCF

Based on 159% of water rate.

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

Water	\$313.20
Sewer	\$497.99
Combined	\$811.19
% change from 2008	13.0%

Newark, New Jersey

Residential Water Rates:

Last adjusted: February 2009
 Next adjustment scheduled: No answer
 Fund: General

Base charge includes 3 HCF \$7.42/bill
 >3 – 333 HCF \$2.226/HCF
 >333 – 1,666 HCF \$1.987 "
 >1,666 HCF \$1.782 "

Billing Frequency: Monthly

Residential Sewer Rates:

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

Base charge includes 6 HCF \$18.99/bill
 >6 HCF \$ 2.848/HCF
 Based on 100% of water usage

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

Water	\$276.02
Sewer	\$364.58
Combined	\$640.61
% change from 2008	8.3%

Philadelphia, Pennsylvania

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge (5/8" meter) \$5.53
 0 – 20 HCF \$2.719/HCF
 >20 – 100 HCF \$2.193 "
 >100 – 200 HCF \$2.007 "
 >200 HCF \$1.530 "

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge (5/8" meter) \$17.32/bill
 All units \$ 2.051/HCF
 Based on 100% of water usage

Billing Frequency: Monthly

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

Water	\$392.64
Sewer	\$453.96
Combined	\$846.60
% change from 2008	6.7%

Portland, Maine

Residential Water Rates:

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

Minimum charge (5/8" meter) includes 1 HCF \$7.75/bill
 >1 – 30 HCF \$1.95/HCF
 >30 – 100 HCF \$1.53 "
 >100 – 500 HCF \$1.34 "
 >500 HCF \$0.77 "
 Billing Frequency: Monthly

Residential Sewer Rates:

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

Minimum charge (5/8" meter) includes 1 HCF \$7.64/bill
 >1 \$7.64/HCF
 Based on 100% of water usage

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$303.60
Sewer	\$916.80
Combined	\$1,220.40
% change from 2008	4.3%

Providence, Rhode Island

Residential Water Rates:

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

Minimum charge (5/8" meter) \$16.69/bill
 All units \$ 2.134/HCF
 Combined State Surcharge \$ 0.21842 "

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Annual Fixed Fee (any size meter up to 6 dwelling units) \$159.21/dwelling
 All units \$ 2.569/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: Quarterly

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
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Water	\$364.65
Sewer	\$467.49
Combined	\$832.14
% change from 2008	6.9%

- 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 2009
 Next adjustment scheduled: No answer
 Fund: Enterprise

Base charge (5/8" meter) \$21.29
 0 – 250 HCF \$ 1.58/HCF
 >250 – 20,000 HCF \$ 1.23 "
 >20,000 HCF \$ 0.93 "
 Billing Frequency: Water: Quarterly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Special Revenue

Base charge \$10.90/bill
 Stormwater charge per bill \$ 3.50/mo avg.
 All units \$ 1.92/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	\$274.76
Sewer	\$403.20
Combined	\$677.96
% change from 2008	6.4%

- 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 #67919.
- The stormwater rate is \$0.14 per 100 ft² of impervious surface. Saint Louis lists \$3.40 as the average monthly amount for a residential property.

Saint Paul, Minnesota

Residential Water Rates:

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

Winter – December to May:

0 – 1,000 HCF/month \$2.05/HCF
 >1,000 HCF/month \$2.02 "

Summer – June to November:

0 – 1,000 HCF/month \$2.15/HCF
 >1,000 HCF/month \$2.12 "
 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 \$3.13/HCF
 >1,000 – 5,000 HCF \$3.08 "
 >5,000 HCF \$3.01 "
 Minimum charge of \$7.20 for ¾" and smaller meters.
 Based on 100% of water usage

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

Water	\$250.56
Sewer	\$375.60
Combined	\$626.16
% change from 2008	8.4%

San Antonio, Texas

Residential Water Rates:

Last adjusted: January 2009
 Next adjustment scheduled: No answer
 Fund: General

Base charge (5/8" meter) \$6.77/bill
 Water Supply Fee \$1.529
 Winter – November to June:
 0 – 7.481 kgal \$0.906/kgal
 >7.481 – 12.717 kgal \$1.309 "
 >12.717 – 17.205 kgal \$2.058 "
 >17.205 kgal \$3.288 "
 Summer – July to October:
 0 – 7.481 kgal \$0.906/kgal
 >7.481 – 12.717 kgal \$1.423 "
 >12.717 – 17.205 kgal \$2.217 "
 >17.205 kgal \$4.246 "

EAA Fee \$0.1222/kgal

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: No answer
 Fund: General

Min. charge includes 1.496 kgal \$7.76
 >1.496 kgal \$2.057/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.

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$349.44
Sewer	\$241.32
Combined	\$590.77
% change from 2008	2.8%

- 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 =

San Diego, California

Residential Water Rates:

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

Base charge (5/8" meter) \$17.59/month
 0 – 14 HCF/month \$ 2.977/HCF
 >14 – 28 HCF/month \$ 3.229 "
 >28 HCF/month \$ 3.625 "

Billing Frequency: Bi-monthly

Residential Sewer Rates:

Last adjusted: May 2009
 Next adjustment scheduled: May 2010
 Fund: Enterprise

Base charge \$ 14.32/month
 All units \$ 3.3629/HCF
 Storm drain \$ 1.90/month
 Sewer cap charge per bill (includes base fee) \$173.26
 Based on 100% of water usage

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

Water	\$577.39
Sewer	\$559.19
Combined	\$1,136.58
% change from 2008	7.3%

In 2008, San Diego approved a settlement requiring the city to reimburse single-family residential customers approximately \$40 million over four years. Eligible residential customers – those who had current sewer accounts during the ten-year period prior to October 1, 2004 – are receiving a reversal of both the increased base fee and the price per HCF for sewer services, as well as a credit of \$3.25. Approximately 97% of San Diego's single-family residential customers are eligible for this adjustment.

San Francisco, California

Residential Water Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Base charge (5/8" meter) \$5.40
 0 – 3 HCF/month \$2.61/HCF
 >3 HCF/month \$3.48 "

Billing Frequency: Bi-monthly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

0 – 3 HCF/dwelling unit/mo \$6.05/HCF
 >3 HCF \$8.35 "
 Based on 90% of water usage

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

Water	\$451.08
Sewer	\$819.00
Combined	\$1,270.08
% change from 2008	7.8%

- San Francisco calculates its bills on a monthly basis, but bills its customers every two months.
- 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 \$325.80 (water) and \$355.61 (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/year. At this level, annual costs per household would be \$242.28 (water) and \$280.44 (sewer).

San Jose, California

Residential Water Rates:

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

Base charge (5/8" meter) \$15.26/bill
 0 – 13 HCF \$ 2.2183/HCF
 >13 HCF \$ 2.4393 "
 Billing Frequency: Water: Bi-monthly

Residential Sewer Rates:

Last adjusted: July 2009
 Next adjustment scheduled: July 2010
 Fund: Enterprise

Flat rate \$372.00/year
 Sewer: Annually

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$473.70
Sewer	\$372.00
Combined	\$845.70
% change from 2008	8.1%

- 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: March 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

Base charge (3/4" meter) \$11.68/month
 Winter – September 16
 to May 15:
 All units \$ 3.25/HCF
 Summer – May 16
 To September 15:
 0 – 5 HCF \$ 3.58/HCF
 5 – 18 HCF \$ 4.17 "
 >18 HCF \$10.62 "

Residential Sewer Rates:

Last adjusted: January 2009
 Next adjustment scheduled: January 2010
 Fund: Enterprise

All units \$8.89/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

Billing Frequency: Bi-monthly

Annual Cost AWWA Standard for Historical Comparison (120 HCF ≈ 90,000 gals.)	
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Water	\$555.16
Sewer	\$1,066.80
Combined	\$1,621.96
% change from 2008	17.8%

- Seattle reports that the typical single-family residential customer uses 66 HCF/year. The annual cost for water service at this level of usage is \$363.10.
- The 2009 water rates include a 10.2% temporary surcharge to cover a temporary increase in the City's utility tax.

Washington, District of Columbia

Residential Water Rates:

Last adjusted: October 2009
 Next adjustment scheduled: October 2010
 Fund: Enterprise

Meter fee (5/8" meter) \$0.824/month
 All units \$2.51/HCF
 Right-of-Way Fee \$0.057 "
 PILOT Fee \$0.176 "

Billing Frequency: Monthly

Residential Sewer Rates:

Last adjusted: October 2009
 Next adjustment scheduled: October 2010
 Fund: Enterprise

Meter fee (5/8" meter) \$1.186/month
 All units \$3.61/HCF
 Right of Way Fee \$0.083 "
 PILOT Fee \$0.254 "
 Impervious Area Charge \$2.20/ERU/month
 DC Govt. Stormwater Fee \$2.57/ERU/month

Annual Cost AWWA Standard for Historical Comparison (120 HCF \approx 90,000 gals.)	
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Water	\$339.05
Sewer	\$545.11
Combined	\$884.16
% change from 2008	10.2%

- Right-of-Way, PILOT, and Metering fee have been prorated based on 41% water and 59% sewer.
- ERU = "Equivalent Residential Unit"
- On May 1, 2009 the method of calculating the stormwater fee was changed, resulting in a mid-year increase to this charge of \$0.59. No actual adjustment to this fee was made in October 2009.

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APPENDIX A

2008 WATER & SEWER RETAIL RATE INFORMATION

NOTE: The Advisory Board endeavors to portray the most accurate information possible at time of print. As a result, some 2008 rates and calculations may differ from the information published in the 2008 Retail Rate Survey to reflect more accurate information obtained since that time.

COMBINED ANNUAL WATER AND SEWER CHARGES IN MWRA COMMUNITIES 2008

(Charges include MWRA, Community and alternatively supplied services)

	Water	Sewer	Combined	Change
Arlington (W/S)*	\$419.00	\$406.80	\$825.80	7.2%
Ashland (S)	398.00	1,046.40	1,444.40	0.0%
Bedford (S/partial W)	475.00	725.00	1,200.00	-2.0%
Belmont (W/S)	620.96	1,062.12	1,683.08	5.1%
Boston (W/S)	445.57	573.13	1,018.70	5.6%
Braintree (S)	259.00	734.40	993.40	0.0%
Brookline (W/S)	546.00	714.00	1,260.00	2.4%
Burlington (S)	140.20	304.50	444.70	5.9%
Cambridge (S/partial W)	348.00	810.00	1,158.00	4.0%
Canton (S/partial W)	471.60	746.40	1,218.00	7.7%
Chelsea (W/S)	458.40	697.20	1,155.60	9.1%
Chicopee (W)	324.00	488.13	812.13	7.9%
Clinton (W/S)	343.60	257.70	601.30	0.0%
Dedham (S)	515.44	969.60	1,485.04	0.0%
Everett (W/S)	181.20	493.20	674.40	0.0%
Framingham (W/S)	493.08	438.36	931.44	15.5%
Hingham (S)	761.76	912.00	1,673.76	8.6%
Holbrook (S)	459.60	774.00	1,233.60	59.9%
Leominster (partial W)	313.80	239.60	553.40	4.1%
Lexington (W/S)	415.60	873.60	1,289.20	2.9%
Lynn (partial W)	376.54	692.08	1,068.62	2.5%
Malden (W/S)	438.96	532.08	971.04	3.0%
Marblehead (W)	490.00	680.00	1,170.00	4.1%
Marlborough (partial W)	609.60	409.20	1,018.80	10.3%
Medford (W/S)	702.00	828.00	1,530.00	2.0%
Melrose (W/S)	578.40	889.92	1,468.32	6.9%
Milton (W/S)	565.20	1,023.12	1,588.32	6.4%
Nahant (W)*	726.00	870.00	1,596.00	0.0%
Natick (S)	293.20	775.50	1,068.70	17.0%
Needham (S/partial W)	423.00	997.80	1,420.80	0.0%
Newton (W/S)	531.20	743.60	1,274.80	6.9%
Northborough (partial W)	487.64	464.04	951.68	4.0%
Norwood (W/S)	469.32	662.76	1,132.08	9.0%
Peabody (partial W)	306.00	409.80	715.80	0.0%
Quincy (W/S)	511.20	826.56	1,337.76	17.5%
Randolph (S)	378.00	652.40	1,030.40	25.1%
Reading (W/S)	918.00	910.80	1,828.80	11.2%
Revere (W/S)	313.20	976.80	1,290.00	2.9%
Saugus (W)	431.00	344.00	775.00	0.0%
Somerville (W/S)	489.39	767.49	1,256.88	5.3%
Stoneham (W/S)	504.00	936.00	1,440.00	13.2%
Stoughton (S)	442.80	895.20	1,338.00	3.5%
Swampscott (W)	670.40	557.00	1,227.40	15.3%
Wakefield (S/partial W)	480.60	888.84	1,369.44	-6.4%
Walpole (S)	528.84	644.74	1,173.58	5.1%
Waltham (W/S)	356.64	642.72	999.36	10.6%
Watertown (W/S)	415.04	782.40	1,197.44	1.2%
Wellesley (S/partial W)	345.72	798.00	1,143.72	2.3%
Westwood (S)	515.44	770.00	1,285.44	-2.7%
Weymouth (S)	491.48	827.60	1,319.08	4.9%
Wilbraham (W)	342.00	396.00	738.00	15.0%
Wilmington (S)	436.00	518.40	954.40	-3.5%
Winchester (S/partial W)*	255.60	313.20	568.80	0.0%
Winthrop (W/S)	571.20	877.20	1,448.40	10.8%
Woburn (S/partial W)	192.00	322.00	514.00	9.8%
Worcester (partial W)	340.80	409.92	750.72	5.7%
AVERAGE	\$452.08	\$683.95	\$1,136.03	5.9%

The following communities do not provide municipal sewer services and are therefore 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
2008**

	WATER	SEWER
Arlington (W/S)*	\$419.00	\$406.80
Ashland (S)	-	1046.40
Bedford (S/partial W)	475.00	725.00
Belmont (W/S)	620.96	1062.12
Boston (W/S)	445.57	573.13
Braintree (S)	-	734.40
Brookline (W/S)	546.00	714.00
Burlington (S)	-	304.50
Cambridge (S/partial W)	348.00	810.00
Canton (S/partial W)	471.60	746.40
Chelsea (W/S)	458.40	697.20
Chicopee (W)	324.00	-
Clinton (W/S)	343.60	257.70
Dedham (S)	-	969.60
Everett (W/S)	181.20	493.20
Framingham (W/S)	493.08	438.36
Hingham (S)	-	912.00
Holbrook (S)	-	774.00
Leominster (partial W)	313.80	-
Lexington (W/S)	415.60	873.60
Lynn (partial W)	376.54	-
Lynnfield (W)	354.80	-
Malden (W/S)	438.96	532.08
Marblehead (W)	490.00	-
Marlborough (partial W)	609.60	-
Medford (W/S)	702.00	828.00
Melrose (W/S)	578.40	889.92
Milton (W/S)	565.20	1023.12
Nahant (W)*	726.00	-
Natick (S)	-	775.50
Needham (S/partial W)	423.00	997.80
Newton (W/S)	531.20	743.60
Northborough (partial W)	487.64	-
Norwood (W/S)	469.32	662.76
Peabody (partial W)	306.00	-
Quincy (W/S)	511.20	826.56
Randolph (S)	-	652.40
Reading (W/S)	918.00	910.80
Revere (W/S)	313.20	976.80
Saugus (W)	431.00	-
Somerville (W/S)	489.39	767.49
South Hadley (W)	368.00	-
Southborough (W)	410.32	-
Stoneham (W/S)	504.00	936.00
Stoughton (S)	442.80	895.20
Swampscott (W)	670.40	-
Wakefield (S/partial W)	480.60	888.84
Walpole (S)	-	644.74
Waltham (W/S)	356.64	642.72
Watertown (W/S)	415.04	782.40
Wellesley (S/partial W)	345.72	798.00
Weston (W)	234.60	-
Westwood (S)	-	770.00
Weymouth (S)	-	827.60
Wilbraham (W)	342.00	-
Wilmington (S)	-	518.40
Winchester (S/partial W)*	255.60	313.20
Winthrop (W/S)	571.20	877.20
Woburn (S/partial W)	192.00	322.00
Worcester (partial W)	340.80	-
AVERAGE	\$457.60	\$735.04

Water and Sewer Charges are based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons).

*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
2008**

	Water	Sewer	Combined
Abington	\$426.00	\$460.00	\$886.00
Agawam	\$205.20	\$259.20	464.40
Ayer	\$241.20	\$639.60	880.80
Beverly	\$294.00	\$576.00	870.00
Brockton	\$443.40	\$325.80	769.20
Fairhaven	\$388.80	\$690.00	1,078.80
Fall River	\$250.40	\$444.80	695.20
Fitchburg	\$296.00	\$454.20	750.20
Gloucester	\$704.70	\$1,088.10	1,792.80
Haverhill	\$298.80	\$422.40	721.20
Holyoke	\$378.81	\$419.40	798.21
Hudson	\$298.20	\$430.80	729.00
Lawrence	\$342.00	\$372.00	714.00
Lowell	\$200.40	\$292.80	493.20
Medfield	\$239.34	\$444.90	684.24
New Bedford	\$212.62	\$508.00	720.62
Salem	\$261.60	\$554.40	816.00
Springfield	\$254.40	\$304.80	559.20
Tewksbury	\$503.42	\$724.82	1,228.24

Water and sewer charges based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons).

**COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES
FOR MAJOR UNITED STATES CITIES
2008**

	Water	Sewer	Combined
Austin, TX	\$269.46	\$666.00	\$935.46
Boston, MA	445.57	573.13	1,018.70
Columbus, OH	292.68	411.36	704.04
Dallas, TX	236.40	418.98	655.38
Detroit, MI	219.48	451.20	670.68
Fort Worth, TX	305.04	370.80	675.84
Honolulu, HI	252.30	719.53	971.83
Houston, TX	300.24	351.48	651.72
Indianapolis, IN	316.92	273.74	590.66
Jacksonville, FL	231.13	480.45	711.58
Los Angeles, CA	343.53	345.31	688.84
Milwaukee, WI	217.12	307.88	525.00
MWRA Service Area	452.08	683.95	1,136.03
New Orleans, LA	265.59	448.26	713.85
New York, NY	277.20	440.75	717.95
Newark, NJ	259.20	332.54	591.74
Philadelphia, PA	355.68	437.64	793.32
Portland, ME	288.24	882.00	1,170.24
Providence, RI	345.21	433.26	778.47
Saint Louis, MO	247.12	390.00	637.12
Saint Paul, MN	235.56	342.00	577.56
San Antonio, TX	345.55	229.15	574.70
San Diego, CA	504.07	555.24	1,059.31
San Francisco, CA	381.24	797.28	1,178.52
San Jose, CA	456.98	325.08	782.06
Seattle, WA	447.00	930.00	1,377.00
Washington, DC	325.08	477.60	802.68

Water and sewer charges are based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons)

APPENDIX B

SECOND METER INFORMATION AND GLOSSARY

SECOND METER INFORMATION:

	Number	Percent
MWRA or partially supplied communities utilizing second meters to adjust water bills	YES: 38 NO: 21 No answer: 1	YES: 63.3% NO: 35.0% No answer: 0.02%

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 which 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 - 5 water, 4 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 - 47 water, 45 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

FINAL MWRA FISCAL YEAR 2009 BILLABLE WATER AND SEWER CHARGES

MASSACHUSETTS WATER RESOURCES AUTHORITY

FINAL FY09 BILLABLE WATER AND SEWER CHARGES

MWRA Customer	Final FY08 Water Assessment	Final FY09 Water Assessment	Percent Change from FY08	Final FY08 Sewer Assessment	Final FY09 Sewer Assessment	Percent Change from FY08	Final FY08 Combined Assessment	Final FY09 Combined Assessment	Percent Change from FY08
ARLINGTON	\$3,798,111	\$3,893,299	2.5%	\$6,367,419	\$6,732,264	5.7%	\$10,165,530	\$10,625,563	4.5%
ASHLAND	0	0	0.0%	1,721,023	1,869,649	8.6%	1,721,023	1,869,649	8.6%
BEDFORD	0	0	0.0%	2,779,636	2,929,353	5.4%	2,779,636	2,929,353	5.4%
BELMONT	2,232,215	2,094,622	-6.2%	3,912,441	4,161,876	6.4%	6,144,656	6,256,498	1.8%
BOSTON (BWSC)	65,521,627	66,256,569	1.1%	103,137,432	108,380,160	5.1%	168,659,059	174,636,729	3.5%
BRAINTREE	0	0	0.0%	6,744,131	6,880,530	2.0%	6,744,131	6,880,530	2.0%
BROOKLINE	5,198,049	5,216,987	0.4%	10,299,870	10,824,841	5.1%	15,497,919	16,041,828	3.5%
BURLINGTON	0	0	0.0%	4,055,100	4,366,388	7.7%	4,055,100	4,366,388	7.7%
CAMBRIDGE	0	0	0.0%	19,830,036	21,019,359	6.0%	19,830,036	21,019,359	6.0%
CANTON	2,262,620	2,316,722	2.4%	3,242,180	3,256,556	0.4%	5,504,800	5,573,278	1.2%
CHELSEA	2,750,255	2,978,069	8.3%	4,928,138	5,739,883	16.5%	7,678,393	8,717,952	13.5%
DEDHAM	0	0	0.0%	4,650,140	4,740,776	1.9%	4,650,140	4,740,776	1.9%
DEDHAM-WESTWOOD WATER DISTRICT	15,572	7,234	-53.5%	0	0	0.0%	15,572	7,234	-53.5%
EVERETT	4,187,928	4,552,198	8.7%	6,187,367	6,530,382	5.5%	10,375,295	11,082,580	6.8%
FRAMINGHAM	6,525,095	6,531,365	0.1%	8,846,214	9,517,520	7.6%	15,371,309	16,048,885	4.4%
HINGHAM SEWER DISTRICT	0	0	0.0%	1,323,016	1,368,516	3.4%	1,323,016	1,368,516	3.4%
HOLBROOK	0	0	0.0%	1,219,867	1,325,371	8.6%	1,219,867	1,325,371	8.6%
LEXINGTON	4,565,881	4,482,551	-1.8%	5,855,209	6,245,946	6.7%	10,421,090	10,728,497	2.9%
LYNN (LWSC)	220,195	159,682	-27.5%	0	0	0.0%	220,195	159,682	-27.5%
LYNNFIELD WATER DISTRICT	439,487	456,370	3.8%	0	0	0.0%	439,487	456,370	3.8%
MALDEN	5,465,015	5,658,857	3.5%	9,664,493	10,367,785	7.3%	15,129,508	16,026,642	5.9%
MARBLEHEAD	1,828,854	1,768,433	-3.3%	0	0	0.0%	1,828,854	1,768,433	-3.3%
MARLBOROUGH	3,392,651	2,901,191	-14.5%	0	0	0.0%	3,392,651	2,901,191	-14.5%
MEDFORD	4,737,121	4,761,277	0.5%	9,654,660	10,318,684	6.9%	14,391,781	15,079,961	4.8%
MELROSE	2,118,630	2,048,045	-3.3%	4,814,755	5,148,514	6.9%	6,933,385	7,196,559	3.8%
MILTON	2,428,933	2,122,571	-12.6%	4,353,853	4,520,576	3.8%	6,782,786	6,643,147	-2.1%
NAHANT	351,096	340,192	-3.1%	0	0	0.0%	351,096	340,192	-3.1%
NATICK	0	0	0.0%	3,941,631	4,219,801	7.1%	3,941,631	4,219,801	7.1%
NEEDHAM	1,061,719	427,332	-59.8%	4,893,374	5,028,493	2.8%	5,955,093	5,455,825	-8.4%
NEWTON	8,620,195	8,662,740	0.5%	16,260,200	17,548,082	7.9%	24,880,395	26,210,822	5.3%
NORTHBOROUGH	852,523	823,787	-3.4%	0	0	0.0%	852,523	823,787	-3.4%
NORWOOD	3,131,158	3,017,939	-3.6%	5,402,950	5,565,811	3.0%	8,534,108	8,583,750	0.6%
PEABODY	527,353	312,793	-40.7%	0	0	0.0%	527,353	312,793	-40.7%
QUINCY	9,455,292	9,360,041	-1.0%	15,857,588	16,761,810	5.7%	25,312,880	26,121,851	3.2%
RANDOLPH	0	0	0.0%	4,601,421	4,821,993	4.8%	4,601,421	4,821,993	4.8%
READING	1,636,165	1,737,501	6.2%	3,555,143	3,844,457	8.1%	5,191,308	5,581,958	7.5%
REVERE	3,890,130	4,039,752	3.8%	7,560,677	8,782,042	16.2%	11,450,807	12,821,794	12.0%
SAUGUS	2,851,597	2,700,713	-5.3%	0	0	0.0%	2,851,597	2,700,713	-5.3%
SOMERVILLE	5,860,187	5,889,612	0.5%	11,843,075	12,507,364	5.6%	17,703,262	18,396,976	3.9%
SOUTHBOROUGH	751,303	666,245	-11.3%	0	0	0.0%	751,303	666,245	-11.3%
STONEHAM	2,783,131	2,673,786	-3.9%	3,729,778	3,963,348	6.3%	6,512,909	6,637,134	1.9%
STOUGHTON	535,066	485,781	-9.2%	3,735,159	4,013,770	7.5%	4,270,225	4,499,551	5.4%
SWAMPSCOTT	1,416,222	1,380,309	-2.5%	0	0	0.0%	1,416,222	1,380,309	-2.5%
WAKEFIELD	1,443,087	1,408,297	-2.4%	4,688,936	4,942,223	5.4%	6,132,023	6,350,520	3.6%
WALPOLE	0	0	0.0%	2,914,620	3,104,740	6.5%	2,914,620	3,104,740	6.5%
WALTHAM	7,131,291	7,149,732	0.3%	10,890,696	11,731,972	7.7%	18,021,987	18,881,704	4.8%
WATERTOWN	2,683,187	2,807,488	4.6%	4,748,683	5,149,170	8.4%	7,431,870	7,956,658	7.1%
WELLESLEY	853,387	831,203	-2.6%	4,568,401	4,743,999	3.8%	5,421,788	5,575,202	2.8%
WESTON	1,646,079	1,438,311	-12.6%	0	0	0.0%	1,646,079	1,438,311	-12.6%
WESTWOOD	0	0	0.0%	1,964,562	2,072,034	5.5%	1,964,562	2,072,034	5.5%
WEYMOUTH	0	0	0.0%	8,776,895	9,010,767	2.7%	8,776,895	9,010,767	2.7%
WILMINGTON	0	0	0.0%	1,768,207	1,985,771	12.3%	1,768,207	1,985,771	12.3%
WINCHESTER	895,066	812,945	-9.2%	3,132,581	3,366,865	7.5%	4,027,647	4,179,810	3.8%
WINTHROP	1,225,716	1,247,329	1.8%	2,569,630	2,999,987	16.7%	3,795,346	4,247,316	11.9%
WOBURN	2,960,077	2,670,355	-9.8%	9,578,547	9,931,347	3.7%	12,538,624	12,601,702	0.5%
TOTAL	\$180,249,266	\$179,090,225	-0.6%	\$360,569,734	\$382,340,775	6.0%	\$540,819,000	\$561,431,000	3.8%

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

APPENDIX D

ADDITIONAL 2009 DATA FOR MWRA COMMUNITIES

AVERAGE AGE OF COMMUNITY'S WATER METERS

No answer	2
1-5 years	9
6-10 years	19
11-15 years	13
15+ years	15
Invalid Data	2
Not applicable	0

USE OF MANUAL VERSUS AUTOMATED METER READING

No answer	2
Manual	6
Automated	39
Both	13
Invalid Data	0
Not applicable	0

PERCENTAGE OF WATER UNACCOUNTED FOR

No answer	2
0-5%	5
5-10%	21
10-20%	25
20+%	6
Invalid Data	1
Not applicable	0

PERCENTAGE OF WATER SERVICE BILLS LIENED

No answer	8
0-5%	34
5-10%	7
10-15%	8
15+%	2
Invalid Data	1
Not applicable	0

PERCENTAGE OF SEWER SERVICE BILLS LIENED

No answer	16
0-5%	24
5-10%	9
10-15%	8
15+%	2
Invalid Data	0
Not applicable	1

COMMUNITIES WITH SHORTFALLS DUE TO LOWER THAN PROJECTED WATER USE

No answer	10
Yes	30
No	20
Not applicable	0
Invalid Data	0
Not applicable	0

MWRA CHARGES AS A PERCENTAGE OF TOTAL EXPENSES

No answer	12
0-25%	10
25-50%	5
50-75%	25
75+%	8
Not applicable	0

NUMBER OF MILES OF WATER PIPELINE REHABILITATED OR REPLACED IN FY08

No answer	8
Less than 1 mile	23
1-3 miles	21
3-6 miles	3
6+ miles	3
Invalid Data	2
Not applicable	0

NUMBER OF MILES OF SEWER PIPELINE REHABILITATED OR REPLACED IN FY08

No answer	12
Less than 1 mile	27
1-3 miles	13
3-6miles	4
6+ miles	3
Invalid Data	0
Not applicable	1

ACTUAL WATER AND SEWER CAPITAL NEEDS OVER NEXT FIVE YEARS

No answer	8
\$0-\$10 million	28
\$10-\$20 million	12
\$20-\$50 million	4
\$50+ million	8
Invalid Data	0
Not applicable	0

ANTICIPATED WATER AND SEWER CAPITAL SPENDING OVER NEXT FIVE YEARS

No answer	6
\$100K-\$1 million	4
\$1-\$5 million	23
\$5-\$10 million	15
\$10+ million	12
Invalid Data	0
Not applicable	0

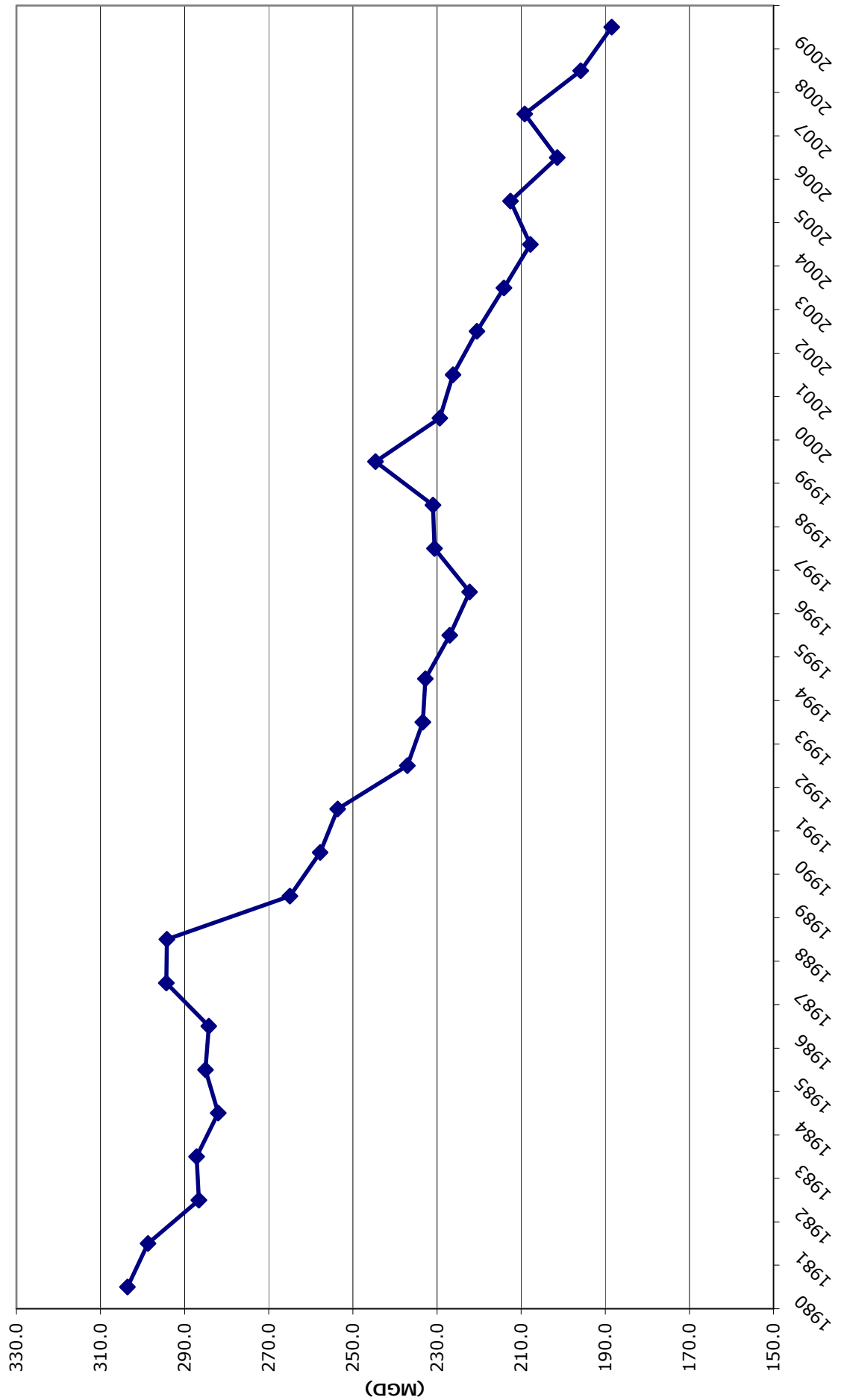
HOW COMMUNITIES RECOVER STORMWATER COSTS

No answer	2
W/S Rates	12
Spec'l Assmt	2
DPW Budget	35
Other	7
Invalid Data	1
Not applicable	1

APPENDIX E

MWRA Water System Sales 1980 - 2009

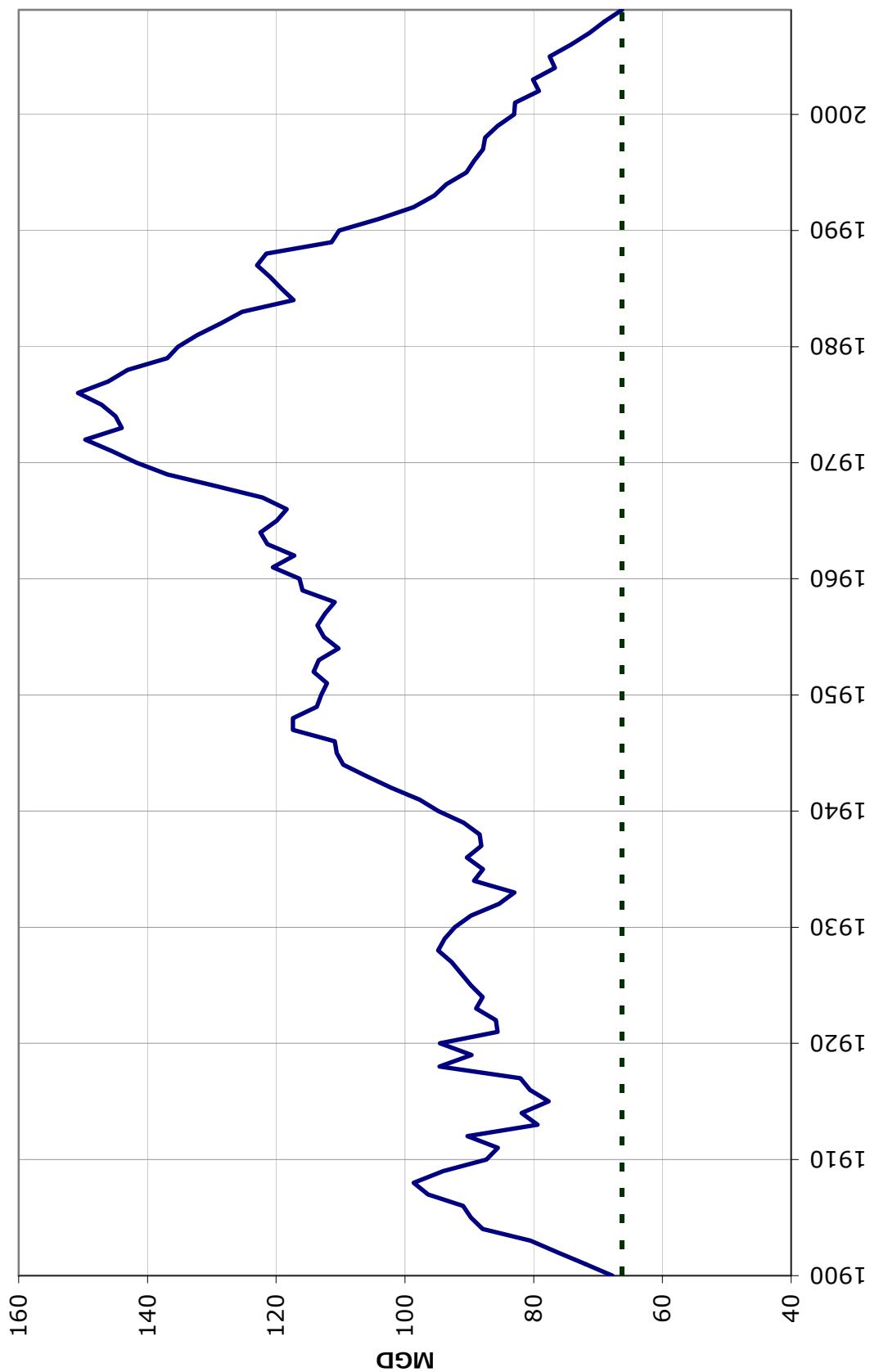
MWRA System Sales



APPENDIX F

City of Boston Historical Demand 1900 - 2009

City of Boston Historical Demand
1900 - 2009



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

Kevin Greeley
John Petrin
Mark Siegenthaler
Daniel C. Leclerc
Hon. Thomas Menino
Hon. Joseph C. Sullivan
Nancy Daly
Ralph C. Patuto
Hon. E. Denise Simmons
Gerald A. Salvatori, Jr.
Jay Ash
Hon. Michael Bissonnette
Kevin Haley
Mike Butler
Hon. Carlo DeMaria
Charles J. Sisitsky
John A. Riley
Robert A. Powilatis
Hon. Dean Mazzarella
Norman Cohen
Hon. Judith Flanagan Kennedy
Robert MacKendrick
Hon. Richard C. Howard
Jackie Belf-Becker
Hon. Nancy Stevens
Hon. Michael J. McGlynn
Hon. Robert J. Dolan
John M. Shields
Mark Cullinan
John Ciccariello
Dan Matthews
Hon. Setti D. Warren
Fran Bakstran
William J. Plasko
Hon. Michael J. Bonfanti
Hon. Thomas P. Koch
William Alexopoulos
Ben Tafoya
Hon. Thomas G. Ambrosino
Donald Wong
Hon. Joseph A. Curtatone
John R. Hine
Salvatore M. Giorlandino
John DePinto
Stephen Anastos
Eric A. Walker
John F. Carney
Christopher G. Timson
Hon. Jeannette A. McCarthy
Mark S. Sideris
Barbara Searle
Michael H. Harrity
Philip N. Shapiro
Hon. Susan M. Kay
David W. Barry
Michael Newhouse
Brian O'Connor
Jeffrey Rosario Turco
Hon. Scott Galvin
Hon. Joseph O'Brien

DESIGNEE

John F. Bean
Edward Maguire
Richard Warrington
Peter Castanino
John Sullivan, Jr.*
Greg Riley
Charles Barry
John Sanchez*
Timothy MacDonald*
Edward Sullivan*
Andrew DeSantis *
Alan Starczyk

David Field
Jon E. Norton
Peter Sellers
Edmund Demko/Michael Salerno
Thomas Cummings

William Hadley*
Jay Fink*
Bruce Kenerson
John Russell
Dana Snow
Doran Crouse
Cassandra Koutalidis

Katherine Haynes Dunphy**

Winfield A. Peterson*
John Cosgrove/Robert Lewis
Lou Taverna*
Kara Buzanoski/John L. Meader
Bernard Cooper*
Peter Smyrniotis
Brian Carlisle*
Paul J. Connors/William Alexopoulos
Jeffrey Zager*
Sam MacDonald/Donald Goodwin
Joseph Attubato
Carol Antonelli*
John Mikuszewski
Karen Galligan
John DeAmicis*
Ana Singleton
Gino A. Cresta, Jr.
Richard Stinson
Patrick Fasanello

Gerald Mee
Walter Woods*
Earl J. Forman
Robert Angelo/J. Timothy Walsh
Michael L.J. Chiasson
Zigmund A. Peret*
Michael Woods
Stephen Swymer

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

