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MWRA Advisory Board

***Annual Water & Sewer  
Retail Rate Survey***

November 2001

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



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### **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.mwra.state.ma.us/advbd/html/hpadbd.htm>**

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# **MWRA Advisory Board**

**ANNUAL WATER & SEWER RETAIL RATE SURVEY**

**NOVEMBER 2001**

*Joseph E. Favaloro*  
**Executive Director**

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## Introduction

This is the fifteenth "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.

For the past several years the Rate Survey has been 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 e-mail us at [mwra\\_ab@mwra.state.ma.us](mailto:mwra_ab@mwra.state.ma.us) with your feedback.

## Average Water and Sewer Rates

The water and sewer rates cited on the following pages for average annual household use are based on the industry standard of 120 hundred cubic feet (HCF), or approximately 90,000 gallons. Actual usage per household will vary.

In recognition of this variability, Appendix C provides a comparative assessment of actual costs for water and sewer retail customers. These water and sewer charges are prorated based on 1990 and 2000 United States Census information and 1999/2000 domestic water usage by community, provided by local water departments to the Massachusetts Department of Environmental Protection. Readers should keep in context that the 120 HCF benchmark utilized to calculate average household rates is intended to allow for equitable rate comparisons between municipalities. By including the information within Appendix C, the Advisory Board's intent is to provide a balanced depiction of the various means by which retail water and sewer rates can be calculated.

## 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 is comprised of 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.

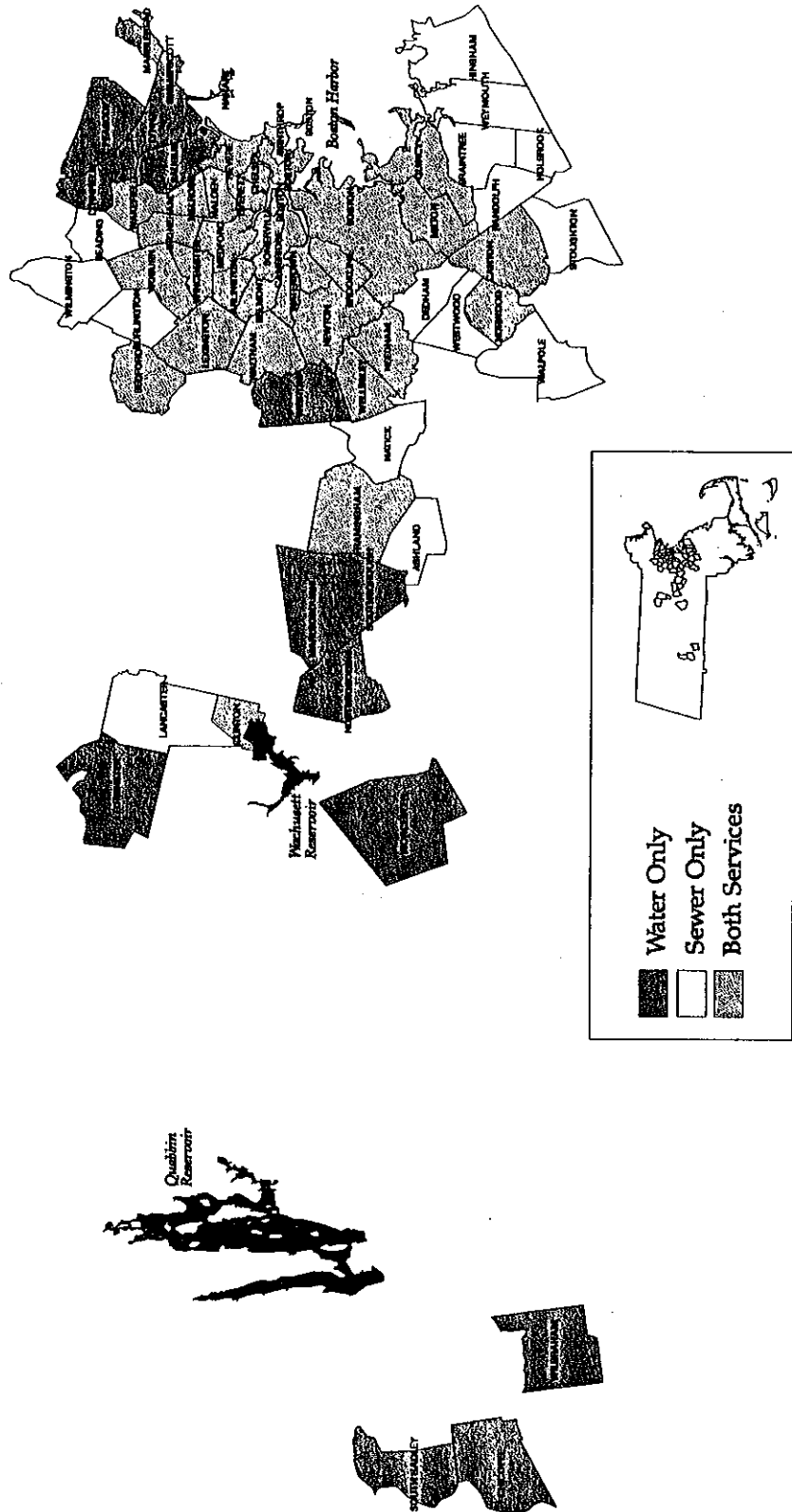
The Massachusetts Legislature has delegated specific responsibilities to the Advisory Board who in turn monitor the MWRA's programs from a ratepayer perspective.

- ♦ serving as a watchdog over the MWRA to ensure proper management and budgetary control;
- ♦ making recommendations on annual expense budgets, capital facility 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.

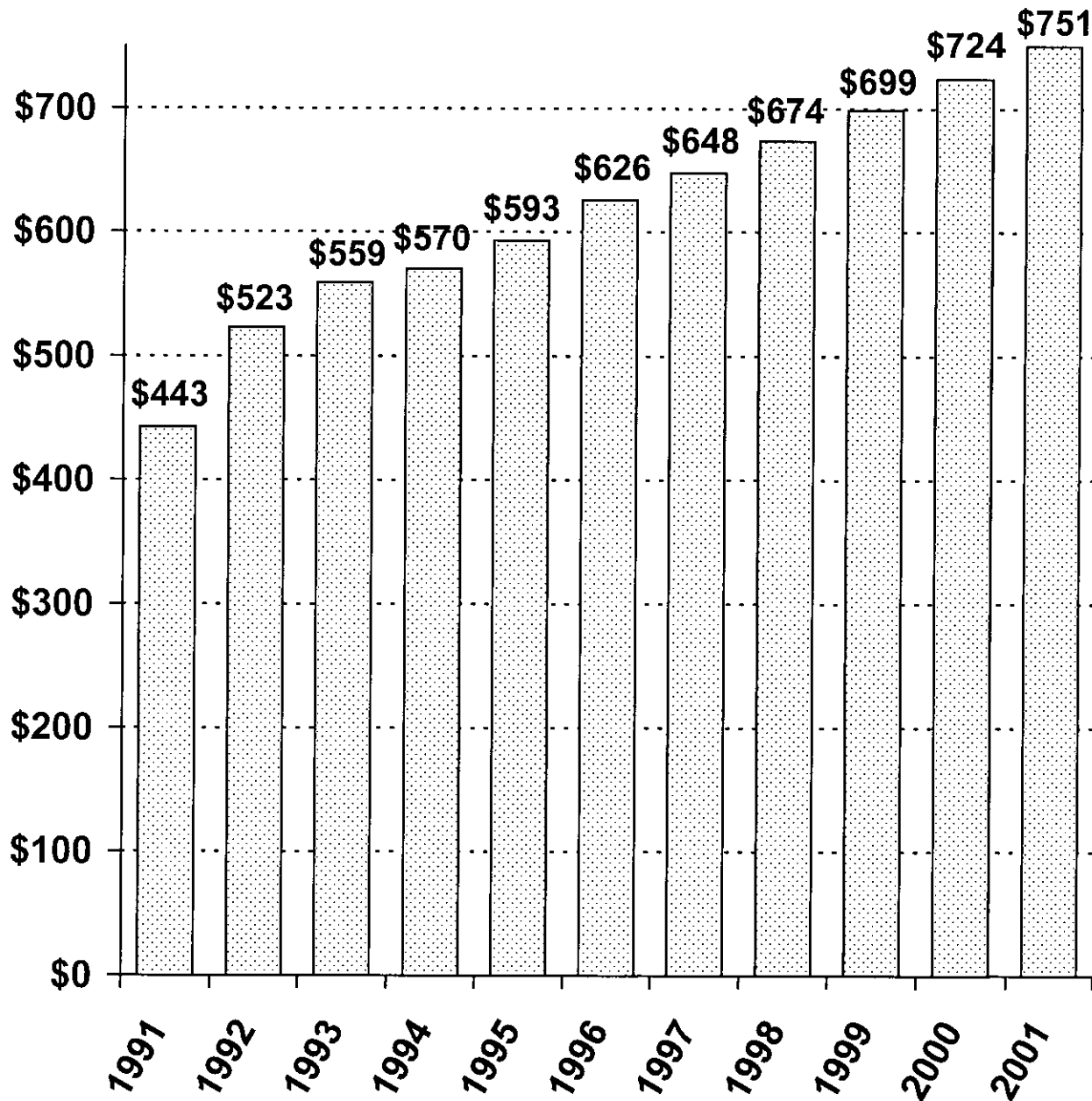
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# MWRA COMMUNITY 2001 WATER AND SEWER CHARGES

## MWRA SERVICE AREA

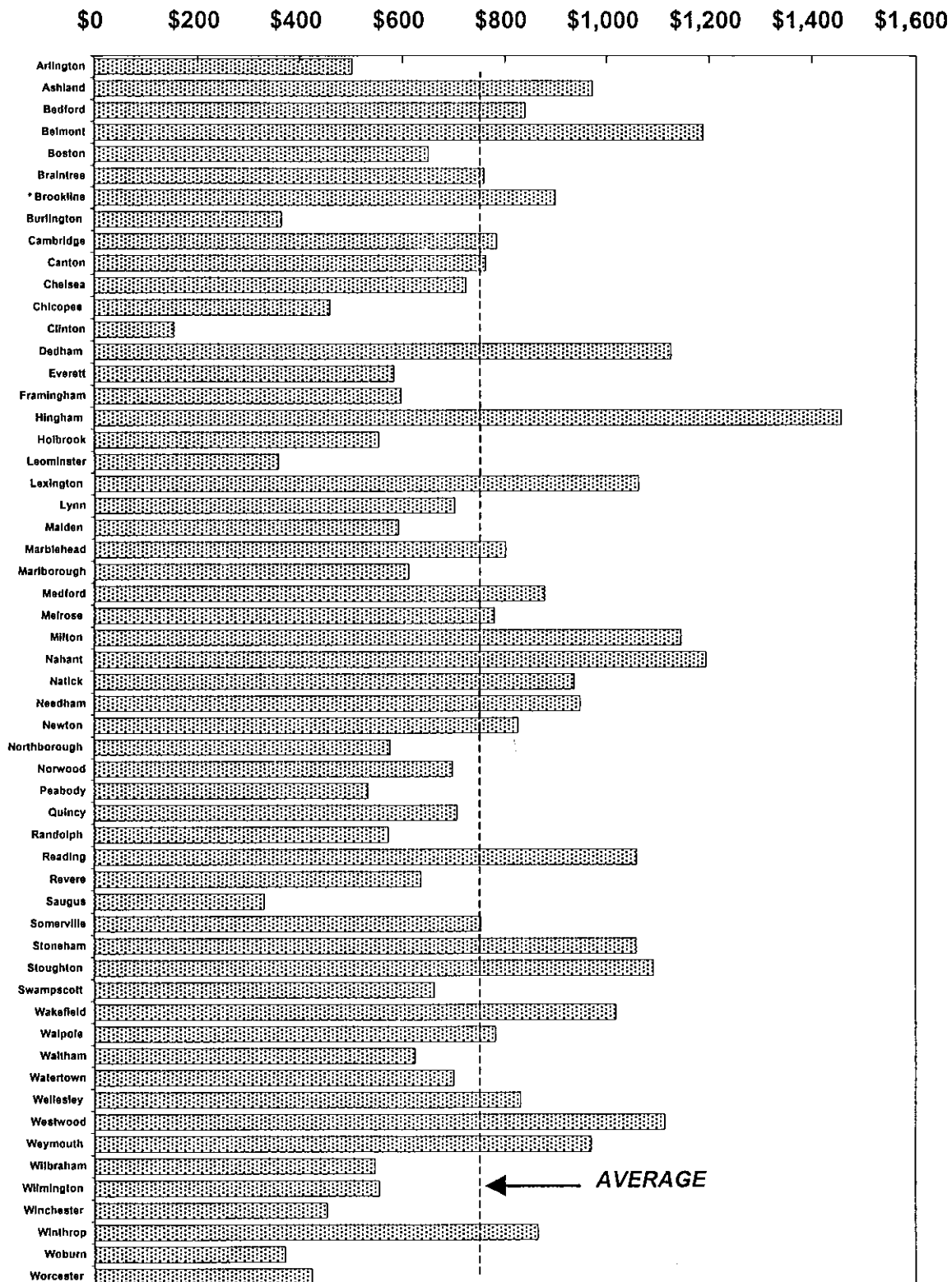


## Combined Annual Water & Sewer Charges in MWRA Communities 1991 - 2001



\*Charges are based on annual consumption of 12,000 cubic feet (approximately 90,000 gallons).

## 2001 COMBINED RETAIL WATER & SEWER RATES COMMUNITY CHARGE COMPARISONS



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

| <b>MWRA SYSTEMWIDE SUMMARY DATA</b>                       |                 |                 |
|---|-----------------|-----------------|
| <b>2001</b>   |                 |                 |
|   | <b>2000</b>     | <b>2001</b>     |
| <b>Avg. combined water and sewer cost</b>                 | <b>\$724.36</b> | <b>\$751.41</b> |
| <b>Percent change from prior year</b>                     | <b>3.6%</b>     | <b>3.7%</b>     |
| <b><u>WATER BILLING FREQUENCY</u></b>                     |                 |                 |
| <b>Semi-Annual</b>  | <b>18</b>       | <b>17</b>       |
| <b>Tri-Annual</b>   | <b>1</b>        | <b>1</b>        |
| <b>Quarterly</b>  | <b>37</b>       | <b>38</b>       |
| <b>Bi-Monthly</b>   | <b>2</b>        | <b>1</b>        |
| <b>Monthly</b>  | <b>2</b>        | <b>3</b>        |
| <b><u>WATER RATE STRUCTURE</u></b>                        |                 |                 |
| <b>Ascending Block with Base Charge</b>                   | <b>15</b>       | <b>18</b>       |
| <b>Ascending Block only</b>                               | <b>18</b>       | <b>15</b>       |
| <b>Flat Rate with Base Charge</b>                         | <b>7</b>        | <b>8</b>        |
| <b>Flat Rate only</b>                                     | <b>19</b>       | <b>18</b>       |
| <b>Fixed Fee</b>  | <b>1</b>        | <b>1</b>        |
| <b><u>ELDERLY/LOW-INCOME DISCOUNTS</u></b>                |                 |                 |
| <b>Yes</b>  | <b>21</b>       | <b>21</b>       |
| <b>No (or n/a)</b>  | <b>39</b>       | <b>39</b>       |
| <b><u>DEBT SERVICE EXCLUSION</u></b>                      |                 |                 |
|   | <b>2</b>        | <b>2</b>        |
| <b><u>CHANGES IN COMBINED WATER AND SEWER CHARGES</u></b> |                 |                 |
| <b>Decrease</b>   | <b>5</b>        | <b>2</b>        |
| <b>No change</b>  | <b>23</b>       | <b>20</b>       |
| <b>0% to 10% increase</b>                                 | <b>26</b>       | <b>33</b>       |
| <b>10% to 20% increase</b>                                | <b>5</b>        | <b>5</b>        |
| <b>20% to 30% increase</b>                                | <b>0</b>        | <b>0</b>        |
| <b>30% to 40% increase</b>                                | <b>1</b>        | <b>0</b>        |
| <b>40% to 50% increase</b>                                | <b>0</b>        | <b>0</b>        |
| <b>Greater than 50% increase</b>                          | <b>0</b>        | <b>0</b>        |

**ANNUAL WATER AND SEWER CHARGES IN  
COMMUNITIES RECEIVING SERVICES FROM THE MWRA  
2001**

|   | Water           | Sewer           |
|---|-----------------|-----------------|
| Arlington (W/S)*  | \$261.80        | \$240.00        |
| Ashland (S)   | -               | 678.00          |
| Bedford (S/partial W)   | 331.00          | 509.00          |
| Belmont (W/S)   | 462.52          | 726.20          |
| Boston (W/S)  | 239.09          | 411.01          |
| Braintree (S)   | -               | 512.00          |
| Brookline (W/S)   | 408.00          | 492.00          |
| Burlington (S)  | -               | 261.20          |
| Cambridge (S/partial W)   | 283.20          | 500.40          |
| Canton (S/partial W)  | 246.00          | 516.80          |
| Chelsea (W/S)   | 240.00          | 483.60          |
| Chicopee (W)  | 224.00          | -               |
| Clinton (W/S)   | 87.60           | 65.70           |
| Dedham (S)  | -               | 646.80          |
| Everett (W/S)   | 156.00          | 426.00          |
| Framingham (W/S)  | 240.00          | 356.40          |
| Hingham (S)   | -               | 696.00          |
| Holbrook (S)  | -               | 384.00          |
| Leominster (partial W)  | 192.80          | -               |
| Lexington (W/S)   | 334.80          | 726.80          |
| Lynn (partial W)  | 265.30          | -               |
| Lynnfield (W)   | 264.00          | -               |
| Malden (W/S)  | 207.20          | 383.60          |
| Marblehead (W)  | 294.00          | -               |
| Marlborough (partial W)   | 328.80          | -               |
| Medford (W/S)   | 301.39          | 576.13          |
| Melrose (W/S)   | 259.20          | 519.48          |
| Milton (W/S)  | 350.40          | 793.92          |
| Nahant (W)  | 614.40          | -               |
| Natick (S)  | -               | 733.80          |
| Needham (S/partial W)   | 215.28          | 731.40          |
| Newton (W/S)  | 272.80          | 552.80          |
| Northborough (partial W)  | 249.00          | -               |
| Norwood (W/S)   | 237.60          | 459.36          |
| Peabody (partial W)   | 227.40          | -               |
| Quincy (W/S)  | 241.20          | 464.52          |
| Randolph (S)  | -               | 384.60          |
| Reading (S)   | -               | 618.00          |
| Revere (W/S)  | 180.00          | 454.80          |
| Saugus (W)  | 173.40          | -               |
| Somerville (W/S)  | 294.00          | 458.40          |
| South Hadley (W)  | 348.80          | -               |
| Southborough (W)  | 261.60          | -               |
| Stoneham (W/S)  | 330.00          | 726.00          |
| Stoughton (S)   | -               | 825.60          |
| Swampscott (W)  | 372.00          | -               |
| Wakefield (S/partial W)   | 312.00          | 704.00          |
| Walpole (S)   | -               | 466.37          |
| Waltham (W/S)   | 203.64          | 418.56          |
| Watertown (W/S)   | 217.10          | 481.20          |
| Wellesley (S/partial W)   | 283.80          | 546.00          |
| Weston (W)  | 142.70          | -               |
| Westwood (S)  | -               | 633.00          |
| Weymouth (S)  | -               | 689.20          |
| Wilbraham (W)   | 228.00          | -               |
| Wilmington (S)  | -               | 256.80          |
| Winchester (S/partial W)*   | 199.80          | 250.80          |
| Winthrop (W/S)  | 306.00          | 556.80          |
| Woburn (S/partial W)  | 136.00          | 234.00          |
| Worcester (partial W)   | 250.80          | -               |
| <b>AVERAGE</b>  | <b>\$266.84</b> | <b>\$512.07</b> |
| <b>Percent change</b>   | <b>5.3%</b>     | <b>3.5%</b>     |
| Water and Sewer Charges are based on an annual water consumption of 12,000 cubic feet (approximately 90,000 gallons). |                 |                 |
| *Arlington and Winchester utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).        |                 |                 |

## COMBINED ANNUAL WATER AND SEWER CHARGES IN MWRA COMMUNITIES 2001

(Charges include MWRA Community and alternatively supplied services)

|                           | Water           | Sewer           | Combined        | Change      |
|---------------------------|-----------------|-----------------|-----------------|-------------|
| Arlington (W/S)*          | \$261.80        | \$240.00        | \$501.80        | 0.0%        |
| Ashland (S)               | 294.00          | 678.00          | 972.00          | 9.8%        |
| Bedford (S/partial W)     | 331.00          | 509.00          | 840.00          | 4.5%        |
| Belmont (W/S)             | 462.52          | 726.20          | 1,188.72        | 10.9%       |
| Boston (W/S)              | 239.09          | 411.01          | 650.10          | 0.0%        |
| Braintree (S)             | 248.00          | 512.00          | 760.00          | 0.0%        |
| Brookline (W/S)           | 408.00          | 492.00          | 900.00          | 4.2%        |
| Burlington (S)            | 102.90          | 261.20          | 364.10          | 0.0%        |
| Cambridge (S/partial W)   | 283.20          | 500.40          | 783.60          | 10.1%       |
| Canton (S/partial W)      | 246.00          | 516.80          | 762.80          | 3.8%        |
| Chelsea (W/S)             | 240.00          | 483.60          | 723.60          | 0.0%        |
| Chicopee (W)              | 224.00          | 234.25          | 458.25          | 0.0%        |
| Clinton (W/S)             | 87.60           | 65.70           | 153.30          | 0.0%        |
| Dedham (S)                | 478.44          | 646.80          | 1,125.24        | 1.6%        |
| Everett (W/S)             | 156.00          | 426.00          | 582.00          | 0.0%        |
| Framingham (W/S)          | 240.00          | 356.40          | 596.40          | 4.2%        |
| Hingham (S)               | 761.76          | 696.00          | 1,457.76        | 6.2%        |
| Holbrook (S)              | 168.00          | 384.00          | 552.00          | 0.0%        |
| Leominster (partial W)    | 192.80          | 164.80          | 357.60          | 12.0%       |
| Lexington (W/S)           | 334.80          | 726.80          | 1,061.60        | 4.0%        |
| Lynn (partial W)          | 265.30          | 435.60          | 700.90          | -1.0%       |
| Malden (W/S)              | 207.20          | 383.60          | 590.80          | 5.3%        |
| Marblehead (W)            | 294.00          | 507.00          | 801.00          | 6.1%        |
| Marlborough (partial W)   | 328.80          | 282.00          | 610.80          | 0.0%        |
| Medford (W/S)             | 301.39          | 576.13          | 877.53          | 0.1%        |
| Melrose (W/S)             | 259.20          | 519.48          | 778.68          | 4.8%        |
| Milton (W/S)              | 350.40          | 793.92          | 1,144.32        | 5.8%        |
| Nahant (W)                | 614.40          | 578.40          | 1,192.80        | 0.0%        |
| Natick (S)                | 201.40          | 733.80          | 935.20          | 6.9%        |
| Needham (S/partial W)     | 215.28          | 731.40          | 946.68          | 7.5%        |
| Newton (W/S)              | 272.80          | 552.80          | 825.60          | 0.9%        |
| Northborough (partial W)  | 249.00          | 325.00          | 574.00          | 0.0%        |
| Norwood (W/S)             | 237.60          | 459.36          | 696.96          | 5.7%        |
| Peabody (partial W)       | 227.40          | 303.60          | 531.00          | 0.0%        |
| Quincy (W/S)              | 241.20          | 464.52          | 705.72          | 7.5%        |
| Randolph (S)              | 186.00          | 384.60          | 570.60          | 2.1%        |
| Reading (S)               | 439.20          | 618.00          | 1,057.20        | -2.4%       |
| Revere (W/S)              | 180.00          | 454.80          | 634.80          | 7.7%        |
| Saugus (W)                | 173.40          | 156.00          | 329.40          | 10.9%       |
| Somerville (W/S)          | 294.00          | 458.40          | 752.40          | 7.5%        |
| Stoneham (W/S)            | 330.00          | 726.00          | 1,056.00        | 6.7%        |
| Stoughton (S)             | 264.52          | 825.60          | 1,090.12        | 0.0%        |
| Swampscott (W)            | 372.00          | 288.00          | 660.00          | 10.7%       |
| Wakefield (S/partial W)   | 312.00          | 704.00          | 1,016.00        | 5.0%        |
| Walpole (S)               | 313.68          | 466.37          | 780.05          | 3.7%        |
| Waltham (W/S)             | 203.64          | 418.56          | 622.20          | 4.8%        |
| Watertown (W/S)           | 217.10          | 481.20          | 698.30          | 6.0%        |
| Wellesley (S/partial W)   | 283.80          | 546.00          | 829.80          | 2.5%        |
| Westwood (S)              | 478.44          | 633.00          | 1,111.44        | 5.6%        |
| Weymouth (S)              | 297.92          | 669.20          | 967.12          | 0.0%        |
| Wilbraham (W)             | 228.00          | 315.60          | 543.60          | 1.1%        |
| Wilmington (S)            | 295.20          | 256.80          | 552.00          | 9.5%        |
| Winchester (S/partial W)* | 199.80          | 250.80          | 450.60          | 0.0%        |
| Winthrop (W/S)            | 306.00          | 556.80          | 862.80          | 0.0%        |
| Woburn (S/partial W)      | 136.00          | 234.00          | 370.00          | 0.0%        |
| Worcester (partial W)     | 250.80          | 170.88          | 421.68          | 5.8%        |
| <b>AVERAGE</b>            | <b>\$281.91</b> | <b>\$469.50</b> | <b>\$751.41</b> | <b>3.7%</b> |

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

District #1, Southborough and Weston. \*Arlington and Winchester utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).

**Arlington (W/S)****Residential Water Rates:**

Last adjusted: July 1, 1994  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill \$16.90  
 First 20,000 CF \$ 1.90/HCF  
 Over 20,000 CF \$ 2.80 "

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 261.80 |
| Sewer                       | \$ 240.00 |
| Combined                    | \$ 501.80 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

**Residential Sewer Rates:**

Last adjusted: July 1, 1994  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

First 100,000 CF \$ 2.00/HCF  
 Over 100,000 CF \$ 4.00 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: n/a

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

**Ashland (S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: 2002  
 Fund: Enterprise

Base Charge per bill \$15.00  
 1 - 2,000 CF \$ 2.00/HCF  
 2,001 - 5,000 CF \$ 2.30 "  
 5,001 - 8,000 CF \$ 2.40 "  
 8,001 - 15,000 CF \$ 2.50 "  
 15,001 - 30,000 CF \$ 2.65 "

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 294.00 |
| Sewer                       | \$ 678.00 |
| Combined                    | \$ 972.00 |
| Percentage change from 2000 | 9.8%      |

**Commercial Water Rates:**

Same as residential

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: 2002  
 Fund: Enterprise

Base Charge per bill \$20.00  
 1 - 2,000 CF \$ 4.25/HCF  
 2,001 - 5,000 CF \$ 5.85 "  
 5,001 - 8,000 CF \$ 6.00 "  
 8,001 - 15,000 CF \$ 6.15 "  
 15,001 - 30,000 CF \$ 6.30 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes

- Ashland calculates their water and sewer bills via subtractive method. For example, the 120 HCF charge for water is calculated as follows: (base charge per bill) \$15 + (1 to 2,000 CF) 20 X \$2.00 = \$40.00 + (6,000 CF - 2,000 CF = 4,000 CF) 40 X \$2.30 = \$92.00 = (subtotal) \$147.00 (billing frequency is bi-annual) \$147.00 X 2 = (net annual charge per 120 HCF) \$294.00.
- Only 58% of Ashland's census population is sewered.

**Bedford (partial W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill: \$17.50  
 0 - 2,000 CF \$ 0.80/HCF  
 Over 2,001 CF \$ 3.30 "

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill: \$22.50  
 0 - 2,000 CF \$ 1.80/HCF  
 Over 2,001 CF \$ 4.90 "  
 Based on 100% of water usage.

Billing Frequency: Residential: Semi-Annual. Commercial: Monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 331.00 |
| Sewer                       | \$ 509.00 |
| Combined                    | \$ 840.00 |
| Percentage change from 2000 | 4.5%      |

**Commercial Water Rates:**

\$3.30/HCF plus \$17.50 Base Charge.

**Commercial Sewer Rates:**

\$4.90/HCF plus \$22.50 Base Charge.

Elderly and/or Lower Income Discounts: No

Only 81% of Bedford's census population is sewered

**Belmont (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Special Revenue

Base charge per bill \$12.13  
 All units \$ 3.45/HCF

**Residential Sewer Rates:**

Last adjusted: June 1, 2001  
 Next adjustment scheduled: June 1, 2002  
 Fund: General

Base Charge per bill \$ 4.25  
 All units \$ 5.91/HCF  
 Based on 100% of water usage.

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 462.52  |
| Sewer                       | \$ 726.20  |
| Combined                    | \$1,188.72 |
| Percentage change from 2000 | 10.9%      |

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, based on property tax discount eligibility.

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

**Residential Water Rates:**

Last adjusted: January 1, 1993  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

|                   |             |
|-------------------|-------------|
| First 19 CF/Daily | \$1.991/HCF |
| Next 20 CF        | \$1.994 "   |
| Next 50 CF        | \$1.999 "   |
| Next 70 CF        | \$2.003 "   |
| Next 190 CF       | \$2.010 "   |
| Next 250 CF       | \$2.012 "   |
| Next 700 CF       | \$2.019 "   |
| Next 1,700 CF     | \$2.023 "   |
| Next 3,000 CF     | \$2.028 "   |
| Over 5,999 CF     | \$2.032 "   |

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 239.09 |
| Sewer                       | \$ 411.01 |
| Combined                    | \$ 650.10 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: 25% Elderly/Disabled Discount on water charges only.

**Residential Sewer Rates:**

Last adjusted: January 1, 1993  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

|                   |             |
|-------------------|-------------|
| First 19 CF/Daily | \$3.409/HCF |
| Next 20 CF        | \$3.447 "   |
| Next 50 CF        | \$3.488 "   |
| Next 70 CF        | \$3.528 "   |
| Next 190 CF       | \$3.567 "   |
| Next 250 CF       | \$3.608 "   |
| Next 700 CF       | \$3.649 "   |
| Next 1,700 CF     | \$3.686 "   |
| Next 3,000 CF     | \$3.727 "   |
| Over 5,999 CF     | \$3.765 "   |

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Braintree (S)****Residential Water Rates:**

Last adjusted: October 1, 1996  
 Next adjustment scheduled: August 2001  
 Fund: Enterprise

Base charge per bill \$ 10.00  
 0-5/HCF \$ 1.40/HCF  
 6-35/HCF \$ 1.80/HCF  
 Over 35 HCF \$ 2.00/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 248.00 |
| Sewer                       | \$ 512.00 |
| Combined                    | \$ 760.00 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: October 1, 1996  
 Next adjustment scheduled: August 2001  
 Fund: Enterprise

Base charge per bill \$ 10.00  
 0-5/HCF \$ 3.60/HCF  
 6-35/HCF \$ 4.00/HCF  
 Over 35 HCF \$ 4.90/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Brookline (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

All units \$ 3.40/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 408.00 |
| Sewer                       | \$ 492.00 |
| Combined                    | \$ 900.00 |
| Percentage change from 2000 | 4.2%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

All units \$ 4.10/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Burlington (S)****Residential Water Rates:**

Last adjusted: July 1, 1992  
 Next adjustment scheduled: n/a  
 Fund: General

## Base charge per bill includes:

|                       |                   |
|-----------------------|-------------------|
| First 20,000 gals.    | \$18.80           |
| 20,001 - 30,000 gals. | \$ 1.21/000 gals. |
| 30,001 - 50,000 gals. | \$ 1.37 "         |
| 50,001 - 70,000 gals. | \$ 1.68 "         |
| 70,001 - 90,000 gals. | \$ 2.00 "         |
| Over 90,001 gals.     | \$ 2.35 "         |

**Residential Sewer Rates:**

Last adjusted: July 1, 1992  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

## Base charge per bill includes:

|                       |                   |
|-----------------------|-------------------|
| First 20,000 gals.    | \$37.60           |
| 20,001 - 30,000 gals. | \$ 3.45/000 gals. |
| 30,001 - 50,000 gals. | \$ 3.90 "         |
| 50,001 - 70,000 gals. | \$ 4.80 "         |
| Over 70,001 gals.     | \$ 5.70 "         |

Based on 100% of water usage.

Billing Frequency: Residential: Semi-Annual. Commercial: Quarterly.

## Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 102.90 |
| Sewer                       | \$ 261.20 |
| Combined                    | \$ 364.10 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

## Base charge per bill includes:

|                       |                   |
|-----------------------|-------------------|
| First 10,000 gals.    | \$ 9.40           |
| 10,001 - 15,000 gals. | \$ 1.26/000 gals. |
| 15,001 - 35,000 gals. | \$ 1.37 "         |
| Over 35,001 gals.     | \$ 1.89 "         |

**Commercial Sewer Rates:**

## Base charge per bill includes:

|                       |                   |
|-----------------------|-------------------|
| First 10,000 gals.    | \$18.80           |
| 10,001 - 15,000 gals. | \$ 3.60/000 gals. |
| 15,001 - 35,000 gals. | \$ 3.90 "         |
| Over 35,001 gals.     | \$ 5.40 "         |

Elderly and/or Lower Income Discounts: No

**Cambridge (partial W/S)****Residential Water Rates:**

Last adjusted: April 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                    |             |
|--------------------|-------------|
| 0 - 40 HCF         | \$ 2.36/HCF |
| 41 - 400 HCF       | \$ 2.55 "   |
| 401 - 2,000 HCF    | \$ 2.69 "   |
| 2,001 - 10,000 HCF | \$ 2.87 "   |
| Over 10,000 HCF    | \$ 3.10 "   |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 283.20 |
| Sewer                       | \$ 500.40 |
| Combined                    | \$ 783.60 |
| Percentage change from 2000 | 10.1%     |

**Commercial Water Rates:**

Same as residential

**Residential Sewer Rates:**

Last adjusted: April 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

|                    |             |
|--------------------|-------------|
| 0 - 40 HCF         | \$ 4.17/HCF |
| 41 - 400 HCF       | \$ 4.42 "   |
| 401 - 2,000 HCF    | \$ 4.75 "   |
| 2,001 - 10,000 HCF | \$ 5.12 "   |
| Over 10,000 HCF    | \$ 5.43 "   |

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, residents over 65 who own/occupy their own home are eligible for a 10% discount on water/sewer bills, depending on certain conditions.

**Canton (partial W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|             |             |
|-------------|-------------|
| 0 - 20 HCF  | \$ 1.60/HCF |
| 21 - 40 HCF | \$ 2.95 "   |
| 41 - 60 HCF | \$ 4.43 "   |
| Over 60 HCF | \$ 5.14 "   |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 246.00 |
| Sewer                       | \$ 516.80 |
| Combined                    | \$ 762.80 |
| Percentage change from 2000 | 3.8%      |

**Commercial Water Rates:**

|              |             |
|--------------|-------------|
| 0 - 400 HCF  | \$ 3.63/HCF |
| Over 400 HCF | \$ 5.41/HCF |

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|             |             |
|-------------|-------------|
| 0 - 20 HCF  | \$ 4.15/HCF |
| 21 - 40 HCF | \$ 4.62 "   |
| 41 - 60 HCF | \$ 5.55 "   |
| Over 60 HCF | \$ 6.90 "   |

Based on 100% of water usage.

**Commercial Sewer Rates:**

|              |             |
|--------------|-------------|
| 0 - 400 HCF  | \$ 5.60/HCF |
| Over 400 HCF | \$ 9.19/HCF |

Elderly and/or Lower Income Discounts: No

Only 73% of the Canton census population is sewered.

**Chelsea (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

All units \$ 2.00/HCF

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 240.00 |
| Sewer                       | \$ 483.60 |
| Combined                    | \$ 723.60 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

All units \$ 4.03/HCF

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Chicopee (W)****Residential Water Rates:**

Last adjusted: April 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge per bill includes:

|                                |             |
|--------------------------------|-------------|
| Meter Rental Charge 5/8" Meter | \$ 2.00     |
| Min Charge 1,000 CF or less    | \$ 18.00    |
| Over 1,000 CF                  | \$ 1.80/HCF |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 224.00 |
| Sewer                       | \$ 234.25 |
| Combined                    | \$ 458.25 |
| Percentage change from 2000 | 0.0%      |

**Commercial/Industrial Water Rates:**

Accounts with consumption in excess of 1.2 million CF/YR \$ 0.75/HCF

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue (Sewer Use Fee)

Base Minimum Charge: \$10.00

All units \$ 1.75/HCF

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

**Commercial/Industrial Sewer Rates:**

Same as residential

**Clinton (W/S)****Residential Water Rates:**

Last adjusted: July 1, 1990  
 Next adjustment scheduled: 2001  
 Fund: Enterprise

All units \$ 0.73/HCF

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 87.60  |
| Sewer                       | \$ 65.70  |
| Combined                    | \$ 153.30 |
| Percentage change from 2000 | 0.0%      |

**Residential Sewer Rates:**

Last adjusted: July 1, 1990  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Sewer bill is 75% of water bill

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Commercial Sewer Rates:**

Same as residential

**Dedham (S)****Residential Water Rates:**

Last adjusted: April 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill includes:  
 First 500 CF \$ 29.61  
 Over 500 CF \$ 3.60/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 478.44  |
| Sewer                       | \$ 646.80  |
| Combined                    | \$1,125.24 |
| Percentage change from 2000 | 1.6%       |

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: September 2001  
 Fund: General

All units \$ 5.39/HCF  
 Based on 100% of water usage.

**Commercial Water Rates:**

Minimum charge 5/8" meter  
 with 900 CF allowance \$ 45.48

Minimum charge 3/4" meter  
 with 1,500 CF allowance \$ 73.59

Minimum charge 1" meter  
 with 2,400 CF allowance \$ 119.07

Minimum charge 1 1/2" meter  
 with 4,800 CF allowance \$ 238.11

**Commercial Sewer Rates:**

All units \$ 5.39/HCF  
 Based on 100% of water usage.

**(Dedham Continued)**

|   |             |
|---|-------------|
| Minimum charge 2" meter<br>with 7,500 CF allowance  | \$ 374.49   |
| Minimum charge 3" meter<br>with 15,000 CF allowance | \$ 735.93   |
| Minimum charge 4" meter<br>with 24,000 CF allowance | \$ 1,190.13 |
| Minimum charge 6" meter<br>with 48,000 CF allowance | \$ 2,381.19 |
| Minimum charge 8" meter<br>with 96,000 CF allowance | \$ 4,499.97 |
| All units in excess of<br>allowance                 | \$ 3.60/HCF |

Elderly and/or Lower Income Discounts: No

The 2000 Rates Survey incorrectly reflected Dedham's sewer rate at 60% of water usage. Dedham's sewer rates have been revised for the 2000 (see Appendix A) and 2001 surveys to depict the accurate rate at 100% water usage.

**Everett (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2000  
Next adjustment scheduled: n/a  
Fund: General

|            |             |
|------------|-------------|
| 0-30 HCF   | \$ 1.30/HCF |
| 31-60 HCF  | \$ 1.55 "   |
| 61-100 HCF | \$ 1.85"    |
| Balance    | \$ 2.10"    |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 156.00 |
| Sewer                       | \$ 426.00 |
| Combined                    | \$ 582.00 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, 15% on water.

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
Next adjustment scheduled: n/a  
Fund: General

|            |             |
|------------|-------------|
| 0-30 HCF   | \$ 3.55/HCF |
| 31-60 HCF  | \$ 4.39 "   |
| 61-100 HCF | \$ 5.00"    |
| Balance    | \$ 5.55"    |

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Framingham (W/S)****Residential Water Rates:**

Last adjusted: June 28, 2001  
 Next adjustment scheduled: June 2002  
 Fund: Enterprise

1 - 156 HCF \$ 2.00/HCF  
 157 - 3,000 \$ 2.58 "  
 Over 3,001 \$ 2.93 "

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 240.00 |
| Sewer                       | \$ 356.40 |
| Combined                    | \$ 596.40 |
| Percentage change from 2000 | 4.2%      |

**Residential Sewer Rates:**

Last adjusted: June 28, 2001  
 Next adjustment scheduled: June 2002  
 Fund: Enterprise

1 - 156 HCF \$ 2.97/HCF  
 157 - 3,000 \$ 4.64 "  
 Over 3,001 \$ 6.08 "  
 Based on 100% of water usage.

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes.

**Commercial Sewer Rates:**

Same as residential

**Hingham (S)****Residential Water Rates:**

Last adjusted: May 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Private Company

Base charge per bill \$ 80.10  
 0 - 36 HCF \$ 2.085/HCF  
 37 - 839 HCF \$ 1.5375/HCF  
 Over 839 HCF \$ 1.0688/HCF  
 Consumption charge for water  
 treatment facility lease 1/HCF \$ .845/HCF  
 Consumption charge for water  
 treatment O & M 1/HCF \$ .748/HCF

Billing Frequency: Water: Quarterly. Sewer: Semi-Annual.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 761.76   |
| Sewer                       | \$ 696.00   |
| Combined                    | \$ 1,457.76 |
| Percentage change from 2000 | 6.2%        |

**Residential Sewer Rates:**

Last adjusted: May 1, 2001  
 Next adjustment scheduled: May 1, 2002  
 Fund: Special Revenue

All units \$ 5.80/HCF  
 Based on 100% of water usage.

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: n/a

- Of Hingham's census population, only 31% utilize local sewers receiving MWRA wholesale sewer service.
- Hingham's water services are provided by the Massachusetts-American Water Company.

**Holbrook (S)****Residential Water Rates:**

Last adjusted: October 1, 1995  
 Next adjustment scheduled: October 2001  
 Fund: n/a

All units \$ 1.40/HCF  
 Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 168.00 |
| Sewer                       | \$ 384.00 |
| Combined                    | \$ 552.00 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

All units \$ 1.45/HCF

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: October 1, 1996  
 Next adjustment scheduled: October 2001  
 Fund: General

All Units \$ 3.20/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

All units \$ 3.30/HCF

Only 58.5% of the Holbrook census population is sewered

**Leominster (partial W)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 2002  
 Fund: Special Revenue

Base Charge per bill includes:  
 First 6 HCF \$ 11.00  
 Over 6 HCF \$ 1.55/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 192.80 |
| Sewer                       | \$ 164.80 |
| Combined                    | \$ 357.60 |
| Percentage change from 2000 | 12.0%     |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: n/a

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 2002  
 Fund: Special Revenue

Base Charge per bill includes:  
 First 6 HCF \$ 10.00  
 Over 6 HCF \$ 1.30/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Lexington (W/S)****Residential Water Rates:**

|                            |             |
|----------------------------|-------------|
| Last adjusted:             | July, 2001  |
| Next adjustment scheduled: | July, 2002  |
| Fund:                      | Enterprise  |
| First 20 HCF               | \$ 2.03/HCF |
| 21 - 40 HCF                | \$ 2.82 "   |
| 41 - 80 HCF                | \$ 3.52 "   |
| Over 81 HCF                | \$ 4.60 "   |
| Billing Frequency:         | Semi-Annual |

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 334.80  |
| Sewer                       | \$ 726.80  |
| Combined                    | \$1,061.60 |
| Percentage change from 2000 | 4.0%       |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, (30%) for customers that qualify for fuel assistance.

**Residential Sewer Rates:**

|                               |             |
|-------------------------------|-------------|
| Last adjusted:                | July, 2001  |
| Next adjustment scheduled:    | July, 2002  |
| Fund:                         | Enterprise  |
| First 20 HCF                  | \$ 4.66/HCF |
| 21 - 40 HCF                   | \$ 5.76 "   |
| 41 - 80 HCF                   | \$ 7.75 "   |
| Over 81 HCF                   | \$12.51"    |
| Based on 100% of water usage. |             |

**Commercial Sewer Rates:**

Same as residential

**Lynn (partial W)****Residential Water Rates:**

|                            |              |
|----------------------------|--------------|
| Last adjusted:             | July 1, 2001 |
| Next adjustment scheduled: | July 1, 2002 |
| Fund:                      | Enterprise   |
| 0 - 2,740 CF               | \$ 2.21/HCF  |
| 2,741 - 7,305 CF           | \$ 2.22 "    |
| 7,306 - 281,245 CF         | \$ 2.23 "    |
| Over 281,246 CF            | \$ 2.24 "    |
| Billing Frequency:         | Quarterly    |

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 265.30 |
| Sewer                       | \$ 435.60 |
| Combined                    | \$ 700.90 |
| Percentage change from 2000 | -1.0%     |

**Commercial Water Rates:**

Same as residential

Elderly and Disabled Discounts: Yes, for owner occupied discounts on water service for widows and widowers, elderly and fully disabled. Single family 15%, two family 7.5% and three family 5%.

**Residential Sewer Rates:**

|                               |              |
|-------------------------------|--------------|
| Last adjusted:                | July 1, 2001 |
| Next adjustment scheduled:    | July 1, 2002 |
| Fund:                         | Enterprise   |
| 0 - 2,740 CF                  | \$ 3.63/HCF  |
| 2,741 - 7,305 CF              | \$ 3.64 "    |
| 7,306 - 281,245 CF            | \$ 3.65 "    |
| Over 281,246 CF               | \$ 3.66 "    |
| Based on 100% of water usage. |              |

**Commercial Sewer Rates:**

Same as residential

**Lynnfield - Lynnfield Water District (W)****Residential Water Rates:**

Last adjusted: May 14, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

**Base charge per bill includes:**

First 2,000 CF \$ 50.00  
 2,001 - 10,000 CF \$ 2.05/HCF  
 Over 10,000 CF \$ 2.24 "

Billing Frequency: Residential: Semi-Annual. Commercial: Quarterly.

**Annual cost per 120 HCF (≈ 90,000 gallons):**

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 264.00   |
| Sewer                       | not sewered |
| Combined                    | \$ 264.00   |
| Percentage change from 2000 | 7.8%        |

**Commercial Water Rates:****Base charge per quarterly bill includes:**

First 1,000 CF \$ 25.00/HCF  
 1,001 - 5,000 CF \$ 2.05 "  
 Over 5,000 CF \$ 2.24 "

Elderly and/or Lower Income Discounts: Lynnfield has a 10% discount for water for everyone if bill is paid within 20 days.

**Residential Sewer Rates:**

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

Community not sewered

**Commercial Sewer Rates:**

n/a

**Malden (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

**Base charge per bill includes:**

First 500 CF \$ 7.50  
 501 - 2,500 CF \$ 1.53/HCF  
 2,501 - 37,500 CF \$ 2.74 "  
 Over 37,500 CF \$ 3.46 "

Billing Frequency: Quarterly

**Annual cost per 120 HCF (≈ 90,000 gallons):**

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 207.20 |
| Sewer                       | \$ 383.60 |
| Combined                    | \$ 590.80 |
| Percentage change from 2000 | 5.3%      |

**Commercial Water Rates:**

n/a

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

**Base charge per bill includes:**

First 500 CF \$ 7.50  
 501 - 2,500 CF \$ 3.11/HCF  
 2,501 - 37,500 CF \$ 5.24 "  
 Over 37,500 CF \$ 5.78 "

Based on 100% of water usage.

**Commercial Sewer Rates:**

n/a

Elderly and/or Lower Income Discounts: n/a

(W/S) = MWRA Water and Sewer (W) = MWRA Water Only (S) = MWRA Sewer Only

CF = Cubic Foot HCF = Hundred Cubic Feet 1 HCF = 100 Cubic Feet = 748 Gallons n/a = No Answer

**Marblehead (W)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 2, 2002  
 Fund: Enterprise

Base charge per quarter \$ 7.50  
 First 3,000 CF \$ 2.20/HCF  
 Over 3,000 CF \$ 2.50 "

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 294.00 |
| Sewer                       | \$ 507.00 |
| Combined                    | \$ 801.00 |
| Percentage change from 2000 | 6.1%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

Base charge per quarter \$ 3.75  
 First 3,000 CF \$ 4.10/HCF  
 Over 3,000 CF \$ 4.40 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

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

**Marlborough (partial W)****Residential Water Rates:**

Last adjusted: January, 2000  
 Next adjustment scheduled: Fall, 2001  
 Fund: Enterprise

All units \$ 2.74/HCF

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

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 328.80 |
| Sewer                       | \$ 282.00 |
| Combined                    | \$ 610.80 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: January, 2000  
 Next adjustment scheduled: Fall, 2001  
 Fund: Enterprise

All units \$ 2.35/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Medford (W/S)****Residential Water Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 2.512/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 301.39 |
| Sewer                       | \$ 576.13 |
| Combined                    | \$ 877.52 |
| Percentage change from 2000 | 0.1%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes

**Residential Sewer Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 4.801/HCF

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Melrose (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 2.16/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 259.20 |
| Sewer                       | \$ 519.48 |
| Combined                    | \$ 778.68 |
| Percentage change from 2000 | 4.8%      |

**Commercial Water Rates:**

All units \$ 2.68/HCF

Elderly and/or Lower Income Discounts: Yes, 20% discount on water and sewer.

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 4.81/HCF

Based on 90% of water usage. If second meter is installed, then based on 100% of primary meter.

**Commercial Sewer Rates:**

All units \$ 4.81/HCF

**Milton (W/S)****Residential Water Rates:**

Last adjusted: August 15, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge per bill includes:  
 From 0 - 6 HCF \$ 12.00  
 Over 6 HCF \$ 3.15/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 350.40  |
| Sewer                       | \$ 793.92  |
| Combined                    | \$1,144.32 |
| Percentage change from 2000 | 5.8%       |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: August 15, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge per bill includes:  
 From 0 - 6 HCF \$ 12.00  
 Over 6 HCF \$ 7.77/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Nahant (W)****Residential Water Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 5.12/HCF

Billing Frequency: Tri-Annual

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 614.40   |
| Sewer                       | \$ 578.40   |
| Combined                    | \$ 1,192.80 |
| Percentage change from 2000 | 0.0%        |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 4.82/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

Nahant receives wholesale wastewater services from the Lynn Water and Sewer Commission.

**Natick (S)****Residential Water Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

0-7 HCF \$ 5.35/HCF  
 8-20 HCF \$ 1.50/HCF  
 21-100 HCF \$ 2.55/HCF  
 Balance \$ 3.10/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 201.40 |
| Sewer                       | \$ 733.80 |
| Combined                    | \$ 935.20 |
| Percentage change from 2000 | 6.9%      |

**Residential Sewer Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

0-7 HCF \$ 24.75/HCF  
 Balance \$ 6.90/HCF  
 Based on 100% water usage.

**Commercial Water Rates:**

Same as residential.

**Commercial Sewer Rates:**

Same as residential.

Elderly and/or Lower Income Discounts: Yes, elderly discount will not be charged for the first seven HCF in a quarter. The rate for all other usage will be discounted by 25%.

- Only 82% of Natick's census population is sewered.
- The 2000 Rates Survey should have listed the Natick minimum sewer charge as \$23.10 for the first 7 HCF. The 2000 sewer charge has subsequently been adjusted (see Appendix A).

**Needham (S/partial W)****Residential Water Rates:**

Last adjusted: October 1, 2000  
 Next adjustment scheduled: October 1, 2001  
 Fund: Enterprise

1-12 HCF \$ 1.50/HCF  
 12.01-30 HCF \$ 1.99/ "  
 30.01-50 HCF \$ 2.41/ "  
 Over 50 HCF \$ 2.94/ "

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 215.28 |
| Sewer                       | \$ 731.40 |
| Combined                    | \$ 946.68 |
| Percentage change from 2000 | 7.5%      |

**Residential Sewer Rates:**

Last adjusted: March 13, 2001  
 Next adjustment scheduled: October 1, 2001  
 Fund: Enterprise

1-15 HCF \$ 5.62/HCF  
 15.01-30 HCF \$ 6.57/ "  
 30.01-50 HCF \$ 7.74/ "  
 Over 50 HCF \$ 8.54/ "  
 Based on 100% of water usage.

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: n/a

- Only 93% of Needham's census population is sewered.

(W/S) = MWRA Water and Sewer (W) = MWRA Water Only (S) = MWRA Sewer Only

CF = Cubic Foot HCF = Hundred Cubic Feet 1 HCF = 100 Cubic Feet = 748 Gallons n/a = No Answer

**Newton (W/S)****Residential Water Rates:**

Last adjusted: July 10, 2001  
 Next adjustment scheduled: 2002  
 Fund: Special Revenue

First 20 HCF \$ 2.13/HCF  
 21 - 70 HCF \$ 2.56 "  
 Over 70 HCF \$ 3.07 "

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 272.80 |
| Sewer                       | \$ 552.80 |
| Combined                    | \$ 825.60 |
| Percentage change from 2000 | 0.9%      |

**Residential Sewer Rates:**

Last adjusted: July 10, 2001  
 Next adjustment scheduled: 2002  
 Fund: Special Revenue

First 20 HCF \$ 4.32/HCF  
 21 - 70 HCF \$ 5.18  
 Over 70 HCF \$ 6.22 "  
 Based on 100% of water usage.

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, 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.

**Northborough (partial W)****Residential Water Rates:**

Last adjusted: May, 1999  
 Next adjustment scheduled: May, 2002  
 Fund: Enterprise

0-40 HCF \$ 2.050/HCF  
 41-120 HCF \$ 2.125 "  
 Over 120 HCF \$ 2.200 "

Billing Frequency: Semi-Annual

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 249.00 |
| Sewer                       | \$ 325.00 |
| Combined                    | \$ 574.00 |
| Percentage change from 2000 | 0.0%      |

**Residential Sewer Rates:**

Last adjusted: May, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

0-40 HCF \$ 2.675/HCF  
 41-120 HCF \$ 2.775 "  
 Over 120 HCF \$ 2.900 "  
 Based on 100% of water usage.

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Norwood (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

First 1,000 CF \$ 1.60/HCF  
 Over 1,000 CF \$ 2.36 "

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

First 600 CF \$ 4.40/HCF  
 Over 600 CF \$ 8.36 "  
 Based on 60% of water usage.

Billing Frequency: Residential: Bi-Monthly (Approximately 600 residences utilizing AMR are billed monthly)  
 Commercial: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 237.60 |
| Sewer                       | \$ 459.36 |
| Combined                    | \$ 696.96 |
| Percentage change from 2000 | 5.7%      |

**Commercial Water Rates:**

First 500 CF \$ 1.60/HCF  
 Over 500 CF \$ 2.36 "  
 Billed on a monthly basis.

**Commercial Sewer Rates:**

First 300 CF \$ 4.40/HCF  
 Over 300 CF \$ 8.36 "  
 Based on 60% of water usage.  
 Billed on a monthly basis.

Elderly and/or Lower Income Discounts: No

**Peabody (partial W)****Residential Water Rates:**

Last adjusted: January 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: General

Minimum Charge: \$ 5.00/Qtr.  
 First 15 HCF \$ 1.81/HCF  
 Over 15 HCF \$ 1.98 "

**Residential Sewer Rates:**

Last adjusted: January 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: General

First 15 HCF \$ 2.41/HCF  
 Over 15 HCF \$ 2.65 "  
 Based on 100% of water usage.

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 227.40 |
| Sewer                       | \$ 303.60 |
| Combined                    | \$ 531.00 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

First 15 HCF \$ 2.07/HCF  
 Over 15 HCF \$ 2.27 "

**Commercial Sewer Rates:**

First 15 HCF \$ 2.78/HCF  
 Over 15 HCF \$ 3.07 "

Elderly and/or Lower Income Discounts: No

- Peabody receives wholesale wastewater service from the South Essex Sewerage District.
- The text of the 2000 Survey inaccurately reflects the over 15 HCF charges for both water and sewer rates. The over 15 HCF charge for water and sewer should have been reflected at \$1.98 and \$2.65 respectively. The annual cost per 120 HCF cited within the 2000 document, however, is accurate.

(W/S) = MWRA Water and Sewer (W) = MWRA Water Only (S) = MWRA Sewer Only

CF = Cubic Foot HCF = Hundred Cubic Feet 1 HCF = 100 Cubic Feet = 748 Gallons n/a = No Answer

**Quincy (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 2.01/HCF

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 5.53/HCF  
 Based on 70% of water usage

Billing Frequency: Residential: Quarterly. Commercial: Monthly.

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 241.20 |
| Sewer                       | \$ 464.52 |
| Combined                    | \$ 705.72 |
| Percentage change from 2000 | 7.5%      |

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, 25% discount for both water and sewer.

**Randolph (S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

Minimum charge: \$ 5.00  
 All units \$ 1.55/HCF

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

Minimum charge: \$ 5.00  
 First 50 HCF \$ 2.97/HCF  
 Over 50 HCF \$ 4.38/HCF  
 Based on 100% of water usage.

Billing Frequency: Semi-Annual

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 186.00 |
| Sewer                       | \$ 384.60 |
| Combined                    | \$ 570.60 |
| Percentage change from 2000 | 2.1%      |

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Elderly credit on water only, \$8.00 per year.

**Reading (S)****Residential Water Rates:**

Last adjusted: September 2001  
 Next adjustment scheduled: September 2002  
 Fund: Enterprise

All units \$ 3.66/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 439.20   |
| Sewer                       | \$ 618.00   |
| Combined                    | \$ 1,057.20 |
| Percentage change from 2000 | -2.4%       |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: September 2001  
 Next adjustment scheduled: September 2002  
 Fund: Enterprise

All units \$ 5.15/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Revere (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 1.50/HCF

Billing Frequency: Residential: Quarterly. Commercial: Monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 180.00 |
| Sewer                       | \$ 454.80 |
| Combined                    | \$ 634.80 |
| Percentage change from 2000 | 7.7%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 3.79/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Saugus (W)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                 |             |
|-----------------|-------------|
| First 30 HCF    | \$ 1.20/HCF |
| 31 - 100 HCF    | \$ 1.69 "   |
| 101 - 200 HCF   | \$ 1.75 "   |
| 201 - 500 HCF   | \$ 2.25 "   |
| 501 - 1,000 HCF | \$ 2.40 "   |
| Over 1,000 HCF  | \$ 2.55 "   |

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 173.40 |
| Sewer                       | \$ 156.00 |
| Combined                    | \$ 329.40 |
| Percentage change from 2000 | 10.9%     |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 1990  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|               |             |
|---------------|-------------|
| First 30 HCF  | \$ 1.20/HCF |
| 31 - 100 HCF  | \$ 1.40 "   |
| 101 - 200 HCF | \$ 1.60 "   |
| 201 - 500 HCF | \$ 1.80 "   |
| Over 500 HCF  | \$ 2.00 "   |

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Somerville (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

|                 |             |
|-----------------|-------------|
| Minimum Charge: | \$ 9.80     |
| First 50 HCF    | \$ 2.45/HCF |
| 51 - 100 HCF    | \$ 2.58 "   |
| Over 100 HCF    | \$ 2.67 "   |

Billing Frequency: Residential: Quarterly. Commercial: Bi-monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 294.00 |
| Sewer                       | \$ 458.40 |
| Combined                    | \$ 752.40 |
| Percentage change from 2000 | 7.5%      |

**Commercial Water Rates:**

|                |             |
|----------------|-------------|
| First 100 HCF  | \$ 2.45/HCF |
| 101 to 200 HCF | \$ 2.58 "   |
| Over 201 HCF   | \$ 2.67 "   |

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

|                 |             |
|-----------------|-------------|
| Minimum Charge: | \$15.28     |
| First 50 HCF    | \$ 3.82/HCF |
| 51 - 100 HCF    | \$ 4.00 "   |
| Over 100 HCF    | \$ 4.16 "   |

Based on 100% of water usage.

**Commercial Sewer Rates:**

|                |             |
|----------------|-------------|
| First 100 HCF  | \$ 3.82/HCF |
| 101 to 200 HCF | \$ 4.00 "   |
| Over 201 HCF   | \$ 4.16 "   |

(W/S) = MWRA Water and Sewer (W) = MWRA Water Only (S) = MWRA Sewer Only

## South Hadley (partial W)

### Residential Water Rates:

Last adjusted: October 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge per family unit \$ 5.00  
 0 – 2,500 HCF \$ 2.74/HCF  
 Over 2,500 HCF \$ 2.86 "

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 348.80   |
| Sewer                       | Not Sewered |
| Combined                    | \$ 348.80   |
| Percentage change from 2000 | 3.9%        |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

### Residential Sewer Rates:

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

Community not sewerred.

### Commercial Sewer Rates:

Same as residential

## Southborough (W)

### Residential Water Rates:

Last adjusted: November 1, 1990  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

All units \$ 2.18/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 261.60   |
| Sewer                       | Not Sewered |
| Combined                    | \$ 261.60   |
| Percentage change from 2000 | 0.0%        |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: Yes, elderly water rate is \$18.17 for the first 1,000 CF and \$2.18 for each additional 100 CF utilized in each billing period.

### Residential Sewer Rates:

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

Community not sewerred.

### Commercial Sewer Rates:

Same as residential

**Stoneham (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Special Revenue

All units \$ 2.75/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 330.00  |
| Sewer                       | \$ 726.00  |
| Combined                    | \$1,056.00 |
| Percentage change from 2000 | 6.7%       |

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Special Revenue

All units \$ 6.05/HCF  
 Based on 100% of water usage.

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: \$50 combined as of May 1, 1998.

**Stoughton (S)****Residential Water Rates:**

Last adjusted: May, 1999  
 Next adjustment scheduled: March, 2002  
 Fund: Enterprise

|                 |             |
|-----------------|-------------|
| First 1,000 CF  | \$ 40.76    |
| Next 1,000 CF   | \$ 1.63/HCF |
| Next 3,200 CF   | \$ 1.84 "   |
| Next 6,600 CF   | \$ 2.04 "   |
| Next 6,600 CF   | \$ 2.24 "   |
| Next 6,600 CF   | \$ 2.46 "   |
| Next 25,000 CF  | \$ 2.67 "   |
| Next 50,000 CF  | \$ 2.84 "   |
| Over 100,000 CF | \$ 3.38 "   |

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 264.52   |
| Sewer                       | \$ 825.60   |
| Combined                    | \$ 1,090.12 |
| Percentage change from 2000 | 0.0%        |

**Residential Sewer Rates:**

Last adjusted: May, 1999  
 Next adjustment scheduled: March, 2002  
 Fund: Enterprise

Customers on town water pay \$6.88/HCF, based on 100% of water usage, with a minimum charge of \$107.31 per billing period.

Customers with private wells pay a flat charge of: \$275.35 per condominium, \$413.05 per private home.

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes, 15% discount on water only for residents 70 and above.

Only 58% of Stoughton's census population is sewered.

**Swampscott (W)****Residential Water Rates:**

Last adjusted: July 22, 2000  
 Next adjustment scheduled: August 2, 2001  
 Fund: General

All units \$ 3.10/HCF

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 372.00 |
| Sewer                       | \$ 288.00 |
| Combined                    | \$ 660.00 |
| Percentage change from 2000 | 10.7%     |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 22, 2000  
 Next adjustment scheduled: August 2, 2001  
 Fund: General

All units \$ 2.40/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Wakefield (S/partial W)****Residential Water Rates:**

Last adjusted: July 9, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

Base charge per bill \$ 18.00  
 All units \$ 2.00/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 312.00  |
| Sewer                       | \$ 704.00  |
| Combined                    | \$1,016.00 |
| Percentage change from 2000 | 5.0%       |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No. Please refer to the note below for general discount information.

**Residential Sewer Rates:**

Last adjusted: July 9, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

Base charge per bill \$ 20.00  
 All units \$ 5.20/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

The Town of Wakefield offers a 10% discount for all bills paid within 30 days of the bill date.

**Walpole (S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Special Revenue

All units \$ 2.614/HCF

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Special Revenue

Base charge per bill includes:  
 All units \$4.858/HCF  
 Based on 80% of water usage.

Billing Frequency: Residential: Quarterly. Commercial/Industrial: Monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 313.68 |
| Sewer                       | \$ 466.37 |
| Combined                    | \$ 780.05 |
| Percentage change from 2000 | 3.7%      |

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

Only 59% of Walpole's census population is sewered

**Waltham (W/S)****Residential Water Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

|                            |             |
|----------------------------|-------------|
| First 700 CF per month     | \$ 1.61/HCF |
| 701 - 1,500 CF per month   | \$ 1.90 "   |
| 1,501 - 4,000 CF per month | \$ 2.50 "   |
| Over 4,000 CF per month    | \$ 3.05 "   |

**Residential Sewer Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

|                            |             |
|----------------------------|-------------|
| First 700 CF per month     | \$ 3.32/HCF |
| 701 - 1,500 CF per month   | \$ 3.88 "   |
| 1,501 - 4,000 CF per month | \$ 4.51 "   |
| Over 4,000 CF per month    | \$ 4.88 "   |

Based on 100% of water usage.

Billing Frequency: Residential: Quarterly; Commercial: Monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 203.64 |
| Sewer                       | \$ 418.56 |
| Combined                    | \$ 622.20 |
| Percentage change from 2000 | 4.8%      |

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Watertown (W/S)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill 5/8" meter \$ 20.00  
 2,501 - 7,500 CF \$ 2.53/HCF  
 7,501- 100,000 \$ 3.37 "  
 Over 100,000 \$ 4.73 "

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 217.10 |
| Sewer                       | \$ 481.20 |
| Combined                    | \$ 698.30 |
| Percentage change from 2000 | 6.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

0 - 7,500 CF \$ 4.01/HCF  
 7,501- 100,000 \$ 4.66 "  
 Over 100,000 \$ 5.95 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Wellesley (S/partial W)****Residential Water Rates:**

Last adjusted: August 1, 1999  
 Next adjustment scheduled: August 1, 2002  
 Fund: Enterprise

Base charge per bill \$ 3.45  
 First 2,500 CF \$ 2.02/HCF  
 Over 2,500:  
 winter \$ 2.02 "  
 summer (two billing periods) \$ 3.39 "  
 outdoor meter (summer) \$ 3.39 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 283.80 |
| Sewer                       | \$ 546.00 |
| Combined                    | \$ 829.80 |
| Percentage change from 2000 | 2.5%      |

**Commercial Water Rates:**

"Readiness-to-serve" charge on water meters in excess of 5/8". Consumption charges same as residential.

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: August 1, 1999  
 Next adjustment scheduled: August 1, 2002  
 Fund: Enterprise

Base charge per bill \$ 3.00  
 All units \$ 4.25/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Weston (W)****Residential Water Rates:**

Last adjusted: July 1, 1997  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill 5/8" meter \$ 21.00  
 Summer (May 1 - Oct 31)  
 First 5,000 CF \$ 1.14/HCF  
 Over 5,000 CF \$ 2.00 "  
 Winter (Nov 1 - Apr 30)  
 First 5,000 CF \$ .95/HCF  
 Over 5,000 CF \$ 1.82 "

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |             |
|-----------------------------|-------------|
| Water                       | \$ 142.70   |
| Sewer                       | Not Sewered |
| Combined                    | \$ 142.70   |
| Percentage change from 2000 | 0.0%        |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

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

Community not sewered.

**Commercial Sewer Rates:**

n/a

**Westwood (S)****Residential Water Rates:**

Effective: April 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge includes:  
 First 500 CF \$ 29.61  
 Over 500 CF \$ 3.60/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |            |
|-----------------------------|------------|
| Water                       | \$ 478.44  |
| Sewer                       | \$ 633.00  |
| Combined                    | \$1,111.44 |
| Percentage change from 2000 | 5.6%       |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: September 1, 2001  
 Next adjustment scheduled: September, 2002  
 Fund: Enterprise

Base charge (5/8" meter) \$15.00  
 First 25 HCF \$ 4.40/HCF  
 25 - 70 HCF \$ 6.65 "  
 Over 70 HCF \$11.90 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

Residences that utilize well water are charged a \$125 quarterly fee for sewer use

**Weymouth (S)****Residential Water Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill \$ 7.28  
 First 108 HCF (Annually) \$ 2.10/HCF  
 Over 108 HCF \$ 3.50 "

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 297.92 |
| Sewer                       | \$ 669.20 |
| Combined                    | \$ 967.12 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Base charges per bill:

|              |          |
|--------------|----------|
| 1" meter     | \$ 9.15  |
| 1 1/2" meter | \$ 11.02 |
| 2" meter     | \$ 16.15 |
| 3" meter     | \$ 53.95 |
| 4" meter     | \$ 67.95 |
| 6" meter     | \$100.61 |
| 8" meter     | \$137.94 |
| 10" meter    | \$179.94 |

Consumption rates same as residential.

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill \$ 3.65  
 First 108 HCF (Annually) \$ 5.09/HCF  
 Over 108 HCF \$ 8.74 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Base charges per bill:

|              |          |
|--------------|----------|
| 1" meter     | \$ 11.20 |
| 1 1/2" meter | \$ 13.45 |
| 2" meter     | \$ 19.64 |
| 3" meter     | \$ 65.24 |
| 4" meter     | \$ 82.13 |
| 6" meter     | \$121.53 |
| 8" meter     | \$183.45 |
| 10" meter    | \$273.52 |

Consumption rates same as residential.

Elderly and/or Lower Income Discounts: Yes, \$20 annually, for water only.

**Wilbraham (W)****Residential Water Rates:**

Last revised: April 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Minimum Charge \$27.75  
 First 100 HCF \$ 1.90/HCF  
 101 - 200 HCF \$ 2.10 "  
 Over 200 HCF \$ 2.30 "

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 228.00 |
| Sewer                       | \$ 315.60 |
| Combined                    | \$ 543.60 |
| Percentage change from 2000 | 1.1%      |

**Commercial Water Rates:**

Minimum Charge \$27.75  
 All units \$ 1.90/HCF

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: November, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Minimum Charge \$31.56  
 All units \$ 2.63/HCF  
 Sewer charges for residences is capped at 120 HCF.  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Minimum Charge \$41.04  
 All units \$ 3.42/HCF

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

**Wilmington (S)****Residential Water Rates:**

Last revised: June 28, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

All units \$ 2.46/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 295.20 |
| Sewer                       | \$ 256.80 |
| Combined                    | \$ 552.00 |
| Percentage change from 2000 | 9.5%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: June 28, 2001  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 2.14/HCF

Based on 100% of water usage.

**Commercial Sewer Rates:**

All units \$ 2.56/HCF

Only 13% of Wilmington's census population is sewerd.

**Winchester (S/partial W)****Residential Water Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

First 1,500 CF \$ 0.71/HCF  
 1,600 - 4,500 CF \$ 2.62 "  
 Over 4,500 CF \$ 4.29 "

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 199.80 |
| Sewer                       | \$ 250.80 |
| Combined                    | \$ 450.60 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

First 7,500 CF \$ 3.25/HCF  
 Over 7,500 CF \$ 3.90 "

Elderly and/or Lower Income Discounts: Yes

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

First 1,500 CF \$ 0.88/HCF  
 1,500 - 4,500 CF \$ 3.30 "  
 Over 4,500 CF \$ 5.39 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

First 7,500 CF \$ 3.93/HCF  
 Over 7,500 CF \$ 4.70 "

Winchester utilizes the debt service exclusion as provided for under General Law 59 Section 21C(n).

**Winthrop (W/S)****Residential Water Rates:**

Last adjusted: July 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 2.55/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 306.00 |
| Sewer                       | \$ 556.80 |
| Combined                    | \$ 862.80 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 4.64/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Woburn (partial W/S)****Residential Water Rates:**

Last adjusted: July, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Flat rate of \$136.00 per year

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 136.00 |
| Sewer                       | \$ 234.00 |
| Combined                    | \$ 370.00 |
| Percentage change from 2000 | 0.0%      |

**Residential Sewer Rates:**

Last adjusted: July, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Flat rate of \$234.00 per year

**Commercial Water Rates:**

All units \$2.77/HCF

**Commercial Sewer Rates:**

All Units \$8.42/HCF

Elderly and/or Lower Income Discounts: Yes, 20% on water, and 60% for sewer.

The rate survey submitted by the City of Woburn in August indicated that the combined water and sewer rate for the community was increasing by 10.1%. In mid October, the City Council voted to nullify the increase. Therefore, the rates reflected in this year's report remain unchanged from the 2000 Retail Rate Survey.

**Worcester (partial W)****Residential Water Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 2.09/HCF

**Residential Sewer Rates:**

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 1.78/HCF  
 Based on 80% of water usage.

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

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 250.80 |
| Sewer                       | \$ 170.88 |
| Combined                    | \$ 421.68 |
| Percentage change from 2000 | 5.8%      |

**Commercial Water Rates:**

Same as residential

**Commercial Sewer Rates:**

See note above

Elderly and/or Lower Income Discounts: Yes, \$7.50 per each 3-month bill shall be exempted for eligible residents age 65 and over.

# SELECTED NON-MWRA MASSACHUSETTS COMMUNITIES 2001 WATER AND SEWER CHARGES

**PC** Application/Version **File Name**

**Mac**

**Type** **Copies** **Size %** **Paper Code**

**BSW**

**COLOR**  100%

**OVERSIZE**

**Size** 8.5 x 11 8.5 x 14 11 x 17 Other:

**Sides** 1:1 1:2 2:1 2:2 as-is

**Collate?** ☒ Yes ☐ No **Front** **Back**

**COL** **COMB** **TAPE** **VELO** **WIRE** **Spine**

☐ ☐ ☐ ☐ ☐ ☐

**Trim booklet?** **Restaple originals?**

☐ Y N ☐ Y N

**Mill** **Trim?** ☐ Y ☐ N

**Cut** **Dimensions** X **Yield:** pieces


**Customer** **Phone** **Counter** **Key-op**

**kinko's**

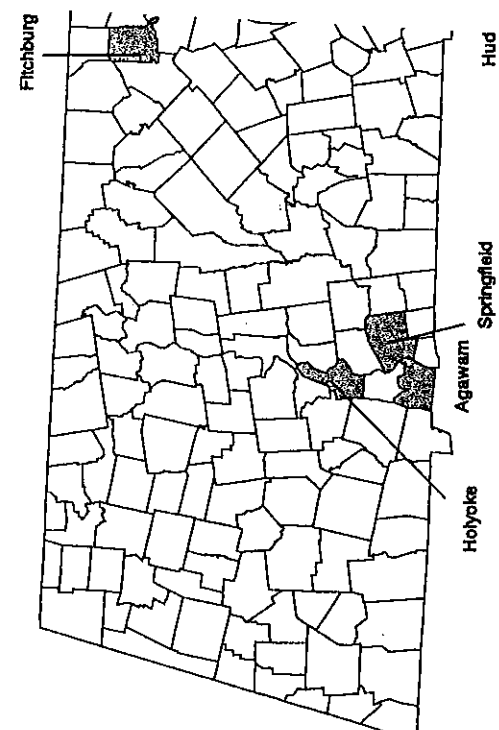
**Special Instructions/Pricing:**

section A

P1



New Bedford



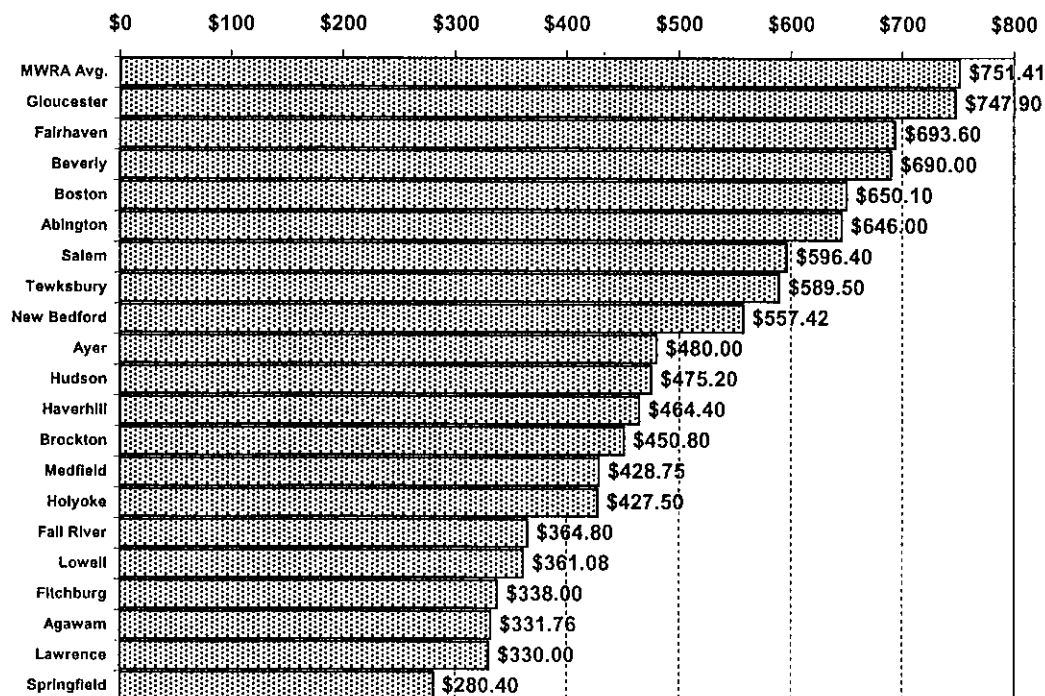
© 6/00

**COMPARATIVE ANNUAL RESIDENTIAL WATER AND SEWER CHARGES FOR  
SELECTED NON-MWRA COMMUNITIES IN MASSACHUSETTS  
2001**

|             | Water    | Sewer    | Combined | Percentage<br>Change |
|-------------|----------|----------|----------|----------------------|
| Abington    | \$348.00 | \$298.00 | \$646.00 | 0.0%                 |
| Agawam      | 151.40   | 180.36   | 331.76   | 0.0%                 |
| Ayer        | 180.00   | 300.00   | 480.00   | 15.9%                |
| Beverly     | 229.20   | 460.80   | 690.00   | 0.0%                 |
| Brockton    | 227.00   | 223.80   | 450.80   | 0.0%                 |
| Fairhaven   | 201.60   | 492.00   | 693.60   | 14.9%                |
| Fall River  | 115.20   | 249.60   | 364.80   | 16.9%                |
| Fitchburg   | 236.00   | 102.00   | 338.00   | 1.0%                 |
| Gloucester  | 373.50   | 374.40   | 747.90   | 13.2%                |
| Haverhill   | 207.60   | 256.80   | 464.40   | 21.3%                |
| Holyoke     | 252.00   | 175.50   | 427.50   | 0.0%                 |
| Hudson      | 256.80   | 218.40   | 475.20   | 6.5%                 |
| Lawrence    | 162.00   | 168.00   | 330.00   | 0.0%                 |
| Lowell      | 142.80   | 218.28   | 361.08   | 1.8%                 |
| Medfield    | 179.00   | 249.75   | 428.75   | 1.4%                 |
| New Bedford | 133.42   | 424.00   | 557.42   | 0.0%                 |
| Salem       | 193.20   | 403.20   | 596.40   | 0.0%                 |
| Springfield | 124.80   | 155.60   | 280.40   | 2.2%                 |
| Tewksbury   | 337.50   | 252.00   | 589.50   | 0.0%                 |

*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 - 2001**



## Abington

### Residential Water Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge per bill \$10.00  
 Meter Program Charge per bill \$ 2.00  
 All units \$ 2.50/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 348.00 |
| Sewer                       | \$ 298.00 |
| Combined                    | \$ 646.00 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

Same as residential n/a

Elderly and/or Lower Income Discounts: n/a

### Residential Sewer Rates:

Last adjusted: October 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: n/a

Base charge per bill \$10.00  
 All units \$ 2.15/HCF  
 Based on 100% of water usage.

### Commercial Sewer Rates:

The \$2 meter charge for water is now charged on a quarterly basis

## Agawam

### Residential Water Rates:

Last adjusted: January 1, 1991  
 Next adjustment scheduled: May 1, 2002  
 Fund: Enterprise

Annual service charge \$ 29.00  
 All units \$ 1.02/HCF

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 151.40 |
| Sewer                       | \$ 180.36 |
| Combined                    | \$ 331.76 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: Yes

### Residential Sewer Rates:

Last adjusted: May 1, 1990  
 Next adjustment scheduled: May 1, 2002  
 Fund: Special Revenue

Base charge per bill \$15.03  
 First 1,000 CF \$16.70  
 Over 1,000 CF \$ 1.67/HCF  
 Based on 90% of water usage.

### Commercial Sewer Rates:

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

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

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Minimum Charge \$10.00  
 First 100/HCF \$ 1.50/HCF  
 Over 100/HCF \$ 2.20/HCF

Billing Frequency: Residential - Semi-Annual; Commercial - Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 180.00 |
| Sewer                       | \$ 300.00 |
| Combined                    | \$ 480.00 |
| Percentage change from 2000 | 15.9%     |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: n/a

**Residential Sewer Rates:**

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Minimum Charge \$10.00  
 All units \$ 2.50/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

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

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 1.91/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 229.20 |
| Sewer                       | \$ 460.80 |
| Combined                    | \$ 690.00 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: No

**Residential Sewer Rates:**

Last adjusted: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 3.84/HCF  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

## Brockton

### Residential Water Rates:

Last adjusted: January 1, 1993  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                         |             |
|-------------------------|-------------|
| Minimum charge per bill | \$13.50     |
| First 2,500 CF          | \$ 1.80/HCF |
| 2,501 - 5,000 CF        | \$ 2.35 "   |
| 5,001 - 10,000 CF       | \$ 2.45 "   |
| 10,001 - 25,000 CF      | \$ 2.55 "   |
| 25,001 - 875,000CF      | \$ 2.60 "   |
| Greater than 875,001 CF | \$ 2.60 "   |

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 227.00 |
| Sewer                       | \$ 223.80 |
| Combined                    | \$ 450.80 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

### Residential Sewer Rates:

Last adjusted: January 1, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                         |             |
|-------------------------|-------------|
| First 2,500 CF          | \$ 1.79/HCF |
| 2,501 - 5,000 CF        | \$ 2.24 "   |
| 5,001 - 10,000 CF       | \$ 2.63 "   |
| 10,001 - 25,000 CF      | \$ 3.01 "   |
| 25,001 - 875,000CF      | \$ 3.28 "   |
| Greater than 875,001 CF | \$ 3.80 "   |

Based on 100% of water usage.

### Commercial Sewer Rates:

Same as residential

## Fairhaven

### Residential Water Rates:

Last adjusted: July 1, 1990  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 1.68/HCF

Billing Frequency: Semi-Annual Residential, Quarterly Commercial

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 201.60 |
| Sewer                       | \$ 492.00 |
| Combined                    | \$ 693.60 |
| Percentage change from 2000 | 14.9%     |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

### Residential Sewer Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 4.10/HCF  
 Based on 100% of water usage.

### Commercial Sewer Rates:

Same as residential

## Fall River

### Residential Water Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

All units \$ 0.96/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 115.20 |
| Sewer                       | \$ 249.60 |
| Combined                    | \$ 364.80 |
| Percentage change from 2000 | 16.9%     |

### Commercial Water Rates:

All units \$ 0.96/HCF

Elderly and/or Lower Income Discounts: n/a

### Residential Sewer Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

All units \$ 2.08/HCF  
 Based on 100% of water usage.

### Commercial Sewer Rates:

All Units \$0.96/HCF  
 (For accounts classified as significant industrial users.)  
 Based on 100% of water usage.

## Fitchburg

### Residential Water Rates:

Last adjusted: January 1, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill includes:

|              |             |
|--------------|-------------|
| First 500 CF | \$10.00     |
| Over 500 CF  | \$ 1.96/HCF |

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 236.00 |
| Sewer                       | \$ 102.00 |
| Combined                    | \$ 338.00 |
| Percentage change from 2000 | 1.0%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

### Residential Sewer Rates:

Last adjusted: 2000  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill includes:

|               |            |
|---------------|------------|
| 0 - 1,300 CF  | \$ 11.05   |
| Over 1,300 CF | \$ 0.85/cf |

Based on 100% of water usage.

### Commercial Sewer Rates:

Same as residential

## Gloucester

### Residential Water Rates:

Last adjusted: Spring, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

All units \$ 4.15/000 gals.

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 373.50 |
| Sewer                       | \$ 374.40 |
| Combined                    | \$ 747.90 |
| Percentage change from 2000 | 13.2%     |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: n/a

### Residential Sewer Rates:

Last adjusted: Spring, 2001  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

All units \$ 4.16/000 gals.  
 Based on 100% of water usage.

### Commercial Sewer Rates:

Same as residential

## Haverhill

### Residential Water Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 1.73/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 207.60 |
| Sewer                       | \$ 256.80 |
| Combined                    | \$ 464.40 |
| Percentage change from 2000 | 21.3%     |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

### Residential Sewer Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 2.14/HCF  
 Based on 100% of water usage.

### Commercial Sewer Rates:

Same as residential

## Holyoke

### Residential Water Rates:

Last adjusted: January, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

First 10,000 gallons \$ 28.00  
 Over 10,000 gallons \$ 2.80/000 gals.

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 252.00 |
| Sewer                       | \$ 175.50 |
| Combined                    | \$ 427.50 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: n/a

### Residential Sewer Rates:

Last adjusted: July, 1990  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 1.95/000 gals.  
 Based on 100% water usage.

### Commercial Sewer Rates:

Five entities are provided with a commercial rate.

## Hudson

### Residential Water Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

All units \$ 2.14/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 256.80 |
| Sewer                       | \$ 218.40 |
| Combined                    | \$ 475.20 |
| Percentage change from 2000 | 6.5%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

### Residential Sewer Rates:

Last adjusted: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: General

All units \$ 1.82/HCF  
 Based on 100% of water usage.

### Commercial Sewer Rates:

Same as residential

**Lawrence****Residential Water Rates:**

Last adjusted: 1988  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 1.35/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 162.00 |
| Sewer                       | \$ 168.00 |
| Combined                    | \$ 330.00 |
| Percentage change from 2000 | 0.0%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: n/a

**Residential Sewer Rates:**

Last adjusted: 1993  
 Next adjustment scheduled: n/a  
 Fund: General

1 - 57,500 CF \$ 1.40/HCF  
 Over 57,500 CF \$ 2.64 "  
 Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

**Lowell****Residential Water Rates:**

Last adjusted: April 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: General

|                         |              |
|-------------------------|--------------|
| Minimum charge per bill | \$16.66      |
| First 50 HCF            | \$ 1.190/HCF |
| 51-100 HCF              | \$ 1.492 "   |
| 101-200 HCF             | \$ 1.523 "   |
| 201-500 HCF             | \$ 1.553 "   |
| Over 500 HCF            | \$ 1.569 "   |

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 142.80 |
| Sewer                       | \$ 218.28 |
| Combined                    | \$ 361.08 |
| Percentage change from 2000 | 1.8%      |

**Commercial Water Rates:**

Same as residential

Elderly and/or Lower Income Discounts: Yes for water.

**Residential Sewer Rates:**

Last adjusted: February 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                         |              |
|-------------------------|--------------|
| Minimum charge per bill | \$25.47      |
| First 50 HCF            | \$ 1.819/HCF |
| 51-100 HCF              | \$ 1.966 "   |
| 101-200 HCF             | \$ 2.006 "   |
| 201-500 HCF             | \$ 2.048 "   |
| Over 500 HCF            | \$ 2.088 "   |

Based on 100% of water usage.

**Commercial Sewer Rates:**

Same as residential

## Medfield

### Residential Water Rates:

|                            |                   |
|----------------------------|-------------------|
| Last adjusted:             | April 1, 2000     |
| Next adjustment scheduled: | n/a               |
| Fund:                      | Enterprise        |
| Minimum Bill (10,000 gals) | \$20.00           |
| 10,001 - 35,000 gals.      | \$ 1.70/000 gals. |
| 35,001 - 70,000 gals.      | \$ 2.70 "         |
| Over 70,000 gals.          | \$ 3.70 "         |

Billing Frequency: Semi-Annual

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 179.00 |
| Sewer                       | \$ 249.75 |
| Combined                    | \$ 428.75 |
| Percentage change from 2000 | 1.4%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: n/a

### Residential Sewer Rates:

|                              |                   |
|------------------------------|-------------------|
| Last adjusted:               | April 1, 1991     |
| Next adjustment scheduled:   | n/a               |
| Fund:                        | General           |
| Minimum Bill                 | \$29.60           |
| All units                    | \$ 3.70/000 gals. |
| Based on 75% of water usage. |                   |

### Commercial Sewer Rates:

Same as residential - based on 100% of water usage.

## New Bedford

### Residential Water Rates:

|                            |              |
|----------------------------|--------------|
| Last adjusted:             | July 1, 1990 |
| Next adjustment scheduled: | n/a          |
| Fund:                      | General      |
| Base charge per year       | \$ 26.17     |
| Meter rental fee per year  | \$ 5.25      |
| All units                  | \$ 0.85/HCF  |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 133.42 |
| Sewer                       | \$ 424.00 |
| Combined                    | \$ 557.42 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

Same as residential

Elderly and/or Lower Income Discounts: n/a

### Residential Sewer Rates:

|                               |                 |
|-------------------------------|-----------------|
| Last adjusted:                | August 1, 1999  |
| Next adjustment scheduled:    | n/a             |
| Fund:                         | Special Revenue |
| Base charge per year          | \$ 70.00        |
| All units                     | \$ 2.95/HCF     |
| Based on 100% of water usage. |                 |

### Commercial Sewer Rates:

Same as residential

## Salem

### Residential Water Rates:

Last adjusted: July, 1998  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Minimum bill - 5/8" meter \$ 16.10  
 All units \$ 1.61/HCF

### Residential Sewer Rates:

Last adjusted: July, 1998  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 3.36/HCF  
 Based on 100% of water usage.

Billing Frequency: Residential – Quarterly; Commercial – Monthly and Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 193.20 |
| Sewer                       | \$ 403.20 |
| Combined                    | \$ 596.40 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

All Units \$2.19/HCF

### Commercial Sewer Rates:

Up to 25,000 CF per month \$ 5.09  
 Over 25,001 CF per month \$ 6.25

Elderly and/or Lower Income Discounts: n/a

## Springfield

### Residential Water Rates:

Last adjusted: June 11, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Minimum bill - 5/8" meter \$15.00  
 All units \$ 1.04/HCF

### Residential Sewer Rates:

Last adjusted: January 1, 1996  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge \$ 2.00  
 All units \$ 1.23/HCF  
 Based on 100% water usage.

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 124.80 |
| Sewer                       | \$ 155.60 |
| Combined                    | \$ 280.40 |
| Percentage change from 2000 | 2.2%      |

### Commercial Water Rates:

\$ .39/HCF (Industrial Users Only)

### Commercial Sewer Rates:

\$1.353/HCF

Elderly and/or Lower Income Discounts: Yes: \$7.50 elderly discount per quarter for water.

## Tewksbury

### Residential Water Rates:

Last adjusted: July 1, 1992  
 Next adjustment scheduled: n/a  
 Fund: General

First 150,000 gals/year \$ 3.75/000 gals.  
 Over 150,000 gals/year \$ 4.50 "

### Residential Sewer Rates:

Last adjusted: July 1, 1992  
 Next adjustment scheduled: n/a  
 Fund: General

All units \$ 2.80/000 gals.  
 Based on 100% water usage.

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

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 337.50 |
| Sewer                       | \$ 252.00 |
| Combined                    | \$ 589.50 |
| Percentage change from 2000 | 0.0%      |

### Commercial Water Rates:

Same as residential

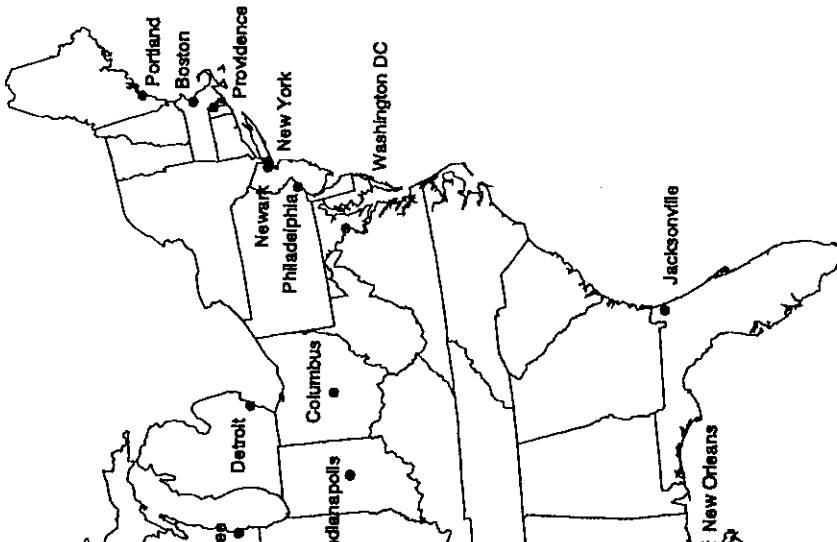
### Commercial Sewer Rates:

Same as residential

Elderly and/or Lower Income Discounts: No

Only 30% of Tewksbury is sewerred

# COMPARATIVE RESIDENTIAL 2001 WATER AND SEWER CHARGES FOR U.S. CITIES



|            |                     |           |          |
|------------|---------------------|-----------|----------|
| <b>PC</b>  | Application/Version | File Name | Time Due |
| <b>Mac</b> |                     |           |          |

|          |        |        |            |                                      |
|----------|--------|--------|------------|--------------------------------------|
| Type     | Copies | Size % | Paper Code | <b>Special Instructions/Pricing:</b> |
| B&W      |        | 100%   | ETF        |                                      |
| COLOR    |        |        | RTF        |                                      |
| OVERSIZE |        |        |            |                                      |

Size: 8.5 x 11   8.5 x 14   11 x 17   Other: \_\_\_\_\_

Sides: 1-1   1-2   2-1   2-2   as-is

Collate? ☒ Yes   ☐ No   ☒ Front   ☐ Back

☐ COL   ☐ COMB   ☐ TAPE   ☐ VELO   ☐ WIRE   ☐ Spine

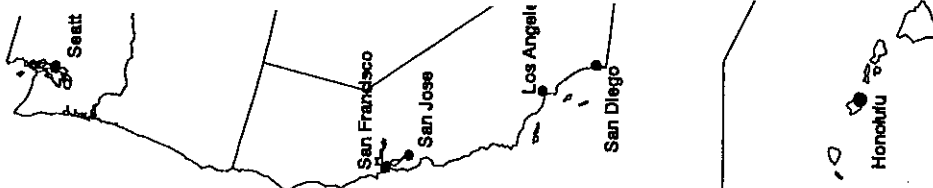
☐ Trim booklet? Y N   ☐ Restaple originals? Y N

☐ Mil   ☐ Trim? Y N   ☐ 0 0

|                |   |        |        |
|----------------|---|--------|--------|
| Cut Dimensions | X | Yield: | pieces |
|----------------|---|--------|--------|

|          |       |         |        |
|----------|-------|---------|--------|
| Customer | Phone | Counter | Key-op |
|----------|-------|---------|--------|

**kinko's** © 6/00



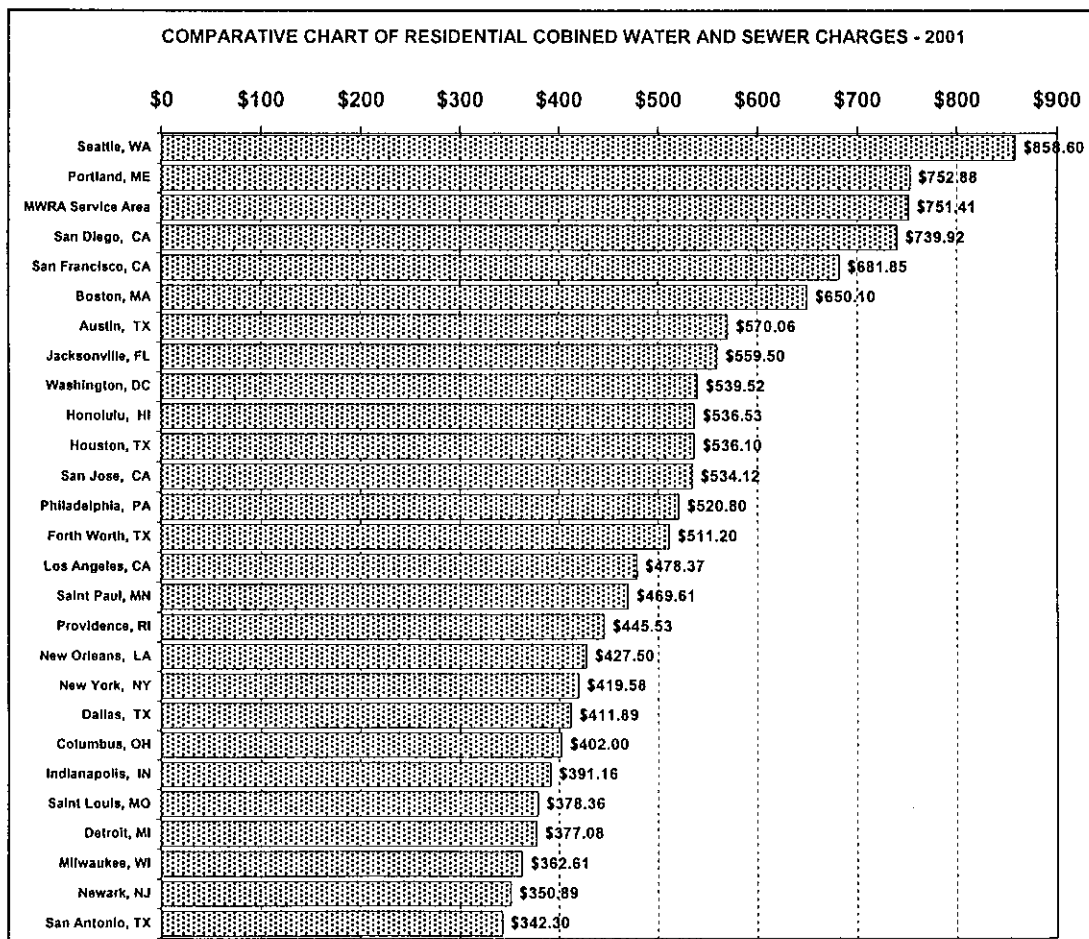
Section B

P9

7

| COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES<br>FOR MAJOR UNITED STATES CITIES<br>2001 |          |          |          |        |
|--|----------|----------|----------|--------|
|  | Water    | Sewer    | Combined | Change |
| Austin, TX   | \$188.76 | \$381.30 | \$570.06 | 2.7%   |
| Boston, MA   | 239.09   | 411.01   | 650.10   | 0.0%   |
| Columbus, OH   | 173.40   | 228.60   | 402.00   | 0.0%   |
| Dallas, TX   | 155.16   | 256.73   | 411.89   | -2.4%  |
| Detroit, MI  | 137.76   | 239.32   | 377.08   | 15.0%  |
| Forth Worth, TX  | 234.00   | 277.20   | 511.20   | 10.1%  |
| Honolulu, HI   | 181.50   | 355.03   | 536.53   | 0.0%   |
| Houston, TX  | 259.80   | 276.30   | 536.10   | 0.0%   |
| Indianapolis, IN   | 246.60   | 144.56   | 391.16   | 5.2%   |
| Jacksonville, FL   | 188.10   | 371.40   | 559.50   | 0.0%   |
| Los Angeles, CA  | 237.00   | 241.37   | 478.37   | 10.5%  |
| Milwaukee, WI  | 180.76   | 181.85   | 362.61   | 5.0%   |
| MWRA Service Area  | 281.91   | 469.50   | 751.41   | 3.7%   |
| New Orleans, LA  | 222.60   | 204.90   | 427.50   | 0.0%   |
| New York, NY   | 162.00   | 257.58   | 419.58   | 3.1%   |
| Newark, NJ   | 166.57   | 184.32   | 350.89   | 0.0%   |
| Philadelphia, PA   | 178.20   | 342.60   | 520.80   | 0.0%   |
| Portland, ME   | 274.08   | 478.80   | 752.88   | 0.0%   |
| Providence, RI   | 256.45   | 189.08   | 445.53   | 28.7%  |
| Saint Louis, MO  | 182.64   | 195.72   | 378.36   | 0.0%   |
| Saint Paul, MN   | 179.21   | 290.40   | 469.61   | 0.5%   |
| San Antonio, TX  | 164.30   | 178.00   | 342.30   | 10.4%  |
| San Diego, CA  | 268.92   | 471.00   | 739.92   | 3.5%   |
| San Francisco, CA  | 208.80   | 473.05   | 681.85   | 2.5%   |
| San Jose, CA   | 259.20   | 274.92   | 534.12   | 0.0%   |
| Seattle, WA  | 319.80   | 538.80   | 858.60   | 4.6%   |
| Washington, DC   | 214.32   | 325.20   | 539.52   | 4.9%   |
| AVERAGE  | \$213.37 | \$305.13 | \$518.50 | 3.4%   |

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



## Austin, Texas

### Residential Water Rates:

Last adjusted: November 1, 2000  
 Next adjustment scheduled: November 1, 2001  
 Fund: Enterprise

|                          |                   |
|--------------------------|-------------------|
| Base charge (5/8" meter) | \$ 2.23           |
| 0 - 2,000 gals.          | \$ 1.25/000 gals. |
| 2,001 - 12,000 gals.     | \$ 2.00 "         |
| Over 12,001 gals.        | \$ 4.90 "         |

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 188.76 |
| Sewer                       | \$ 381.30 |
| Combined                    | \$ 570.06 |
| Percentage change from 2000 | 2.7%      |

### Residential Sewer Rates:

Last adjusted: November 1, 2000  
 Next adjustment scheduled: November 1, 2001  
 Fund: Enterprise

|                                  |                   |
|----------------------------------|-------------------|
| Base charge per bill (per month) | \$ 2.60           |
| First 2000 gallons               | \$ 1.80/000 gals. |
| Over 2000 gallons                | \$ 4.65/"         |
| Based on winter average          |                   |

## Columbus, Ohio

### Residential Water Rates:

Last adjusted: January 1, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                                   |              |
|-----------------------------------|--------------|
| Base charge per bill (5/8" meter) | \$ 3.16      |
| First 1,500 CF/month              | \$ 1.212/HCF |
| Next 23,500 CF/month              | \$ 1.046 "   |
| Next 175,000 CF/month             | \$ 0.811 "   |
| Next 800,000 CF/month             | \$ 0.774 "   |
| Next 1,000,000 CF/month           | \$ 0.693 "   |
| balance/month                     | \$ 0.682 "   |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 173.40 |
| Sewer                       | \$ 228.60 |
| Combined                    | \$ 402.00 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: January 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                               |              |
|-------------------------------|--------------|
| Base charge per bill          | \$ 5.94      |
| All units                     | \$ 1.707/HCF |
| Based on 100% of water usage. |              |

**Dallas, Texas****Residential Water Rates:**

Last adjusted: October 1, 2000  
 Next adjustment scheduled: October 1, 2001  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 2.45  
 First 4,000 gals. \$ 1.08/000 gals.  
 4,001 - 10,000 gals. \$ 1.76 "  
 Over 10,000 gals. \$ 2.30 "

**Residential Sewer Rates:**

Last adjusted: October 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill \$ 2.50  
 All units \$ 2.82/000 gals.  
 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. Winter monthly average consumption for prior year: 6,700 gallons.

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 155.16 |
| Sewer                       | \$ 256.73 |
| Combined                    | \$ 411.89 |
| Percentage change from 2000 |           |

**Detroit, Michigan**

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**Residential Water Rates:**

Last adjusted: August 1, 2001  
 Next adjustment scheduled: August 1, 2002  
 Fund: Enterprise

Monthly charge (5/8" meter) \$ 2.02  
 First 3,000 CF \$ 0.946/HCF  
 Next 30,000 CF \$ 0.864 "  
 Over 33,000 CF \$ 0.777 "

**Residential Sewer Rates:**

Last adjusted: August 1, 2001  
 Next adjustment scheduled: August 1, 2002  
 Fund: Enterprise

Base charge/bill (Quarterly) \$ 6.25  
 Drainage chg. (5/8" meter)/month \$ 5.35  
 All units \$ 1.251/HCF  
 Based on 100% of water usage.

Billing Frequency: Residential: Quarterly. Commercial: Monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 137.76 |
| Sewer                       | \$ 239.32 |
| Combined                    | \$ 377.08 |
| Percentage change from 2000 | 15.0%     |

**Dallas, Texas****Residential Water Rates:**

Last adjusted: October 1, 2000  
 Next adjustment scheduled: October 1, 2001  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 2.45  
 First 4,000 gals. \$ 1.08/000 gals.  
 4,001 - 10,000 gals. \$ 1.76 "  
 Over 10,000 gals. \$ 2.30 "

**Residential Sewer Rates:**

Last adjusted: October 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill \$ 2.50  
 All units \$ 2.82/000 gals.  
 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. Winter monthly average consumption for prior year: 6,700 gallons.

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 155.16 |
| Sewer                       | \$ 256.73 |
| Combined                    | \$ 411.89 |
| Percentage change from 2000 | -2.4%     |

**Detroit, Michigan****Residential Water Rates:**

Last adjusted: August 1, 2001  
 Next adjustment scheduled: August 1, 2002  
 Fund: Enterprise

Monthly charge (5/8" meter) \$ 2.02  
 First 3,000 CF \$ 0.946/HCF  
 Next 30,000 CF \$ 0.864"  
 Over 33,000 CF \$ 0.777 "

**Residential Sewer Rates:**

Last adjusted: August 1, 2001  
 Next adjustment scheduled: August 1, 2002  
 Fund: Enterprise

Base charge/bill (Quarterly) \$ 6.25  
 Drainage chg. (5/8" meter)/month \$ 5.35  
 All units \$ 1.251/HCF  
 Based on 100% of water usage.

Billing Frequency: Residential: Quarterly. Commercial: Monthly.

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 137.76 |
| Sewer                       | \$ 239.32 |
| Combined                    | \$ 377.08 |
| Percentage change from 2000 | 15.0%     |

## Fort Worth, Texas

### Residential Water Rates:

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 4.50  
 First 4,000 CF \$ 1.50/HCF  
 Over 4,000 CF \$ 1.72 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 234.00 |
| Sewer                       | \$ 277.20 |
| Combined                    | \$ 511.20 |
| Percentage change from 2000 | 10.1%     |

### Residential Sewer Rates:

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

Base charge per bill \$ 4.50  
 All units \$ 1.86/HCF  
 Based on individual customer's average monthly usage during the preceding months of December, January and February. In no event shall the volume used to compute this monthly charge exceed 1,500 cubic feet.

## Honolulu, Hawaii

### Residential Water Rates:

Last adjusted: July 1, 1995  
 Next adjustment scheduled: July, 2002  
 Fund: Enterprise

Base charge per bill \$ 3.70  
 First 13,000 gals/month \$ 1.77/000 gals.  
 13,001 - 30,000 gals/month \$ 2.12 "  
 Over 30,000 gals/month \$ 3.18 "

Billing Frequency: Bi-Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 181.50 |
| Sewer                       | \$ 355.03 |
| Combined                    | \$ 536.53 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: July 1, 1993  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per month includes:  
 First 2,000 gals/month \$24.85  
 Over 2,000 gals/month \$ 1.05/000 gals.  
 Based on 82% of water usage after first 2,000 gals/month.

## Houston, Texas

### Residential Water Rates:

Last adjusted: March 30, 1993  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill (5/8" meter)  
 0 - 3,000 gals/month \$ 2.95  
 at 4,000 gals/month \$12.82  
 at 5,000 gals/month \$15.13  
 at 6,000 gals/month \$18.11  
 6,000 - 12,000 gals/month \$ 2.36/000 gals.  
 Over 12,000 gals/month \$ 4.30/000 gals.

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 259.80 |
| Sewer                       | \$ 276.30 |
| Combined                    | \$ 536.10 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Effective: March 30, 1993  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill includes:  
 0 - 3,000 gals/month \$ 5.55  
 at 4,000 gals/month \$ 11.80  
 at 5,000 gals/month \$ 14.75  
 at 6,000 gals/month \$ 18.42  
 Over 6,000 gals/month \$ 3.07/000 gals.

## Indianapolis, Indiana

### Residential Water Rates:

Last adjusted: January 10, 2001  
 Next adjustment scheduled: 2002  
 Fund: General

Base charge/bill (5/8" meter) \$ 7.55  
 First 1,500 CF \$ 1.30/HCF  
 Next 18,500 CF \$ 1.27 "  
 Next 80,000 CF \$ 1.20 "  
 Next 400,000 CF \$ 0.82 "  
 Over 500,000 CF \$ 0.59 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 246.60 |
| Sewer                       | \$ 144.56 |
| Combined                    | \$ 391.16 |
| Percentage change from 2000 | 5.2%      |

### Residential Sewer Rates:

Last adjusted: June 2001  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill \$ 2.03  
 All units \$ 1.0017/HCF  
 Based on individual customer's average  
 water usage during the preceding  
 months of October through April.

## Jacksonville, Florida

### Residential Water Rates:

Last adjusted: May, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 8.45  
 1-15 HCF \$ 0.58/HCF  
 16 - 30 HCF \$ 0.73 "  
 Over 30 HCF \$ 0.96 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 188.10 |
| Sewer                       | \$ 371.40 |
| Combined                    | \$ 559.50 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: May, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 3.40  
 All units \$ 2.90/HCF

Residential sewer charges are based on actual water usage up to a maximum of 3,000 CF per month for October through March. April through September sewer charges are based on 90% of actual water usage.

A 10% Public Service Tax on water charges is included.

## Los Angeles, California

### Residential Water Rates:

Last adjusted: October 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

November 1 through May 31  
 0 - 22 HCF (average rate) \$ 1.99/HCF  
 Over 22 HCF \$ 2.33 "

June 1 through October 31  
 0 - 28 HCF (average rate) \$ 1.95/HCF  
 Over 28 HCF \$ 2.98 "

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 237.00 |
| Sewer                       | \$ 241.37 |
| Combined                    | \$ 478.37 |
| Percentage change from 2000 | 10.5%     |

### Residential Sewer Rates:

Last adjusted: July 1, 1997  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

All units \$ 2.26/HCF  
 Dry Winter Compensation Factor is 89%.

- 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.
- The sewer charge per HCF remains unchanged from July 1, 1997, however, the Dry Winter Compensation Factor has changed from 83% to 89%.
- The residential 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 \$2.26/HCF. A 10% Public Service Tax on water charges is included.

## Milwaukee, Wisconsin

### Residential Water Rates:

Last adjusted: June 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                               |              |
|-------------------------------|--------------|
| Base charge/bill (3/4" meter) | \$13.24      |
| First 10,000 CF               | \$ 1.065/HCF |
| Next 490,000 CF               | \$ 0.993 "   |
| Next 1,500,000 CF             | \$ 0.620 "   |
| Over 2,000,000 CF             | \$ 0.569 "   |

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 180.76 |
| Sewer                       | \$ 181.85 |
| Combined                    | \$ 362.61 |
| Percentage change from 2000 | 5.0%      |

### Commercial Water Rates:

Same as residential

### Residential Sewer Rates:

Last adjusted: February 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

|                               |               |
|-------------------------------|---------------|
| Service charge per bill       | \$ 9.76       |
| All units (Volume Charge)     | \$ 0.65/HCF   |
| Sewer Maintenance Charge      | \$ 0.5401/HCF |
| Based on 100% of water usage. |               |

### Commercial Sewer Rates:

Same as Residential

## New Orleans, Louisiana

### Residential Water Rates:

Last adjusted: April 1, 1990  
 Next adjustment scheduled: n/a  
 Fund: n/a

|                               |                   |
|-------------------------------|-------------------|
| Base charge/bill (5/8" meter) | \$ 3.10           |
| 0 - 20,000 gals.              | \$ 2.06/000 gals. |
| 20,000 - 1,000,000 gals.      | \$ 1.85 "         |
| Over 1,000,000 gals.          | \$ 1.42 "         |

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 222.60 |
| Sewer                       | \$ 204.90 |
| Combined                    | \$ 427.50 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: March 16, 2000  
 Next adjustment scheduled: n/a  
 Fund: n/a

|                              |                   |
|------------------------------|-------------------|
| Base charge per bill         | \$ 5.60           |
| All units                    | \$ 1.80/000 gals. |
| Based on 85% of water usage. |                   |

## New York, New York

### Residential Water Rates:

Effective: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise  
 All units \$ 1.35/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 162.00 |
| Sewer                       | \$ 257.58 |
| Combined                    | \$ 419.58 |
| Percentage change from 2000 | 3.1%      |

### Residential Sewer Rates:

Effective: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise  
 All units \$ 2.15/HCF  
 Based on 159% of water usage.

## Newark, New Jersey

### Residential Water Rates:

Last adjusted: February 1, 1998  
 Next adjustment scheduled: n/a  
 Fund: General

Base charge per bill includes:

|                 |             |
|-----------------|-------------|
| First 300 CF    | \$ 4.48/HCF |
| Next 33,000 CF  | \$ 1.343/"  |
| Next 133,300 CF | \$ 1.199 "  |
| Over 166,600 CF | \$ 1.075 "  |

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 166.57 |
| Sewer                       | \$ 184.32 |
| Combined                    | \$ 350.89 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: January 1, 1994  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill includes:

|              |             |
|--------------|-------------|
| First 600 CF | \$ 9.60     |
| Over 600 CF  | \$ 1.44/HCF |

Based on 100% of water usage.

## Philadelphia, Pennsylvania

### Residential Water Rates:

Last adjusted: July 1, 1995  
 Next adjustment scheduled: September 4, 2001  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 2.68  
 First 2,000 CF \$ 1.217/HCF  
 Next 98,000 CF \$ 0.939 "  
 Next 1,900,000 CF \$ 0.818 "  
 Over 2,000,000 CF \$ 0.631 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 178.20 |
| Sewer                       | \$ 342.60 |
| Combined                    | \$ 520.80 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: July 1, 1995  
 Next adjustment scheduled: September 4, 2001  
 Fund: Enterprise

Base charge/bill (5/8 " meter) \$ 16.06  
 All units \$ 1.249/HCF  
 Based on 100% of water usage.

## Portland, Maine

### Residential Water Rates:

Last adjusted: June 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill includes:  
 First 100 CF \$ 7.00  
 Next 2,900 CF \$ 1.76/HCF  
 Next 7,000 CF \$ 1.27 "  
 Next 40,000 CF \$ 0.94 "  
 Over 50,000 CF \$ 0.65 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 274.08 |
| Sewer                       | \$ 478.80 |
| Combined                    | \$ 752.88 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: November 1, 1997  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill includes:  
 First 200 CF \$ 7.98  
 Over 200 CF \$ 3.99/HCF  
 Based on 100% of water usage.

## Providence, Rhode Island

### Residential Water Rates:

Last adjusted: January 1, 2001  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge per bill \$ 10.00  
 All Units \$ 1.61/HCF  
 State Surcharge per HCF \$ 0.19374 "

Billing Frequency: Quarterly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 256.45 |
| Sewer                       | \$ 189.08 |
| Combined                    | \$ 445.53 |
| Percentage change from 2000 | 28.7%     |

### Residential Sewer Rates:

Last adjusted: January 29, 2001  
 Next adjustment scheduled: Spring 2002  
 Fund: Enterprise

Annual Fixed Fee \$54.68  
 All units \$ 1.12/HCF  
 (Sewer costs based on service from the Narragansett Bay  
 Commission Field's Point Wastewater Treatment Facility)  
 Based on 85% of water usage.

In Providence, water services are provided by the Providence Water Supply Board, while sewer services are managed by the Narragansett Bay Commission.

## Saint Louis, Missouri

### Residential Water Rates:

Last adjusted: July 1, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge (5/8" meter) \$14.16  
 First 25,000 CF \$ 1.05/HCF  
 Next 1,975,000 CF \$ 0.82 "  
 Over 2,000,000 CF \$ 0.62 "

Billing Frequency: Water: Quarterly. Sewer: Monthly.

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 182.64 |
| Sewer                       | \$ 195.72 |
| Combined                    | \$ 378.36 |
| Percentage change from 2000 | 0.0%      |

### Residential Sewer Rates:

Last adjusted: October 1, 1997  
 Next adjustment scheduled: n/a  
 Fund: Special Revenue

Base charge per bill \$ 5.81  
 All units \$ 1.05/HCF  
 Based on 100% of water usage.

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 Rates Survey, charges are based upon the metered rates as specified within the City of Saint Louis Ordinance Number 63136.

## Saint Paul, Minnesota

### Residential Water Rates:

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

Winter - December to May:  
 First 100,000 CF/Month \$ 1.40/HCF  
 Over 100,000 CF/Month \$ 1.30 "

Summer - June to November:  
 First 100,000 CF/Month \$ 1.50/HCF  
 Over 100,000 CF/Month \$ 1.30 "

An annual testing charge of \$5.21 per household goes to the Minnesota Department of Health for testing public water supplies, as required by the Federal Safe Drinking Water Act.

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 179.21 |
| Sewer                       | \$ 290.40 |
| Combined                    | \$ 469.61 |
| Percentage change from 2000 | 0.5%      |

### Residential Sewer Rates:

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

First 100,000 CF \$ 2.42/HCF  
 Next 400,000 CF \$ 2.39 "  
 Over 500,000 CF \$ 2.33 "  
 Minimum charge of \$7.20 for 3/4" meters.  
 Based on 100% of water usage.

## San Antonio, Texas

### Residential Water Rates:

Last adjusted: December 1, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 5.61  
 Water Supply Fee \$ 0.0358/100 gals.  
 Winter - November through June  
 First 7,481 gals. \$ 0.722/000 gals.  
 Next 5,236 gals. \$ 1.038 "  
 Next 4,488 gals. \$ 1.288 "  
 Over 17,205 gals. \$ 2.703 "

Summer - July through October  
 First 7,481 gals. \$ 0.722/000 gals.  
 Next 5,236 gals. \$ 1.128 "  
 Next 4,488 gals. \$ 1.388 "  
 Over 17,205 gals. \$ 3.490 "

Billing Frequency: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 164.30 |
| Sewer                       | \$ 178.00 |
| Combined                    | \$ 342.30 |
| Percentage change from 2000 | 10.4%     |

### Residential Sewer Rates:

Last adjusted: September 1, 1994  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

First 1,496 gals. \$ 5.70  
 Over 1,496 gals. \$ 1.526/000 gals.

Computed on the basis of average water usage for 90 days during the period beginning November 15 and ending March 15 of each year.

New customers or customers moving from one location to another who would not have a winter record of water usage are billed an Unaveraged Residential Charge of \$15.97 per month.

## San Diego, California

### Residential Water Rates:

Last adjusted: July 1, 1999  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

Base charge/bill (1" meter) \$ 9.63  
 0 -14 HCF \$ 1.273/HCF  
 15-28 HCF \$ 1.623 "  
 Over 28 HCF \$ 1.793 "

Billing Frequency: Bi-monthly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 268.92 |
| Sewer (1)                   | \$ 471.00 |
| Combined                    | \$ 739.92 |
| Percentage change from 2000 | 3.5%      |

### Residential Sewer Rates:

Effective: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

Base charge per bill \$ 17.54  
 All units \$ 3.05/HCF  
 Based on 60 day winter usage.  
 Storm drain \$ 1.90  
 Sewer cap charge per bill \$ 78.50

(1) Single Family Dwelling Customers who were not occupants for at least half of the previous winter (December 1999 through March 2000) will be billed at least the following Single Family Dwelling Flat Sewer Rate:

|                |                     |
|----------------|---------------------|
| Sewer Base Fee | \$ 17.54            |
| Sewer Charge   | \$ 60.96            |
| Total          | \$ 78.50/Bi-monthly |

The 2001 sewer rate is based on a sewer cap charge per bill of \$78.50, or a 2001 annual charge of \$471.00 (\$78.50 X 6).

## San Francisco, California

### Residential Water Rates:

Effective: July 1, 2001  
 Next adjustment scheduled: July 1, 2002  
 Fund: Enterprise

Base charge/bill (5/8" meter) \$ 7.40  
 All units \$ 1.37/HCF

Billing Frequency: Bi-monthly

Annual cost per 120 HCF (≈ 90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 208.80 |
| Sewer                       | \$ 473.05 |
| Combined                    | \$ 681.85 |
| Percentage change from 2000 | 2.5%      |

### Residential Sewer Rates:

Effective: July 1, 1996  
 Next adjustment scheduled: n/a  
 Fund: Enterprise

First 300 CF \$ 1.8623/HCF  
 Over 300 CF \$ 4.8334 "  
 Based on 90% of water usage.

Local Proposition H freezes rates until 2006, except for increases required to pay the debt service on voter approved bonds.

## San Jose, California

### Residential Water Rates:

Effective: July 1, 2000  
 Next adjustment scheduled: n/a  
 Fund: n/a

Base charge/bill (5/8" meter) \$ 7.20  
 All units \$ 1.44/HCF

### Residential Sewer Rates:

Effective: July 1, 1994  
 Next adjustment scheduled: n/a  
 Fund: n/a

Flat rate \$ 18.96  
 Storm drain charge \$ 3.95  
 Monthly charges for a Single Family  
 Residences include the storm drain charge.

Billing Frequency: Water: Bi-Monthly. Sewer: Monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |   |
|-----------------------------|---|
| Water                       | \$ 259.20                               |
| Sewer                       | \$ 274.92 (includes storm drain charge) |
| Combined                    | \$ 534.12                               |
| Percentage change from 2000 | 0.0%                                    |

Rates cited for San Jose are provided by the San Jose Water Company (water) and the City of San Jose (sewer)

## Seattle, Washington

### Residential Water Rates:

Last adjusted: May 16, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

Base chg/month (3/4" & less) \$ 3.90

Winter - September 16 through May 15  
 All units \$ 2.16/HCF

Summer - May 16 through July 15  
 First 500 CF/Month \$ 2.16/HCF  
 Over 500 CF/Month \$ 2.85 "

Summer - July 16 through September 15  
 First 500 CF/Month \$ 2.16/HCF  
 501 - 1,500 CF/Month \$ 2.85 "  
 Over 1,500 CF/Month \$11.40 "

Billing Frequency: Bi-monthly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 319.80 |
| Sewer                       | \$ 538.80 |
| Combined                    | \$ 858.60 |
| Percentage change from 2000 | 4.6%      |

### Residential Sewer Rates:

Last adjusted: January 1, 2001  
 Next adjustment scheduled: January 1, 2002  
 Fund: Enterprise

All units \$ 4.49/HCF  
 Based on 100% of winter water consumption.

**Washington, District of Columbia****Residential Water Rates:**

Last adjusted: April 1, 2001  
Next adjustment scheduled: April 1, 2002  
Fund: Enterprise

All units \$ 1.786/HCF

Billing Frequency: Quarterly

Annual cost per 120 HCF ( $\approx$  90,000 gallons):

|                             |           |
|-----------------------------|-----------|
| Water                       | \$ 214.32 |
| Sewer                       | \$ 325.20 |
| Combined                    | \$ 539.52 |
| Percentage change from 2000 | 4.9%      |

**Residential Sewer Rates:**

Last adjusted: April 1, 1997  
Next adjustment scheduled: n/a  
Fund: Enterprise

All units \$ 2.71/HCF  
Based on 100% of water usage.

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# **APPENDIX A**

## **2000 WATER & SEWER RETAIL RATE INFORMATION**

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NOTE: Some of the 2000 rates have been adjusted to account for updated rate structure data. These changes are cited in separate text boxes within the community pages of the document.

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| COMBINED ANNUAL WATER AND SEWER CHARGES IN MWRA COMMUNITIES<br>2000<br>(Charges include MWRA, Community and alternatively supplied services)   |                 |                 |                 |             |
|--|-----------------|-----------------|-----------------|-------------|
|  | Water           | Sewer           | Combined        | Change      |
| Arlington (W/S)  | \$261.80        | \$240.00        | \$501.80        | 0.0%        |
| Ashland (S)  | 307.60          | 578.00          | 885.60          | 9.9%        |
| Bedford (S/partial W)  | 315.00          | 489.00          | 804.00          | 0.0%        |
| Belmont (W/S)  | 405.00          | 667.20          | 1,072.20        | 13.6%       |
| Boston (W/S)   | 239.09          | 411.01          | 650.10          | 0.0%        |
| Braintree (S)  | 248.00          | 512.00          | 760.00          | 0.0%        |
| Brookline (W/S)  | 384.00          | 480.00          | 864.00          | 2.9%        |
| Burlington (S)   | 102.90          | 261.20          | 364.10          | 0.0%        |
| Cambridge (S/partial W)  | 266.40          | 445.20          | 711.60          | 7.6%        |
| Canton (S/partial W)   | 212.00          | 523.20          | 735.20          | 0.0%        |
| Chelsea (W/S)  | 240.00          | 483.60          | 723.60          | 0.0%        |
| Chicopee (W)   | 224.00          | 234.25          | 458.25          | 9.6%        |
| Clinton (W/S)  | 87.60           | 65.70           | 153.30          | 0.0%        |
| Dedham (S)   | 460.44          | 646.80          | 1,107.24        | 31.8%       |
| Everett (W/S)  | 156.00          | 426.00          | 582.00          | 9.2%        |
| Framingham (W/S)   | 212.40          | 360.00          | 572.40          | 6.6%        |
| Hingham (S)  | 713.16          | 660.00          | 1,373.16        | 0.0%        |
| Holbrook (S)   | 168.00          | 384.00          | 552.00          | 0.0%        |
| Leominster (partial W)   | 168.80          | 150.40          | 319.20          | 0.0%        |
| Lexington (W/S)  | 328.00          | 692.80          | 1,020.80        | 3.9%        |
| Lynn (partial W)   | 265.30          | 442.80          | 708.10          | 3.0%        |
| Malden (W/S)   | 177.40          | 383.60          | 561.00          | 0.0%        |
| Marblehead (W)   | 272.00          | 483.00          | 755.00          | 6.8%        |
| Marlborough (partial W)  | 328.80          | 282.00          | 610.80          | 13.6%       |
| Medford (W/S)  | 281.74          | 595.32          | 877.05          | 5.4%        |
| Melrose (W/S)  | 234.00          | 508.68          | 742.68          | 0.0%        |
| Milton (W/S)   | 340.80          | 741.12          | 1,081.92        | 1.5%        |
| Nahant (W)   | 614.40          | 578.40          | 1,192.80        | 1.3%        |
| Natick (S)   | 188.80          | 685.80          | 874.60          | 0.2%        |
| Needham (S/partial W)  | 215.28          | 665.40          | 880.68          | 9.4%        |
| Newton (W/S)   | 279.20          | 538.80          | 818.00          | 3.5%        |
| Northborough (partial W)   | 249.00          | 325.00          | 574.00          | 0.0%        |
| Norwood (W/S)  | 199.80          | 459.36          | 659.16          | 2.3%        |
| Peabody (partial W)  | 227.40          | 303.60          | 531.00          | 0.0%        |
| Quincy (W/S)   | 212.40          | 444.36          | 656.76          | -0.8%       |
| Randolph (S)   | 174.00          | 384.60          | 558.60          | 2.2%        |
| Reading (S)  | 427.20          | 656.40          | 1,083.60        | 3.7%        |
| Revere (W/S)   | 187.20          | 402.00          | 589.20          | -5.8%       |
| Saugus (W)   | 141.00          | 156.00          | 297.00          | 0.0%        |
| Somerville (W/S)   | 273.60          | 426.00          | 699.60          | 5.0%        |
| Stoneham (W/S)   | 300.00          | 690.00          | 990.00          | 8.6%        |
| Stoughton (S)  | 264.52          | 825.60          | 1,090.12        | 0.0%        |
| Swampscott (W)   | 315.60          | 280.80          | 596.40          | -4.2%       |
| Wakefield (S/partial W)  | 300.00          | 668.00          | 968.00          | 3.2%        |
| Walpole (S)  | 305.88          | 446.69          | 752.57          | 2.1%        |
| Waltham (W/S)  | 185.16          | 408.72          | 593.88          | 6.3%        |
| Watertown (W/S)  | 195.40          | 463.20          | 658.60          | -5.0%       |
| Wellesley (S/partial W)  | 281.46          | 528.00          | 809.46          | 0.0%        |
| Westwood (S)   | 460.44          | 592.00          | 1,052.44        | 4.8%        |
| Weymouth (S)   | 297.92          | 669.20          | 967.12          | 17.3%       |
| Wilbraham (W)  | 222.00          | 315.60          | 537.60          | 5.7%        |
| Wilmington (S)   | 274.80          | 229.20          | 504.00          | -11.6%      |
| Winchester (S/partial W)   | 199.80          | 250.80          | 450.60          | 18.1%       |
| Winthrop (W/S)   | 306.00          | 556.80          | 862.80          | 0.0%        |
| Woburn (S/partial W)   | 136.00          | 234.00          | 370.00          | 0.0%        |
| Worcester (partial W)  | 235.20          | 163.20          | 398.40          | 3.4%        |
| <b>AVERAGE</b>   | <b>\$269.10</b> | <b>\$455.26</b> | <b>\$724.36</b> | <b>3.6%</b> |
| The following communities do not provide municipal sewer services and are therefore not listed:<br>Lynnfield Water District, South Hadley Fire District #1, Southborough and Weston.<br>*Arlington and Winchester 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 2000

|                           | WATER    | SEWER    |
|---------------------------|----------|----------|
| Arlington (W/S)*          | \$261.80 | \$240.00 |
| Ashland (S)               | -        | 578.00   |
| Bedford (S/partial W)     | 315.00   | 489.00   |
| Belmont (W/S)             | 405.00   | 667.20   |
| Boston (W/S)              | 239.09   | 411.01   |
| Braintree (S)             | -        | 512.00   |
| Brookline (W/S)           | 384.00   | 480.00   |
| Burlington (S)            | -        | 261.20   |
| Cambridge (S/partial W)   | 266.40   | 445.20   |
| Canton (S/partial W)      | 212.00   | 523.20   |
| Chelsea (W/S)             | 240.00   | 483.60   |
| Chicopee (W)              | 224.00   | -        |
| Clinton (W/S)             | 87.60    | 65.70    |
| Dedham (S)                | -        | 646.80   |
| Everett (W/S)             | 156.00   | 426.00   |
| Framingham (W/S)          | 212.40   | 360.00   |
| Hingham (S)               | -        | 660.00   |
| Holbrook (S)              | -        | 384.00   |
| Leominster (partial W)    | 168.80   | -        |
| Lexington (W/S)           | 328.00   | 692.80   |
| Lynn (partial W)          | 265.30   | -        |
| Lynnfield (W)             | 244.80   | -        |
| Malden (W/S)              | 177.40   | 383.60   |
| Marblehead (W)            | 272.00   | -        |
| Marlborough (partial W)   | 328.80   | -        |
| Medford (W/S)             | 281.74   | 595.32   |
| Melrose (W/S)             | 234.00   | 508.68   |
| Milton (W/S)              | 340.80   | 741.12   |
| Nahant (W)                | 614.40   | -        |
| Natick (S)                | -        | 685.80   |
| Needham (S/partial W)     | 215.28   | 665.40   |
| Newton (W/S)              | 279.20   | 538.80   |
| Northborough (partial W)  | 249.00   | -        |
| Norwood (W/S)             | 199.80   | 459.36   |
| Peabody (partial W)       | 227.40   | -        |
| Quincy (W/S)              | 212.40   | 444.36   |
| Randolph (S)              | -        | 384.60   |
| Reading (S)               | -        | 656.40   |
| Revere (W/S)              | 187.20   | 402.00   |
| Saugus (W)                | 141.00   | -        |
| Somerville (W/S)          | 273.60   | 426.00   |
| South Hadley (W)          | 335.60   | -        |
| Southborough (W)          | 261.60   | -        |
| Stoneham (W/S)            | 300.00   | 690.00   |
| Stoughton (S)             | -        | 825.60   |
| Swampscott (W)            | 315.60   | -        |
| Wakefield (S/partial W)   | 300.00   | 668.00   |
| Walpole (S)               | -        | 446.69   |
| Waltham (W/S)             | 185.16   | 408.72   |
| Watertown (W/S)           | 195.40   | 463.20   |
| Wellesley (S/partial W)   | 281.46   | 528.00   |
| Weston (W)                | 142.70   | -        |
| Westwood (S)              | -        | 592.00   |
| Weymouth (S)              | -        | 669.20   |
| Willbraham (W)            | 222.00   | -        |
| Wilmington (S)            | -        | 229.20   |
| Winchester (S/partial W)* | 199.80   | 250.80   |
| Winthrop (W/S)            | 306.00   | 556.80   |
| Woburn (S/partial W)      | 136.00   | 234.00   |
| Worcester (partial W)     | 235.20   | -        |
| AVERAGE                   | \$253.49 | \$494.99 |

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

\*Arlington and Winchester 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  
2000**

|             | Water    | Sewer    | Combined |
|-------------|----------|----------|----------|
| Abington    | \$348.00 | \$298.00 | \$646.00 |
| Agawam      | 151.40   | 180.36   | 331.76   |
| Ayer        | 144.00   | 270.00   | 414.00   |
| Beverly     | 229.20   | 460.80   | 690.00   |
| Brockton    | 227.00   | 223.80   | 450.80   |
| Fairhaven   | 201.60   | 402.00   | 603.60   |
| Fall River  | 105.60   | 206.40   | 312.00   |
| Fitchburg   | 236.00   | 98.60    | 334.60   |
| Gloucester  | 317.70   | 342.90   | 660.60   |
| Haverhill   | 177.60   | 205.20   | 382.80   |
| Holyoke     | 252.00   | 175.50   | 427.50   |
| Hudson      | 247.20   | 199.20   | 446.40   |
| Lawrence    | 162.00   | 168.00   | 330.00   |
| Lowell      | 142.80   | 211.92   | 354.72   |
| Medfield    | 173.00   | 249.75   | 422.75   |
| New Bedford | 133.42   | 424.00   | 557.42   |
| Salem       | 193.20   | 403.20   | 596.40   |
| Springfield | 118.80   | 155.60   | 274.40   |
| Tewksbury   | 337.50   | 252.00   | 589.50   |

**COMPARATIVE ANNUAL RESIDENTIAL WATER & SEWER CHARGES  
FOR MAJOR U.S. CITIES  
2000**

|                   | Water           | Sewer           | Combined        |
|-------------------|-----------------|-----------------|-----------------|
| Austin, TX        | \$216.42        | \$338.58        | \$555.00        |
| Boston, MA        | 239.09          | 411.01          | 650.10          |
| Columbus, OH      | 173.40          | 228.60          | 402.00          |
| Dallas, TX        | 155.16          | 266.88          | 422.04          |
| Detroit, MI       | 128.64          | 199.32          | 327.96          |
| Fort Worth, TX    | 219.60          | 244.80          | 464.40          |
| Honolulu, HI      | 181.50          | 355.03          | 536.53          |
| Houston, TX       | 259.80          | 276.30          | 536.10          |
| Indianapolis, IN  | 245.40          | 126.41          | 371.81          |
| Jacksonville, FL  | 188.10          | 371.40          | 559.50          |
| Los Angeles, CA   | 207.90          | 225.10          | 433.00          |
| Milwaukee, WI     | 174.80          | 170.39          | 345.19          |
| MWRA Service Area | 269.10          | 455.26          | 724.36          |
| New Orleans, LA   | 222.60          | 204.90          | 427.50          |
| New York, NY      | 157.20          | 249.95          | 407.15          |
| Newark, NJ        | 166.57          | 184.32          | 350.89          |
| Philadelphia, PA  | 178.20          | 342.60          | 520.80          |
| Portland, ME      | 274.08          | 478.80          | 752.88          |
| Providence, RI    | 200.04          | 146.23          | 346.27          |
| Saint Louis, MO   | 182.64          | 195.72          | 378.36          |
| Saint Paul, MN    | 176.81          | 290.40          | 467.21          |
| San Antonio, TX   | 132.14          | 178.00          | 310.14          |
| San Diego, CA     | 288.12          | 426.66          | 714.78          |
| San Francisco, CA | 192.00          | 473.05          | 665.05          |
| San Jose, CA      | 259.20          | 274.92          | 534.12          |
| Seattle, WA       | 302.20          | 518.40          | 820.60          |
| Washington, DC    | 189.12          | 325.20          | 514.32          |
| <b>AVERAGE</b>    | <b>\$206.66</b> | <b>\$294.75</b> | <b>\$501.41</b> |

# **APPENDIX B**

## **SECOND METER INFORMATION AND GLOSSARY**

## SECOND WATER METER INFORMATION

|  | Number            | Percent                 |
|--|-------------------|-------------------------|
| MWRA or partially supplied communities utilizing second meters to adjust sewer bills | YES: 33<br>NO: 27 | YES: 55.0%<br>NO: 45.0% |

## GLOSSARY

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** - 15 water, 15 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** - 11 water, 8 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** - 32 water, 33 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**

### **2000 AND 2001 WATER & SEWER RETAIL RATES BASED ON COMMUNITY WATER USE DATA**

The table below provides a comparative assessment of actual costs for water and sewer retail rate customers. The charges are prorated based on 1990 and 2000 United States Census information and domestic water usage by community, provided by local water departments to the Massachusetts Department of Environmental Protection. The Advisory Board's intent is to provide a balanced contrast to the 120 Hundred Cubic Feet (HCF), or 90,000 gallons, figure cited throughout the document. The charges below are calculated by: 1) Determining the average water use per household in each community - Domestic Water Use per Community (DEP data)/1990 or 2000 United States Census # of Households per Community. 2) Adjusting the Gallons Per Household to HCF - Gallons Per Household X 1.337. 3) Calculating the average retail rate by applying the estimated water use in HCF per household figure from the prior calendar year to each unique community retail rate structure as reflected in the Annual Advisory Board Rate Surveys.

| Community                     | Average 1999<br>Water Use Per<br>Household in<br>Hundred<br>Cubic Feet | Water Charge<br>Based On<br>Average 1999<br>Water Use Per<br>Household<br>and 2000 AB<br>Rates Survey<br>Data | Sewer Charge<br>Based On<br>Average 1999<br>Water Use Per<br>Household<br>and 2000 AB<br>Rates Survey<br>Data | Combined<br>2000 Water &<br>Sewer Charge | Average 2000<br>Water Use Per<br>Household in<br>Hundred<br>Cubic Feet | Water Charge<br>Based On<br>Average 2000<br>Water Use Per<br>Household<br>and 2001 AB<br>Rates Survey<br>Data | Sewer Charge<br>Based On<br>Average 2000<br>Water Use Per<br>Household<br>and 2001 AB<br>Rates Survey<br>Data | Combined<br>2001 Water &<br>Sewer Charge |
|-------------------------------|--|---|---|--|--|---|---|--|
| Arlington (W/S) (1)           | 91.3   | \$207   | \$183   | \$390                                    | 83.6   | \$193   | \$167   | \$360                                    |
| Ashland (S) (11)              | 124.0  | 317   | 596   | \$914                                    | 86.9   | 218   | 484   | \$702                                    |
| Bedford (W/S) (11)            | 104.4  | 265   | 414   | \$679                                    | 108.7  | 294   | 454   | \$747                                    |
| Belmont (W/S) (11)            | 123.2  | 415   | 685   | \$1,100                                  | 111.2  | 432   | 674   | \$1,106                                  |
| Boston (W/S) (11,19)          | 72.8   | 145   | 248   | \$393                                    | 65.9   | 131   | 225   | \$356                                    |
| Braintree (S) (2)             | 84.1   | 183   | 368   | \$552                                    | 78.2   | 173   | 345   | \$518                                    |
| Brookline (W/S) (11)          | 108.0  | 345   | 432   | \$777                                    | 84.5   | 287   | 346   | \$634                                    |
| Burlington (S) (2,11)         | 109.3  | 92  | 229   | \$321                                    | 79.4   | 61  | 142   | \$203                                    |
| Cambridge (S/partial W) (11)  | 69.3   | 154   | 257   | \$411                                    | 60.7   | 143   | 253   | \$396                                    |
| Canton (S/partial W)          | 123.3  | 220   | 538   | \$759                                    | 92.8   | 166   | 391   | \$557                                    |
| Chelsea (W/S) (11)            | 99.9   | 200   | 403   | \$602                                    | 81.4   | 163   | 328   | \$491                                    |
| Chicopee (W) (10)             | 84.1   | 159   | 176   | \$335                                    | 84.2   | 160   | 176   | \$336                                    |
| Dedham (S) (8,10,11)          | 83.2   | 335   | 449   | \$783                                    | 75.4   | 318   | 406   | \$724                                    |
| Everett (W/S) (3)             | 89.7   | 117   | 319   | \$435                                    | 76.3   | 99  | 271   | \$370                                    |
| Framingham (W/S) (11)         | 106.8  | 189   | 320   | \$510                                    | 99.7   | 199   | 296   | \$495                                    |
| Holbrook (S)                  | 80.1   | 112   | 256   | \$368                                    | 77.4   | 108   | 248   | \$356                                    |
| Lexington (W/S) (11)          | 105.9  | 279   | 588   | \$868                                    | 100.2  | 265   | 573   | \$838                                    |
| Lynnfield (W) (4,13)          | 107.0  | 221   | NA  | NA                                       | 101.2  | 226   | NA  | NA                                       |
| Malden (W/S)                  | 64.0   | 89  | 167   | \$256                                    | 65.9   | 100   | 173   | \$273                                    |
| Marblehead (W) (11)           | 112.7  | 257   | 455   | \$712                                    | 85.7   | 218   | 366   | \$585                                    |
| Marlborough (partial W) (11)  | 86.4   | 237   | 203   | \$440                                    | 74.0   | 203   | 174   | \$377                                    |
| Medford (W/S) (5)             | 66.5   | 156   | 330   | \$486                                    | 66.8   | 168   | 321   | \$489                                    |
| Melrose (W/S) (10)            | 70.4   | 137   | 298   | \$436                                    | 64.0   | 138   | 277   | \$415                                    |
| Milton (W/S) (11)             | 128.8  | 350   | 805   | \$1,155                                  | 111.9  | 325   | 731   | \$1,055                                  |
| Nahant (W) (11)               | 91.5   | 468   | 441   | \$909                                    | 84.9   | 435   | 409   | \$844                                    |
| Natick (S) (11,14)            | 93.4   | 125   | 514   | \$639                                    | 87.5   | 118   | 509   | \$628                                    |
| Needham (S/partial W) (11)    | 113.9  | 203   | 629   | \$832                                    | 98.5   | 172   | 590   | \$763                                    |
| Newton (W/S)                  | 117.5  | 273   | 526   | \$799                                    | 90.8   | 198   | 402   | \$600                                    |
| Northborough (partial W) (15) | 86.8   | 178   | 233   | \$411                                    | 66.5   | 136   | 178   | \$314                                    |
| Norwood (W/S) (10,11)         | 107.4  | 176   | 396   | \$572                                    | 99.0   | 188   | 354   | \$542                                    |
| Peabody (partial W) (11)      | 109.7  | 207   | 276   | \$483                                    | 89.4   | 167   | 223   | \$390                                    |
| Quincy (W/S) (10,11)          | 74.2   | 131   | 275   | \$406                                    | 58.9   | 118   | 228   | \$347                                    |
| Randolph (S)                  | 106.2  | 154   | 324   | \$478                                    | 102.2  | 158   | 307   | \$465                                    |
| Reading (S) (16)              | 89.2   | 317   | 488   | \$805                                    | 71.5   | 262   | 368   | \$630                                    |
| Revere (W/S) (11)             | 77.8   | 121   | 261   | \$382                                    | 75.2   | 113   | 285   | \$398                                    |
| Saugus (W) (6,11)             | 98.9   | 86  | 126   | \$213                                    | 104.7  | 110   | 135   | \$244                                    |
| Somerville (W/S)              | 87.8   | 200   | 312   | \$512                                    | 72.2   | 177   | 276   | \$452                                    |
| South Hadley (W) (13)         | 80.2   | 231   | NA  | NA                                       | 65.9   | 201   | NA  | NA                                       |
| Southborough (W) (13)         | 186.1  | 406   | NA  | NA                                       | 165.4  | 361   | NA  | NA                                       |

| Community                    | Average 1999<br>Water Use Per<br>Household in<br>Hundred<br>Cubic Feet | Water Charge<br>Based On<br>Average 1999<br>Water Use Per<br>Household<br>and 2000 AB<br>Rates Survey<br>Data | Sewer Charge<br>Based On<br>Average 1999<br>Water Use Per<br>Household<br>and 2000 AB<br>Rates Survey<br>Data | Combined<br>2000 Water &<br>Sewer Charge | Average 2000<br>Water Use Per<br>Household in<br>Hundred<br>Cubic Feet | Water Charge<br>Based On<br>Average 2000<br>Water Use Per<br>Household<br>and 2001 AB<br>Rates Survey<br>Data | Sewer Charge<br>Based On<br>Average 2000<br>Water Use Per<br>Household<br>and 2001 AB<br>Rates Survey<br>Data | Combined<br>2001 Water &<br>Sewer Charge |
|------------------------------|--|---|---|--|--|---|---|--|
| Swampscott (W) (7,11)        | 106.4  | 280   | 249   | \$529                                    | 75.0   | 233   | 180   | \$413                                    |
| Wakefield (S/partial W)      | 86.3   | 236   | 503   | \$739                                    | 105.0  | 282   | 626   | \$908                                    |
| Walpole (S) (10,11)          | 107.7  | 275   | 401   | \$676                                    | 90.9   | 238   | 353   | \$591                                    |
| Waltham (W/S) (11)           | 114.5  | 176   | 388   | \$564                                    | 98.6   | 163   | 336   | \$499                                    |
| Watertown (W/S) (11,17)      | 76.2   | 98  | 294   | \$392                                    | 94.5   | 153   | 379   | \$531                                    |
| Wellesley (S/partial W) (11) | 131.5  | 305   | 577   | \$881                                    | 111.7  | 267   | 511   | \$778                                    |
| Weston (W) (13)              | 199.8  | 295   | NA  | NA                                       | 161.1  | 221   | NA  | NA                                       |
| Westwood (S) (11)            | 83.2   | 335   | 401   | \$736                                    | 75.4   | 318   | 392   | \$709                                    |
| Weymouth (S)                 | 71.4   | 179   | 378   | \$557                                    | 66.2   | 168   | 352   | \$520                                    |
| Wilbraham (W) (18)           | 103.2  | 191   | 271   | \$462                                    | 71.8   | 136   | 189   | \$325                                    |
| Wilmington (S)               | 155.8  | 357   | 298   | \$655                                    | 117.0  | 288   | 250   | \$538                                    |
| Winchester (S/partial W) (1) | 134.6  | 238   | 299   | \$537                                    | 114.6  | 186   | 233   | \$418                                    |
| Winthrop (W/S) (9)           | 77.2   | 197   | 358   | \$555                                    | 76.3   | 194   | 354   | \$548                                    |

- (1) Arlington and Winchester utilize the debt service exclusion as permitted under General Law 59 Section 21C(n).
- (2) Water use information for Burlington and Braintree was unavailable for Calendar Year 1999. Calendar Year 1998 water use data is utilized for the 2000 rates calculation.
- (3) 1999 and 2000 data for Everett is based on an estimated residential water use of 55% of total water purchased from the MWRA.
- (4) Lynnfield Water District consists of 1,400 households.
- (5) Residential water use in Medford is estimated at 63% for 1999.
- (6) Water use data for Saugus is based on MWRA readings for Calendar Year 1999. Residential use is estimated at 56% of total water use for 1999.
- (7) Swampscott sold 442 MG in CY1999, according to MWRA Figures. Residential use is estimated at 95% of total water sales.
- (8) The 2000 Rates Survey incorrectly reflected Dedham's sewer rate at 60% of water usage. Dedham's Sewer rates have been revised for the 2000 and 2001 surveys to depict the accurate rate at 100% water usage.
- (9) Winthrop sold 511 MG in CY1999. Residential use is estimated at 86% for 1999.
- (10) Communities offer discounted sewer rates based upon a percentage of water usage to adjust sewer bills.
- (11) Communities allow for the use of second water meters to adjust sewer bills.
- (12) Water use data for Clinton, Hingham, Leominster, Lynn, Woburn and Worcester has not been tabulated.
- (13) The following communities do not provide municipal sewer services: Lynnfield Water District, South Hadley Fire District #1, Southborough and Weston.
- (14) The 2000 Rates Survey should have listed the Natick minimum sewer charge as \$23.10 for the first 7 HCF. The 2000 sewer charge has subsequently been adjusted.
- (15) Appendix C of the 2000 Rates Survey incorrectly calculated the 2000 sewer charge for Northborough as \$464. The 2000 Northborough sewer rate has been corrected to reflect a sewer rate of \$232.
- (16) Appendix C of the 2000 Rates Survey incorrectly calculated the 2000 water charge for Reading as \$304. The 2000 Reading water rate has been corrected to reflect a water rate of \$317.
- (17) Appendix C of the 2000 Rates Survey incorrectly calculated the 2000 water charge for Watertown as \$108. The 2000 Watertown water rate has been corrected to reflect a water rate of \$98.
- (18) The community-wide Wilbraham 1999 annual water use figure has been altered from 447.2 MG to 355.2 as per the figure cited by Massachusetts DEP. The 1999 water and sewer charges for Wilbraham have been adjusted accordingly.
- (19) The City of Boston (Boston Water and Sewer Commission) water use figure for calendar year 2000 is estimated at 11,807.14 million gallons. This estimate is based upon a detailed land use breakdown provided by the Boston Water and Sewer Commission and includes half of the "residential/commercial" land use category. This is consistent with estimates made by the MWRA in water use analysis during the mid-1990's.

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# **APPENDIX D**

## **FINAL MWRA FISCAL YEAR 2002 BILLABLE WATER AND SEWER CHARGES**

**MASSACHUSETTS WATER RESOURCES AUTHORITY  
FINAL FY02 BILLABLE WATER AND SEWER CHARGES**

| MWRA CUSTOMER  | FY02 Water<br>Assessment | % Change<br>from FY01 | FY02 Sewer<br>Assessment | % Change<br>from FY01 | FY02<br>Combined<br>Assessment | % Change<br>from FY01 |
|----------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------------|-----------------------|
| ARLINGTON      | \$2,234,851              | 12.8%                 | \$5,386,738              | 2.6%                  | \$7,621,589                    | 5.4%                  |
| ASHLAND        | 0                        | 0.0%                  | 1,055,463                | 11.3%                 | 1,055,463                      | 11.3%                 |
| BEDFORD        | 0                        | 0.0%                  | 2,205,320                | 2.1%                  | 2,205,320                      | 2.1%                  |
| BELMONT        | 1,262,884                | 4.7%                  | 3,565,854                | 0.2%                  | 4,828,738                      | 1.3%                  |
| BOSTON         | 42,401,426               | 12.6%                 | 78,179,472               | 1.4%                  | 120,580,898                    | 5.1%                  |
| BRAINTREE      | 0                        | 0.0%                  | 5,442,499                | 2.5%                  | 5,442,499                      | 2.5%                  |
| BROOKLINE      | 3,026,248                | 9.4%                  | 8,555,199                | 3.2%                  | 11,581,447                     | 4.8%                  |
| BURLINGTON     | 0                        | 0.0%                  | 3,091,530                | 2.6%                  | 3,091,530                      | 2.6%                  |
| CAMBRIDGE      | 0                        | 0.0%                  | 14,139,115               | 1.3%                  | 14,139,115                     | 1.3%                  |
| CANTON *       | 832,856                  | -8.7%                 | 2,786,652                | -1.0%                 | 3,619,508                      | -2.9%                 |
| CHELSEA        | 1,616,898                | 11.9%                 | 3,798,116                | 2.2%                  | 5,415,014                      | 4.9%                  |
| DEDHAM         | 0                        | 0.0%                  | 4,274,838                | -2.2%                 | 4,274,838                      | -2.2%                 |
| EVERETT        | 2,484,777                | 16.2%                 | 4,986,368                | 2.9%                  | 7,471,145                      | 7.0%                  |
| FRAMINGHAM     | 4,031,001                | 9.5%                  | 7,601,442                | -1.7%                 | 11,632,443                     | 1.9%                  |
| HINGHAM        | 0                        | 0.0%                  | 1,029,856                | -0.2%                 | 1,029,856                      | -0.2%                 |
| HOLBROOK       | 0                        | 0.0%                  | 971,682                  | 7.6%                  | 971,682                        | 7.6%                  |
| LEOMINSTER     | 0                        | 0.0%                  | 0                        | 0.0%                  | 0                              | 0.0%                  |
| LEXINGTON      | 2,578,795                | 1.8%                  | 4,607,024                | -1.1%                 | 7,185,819                      | -0.1%                 |
| LYNN *         | 164,456                  | 23.7%                 | 0                        | 0.0%                  | 164,456                        | 23.7%                 |
| LYNNFIELD      | 237,153                  | 12.2%                 | 0                        | 0.0%                  | 237,153                        | 12.2%                 |
| MALDEN         | 2,842,035                | 15.4%                 | 7,234,875                | 2.9%                  | 10,076,910                     | 6.2%                  |
| MARBLEHEAD     | 953,911                  | 6.9%                  | 0                        | 0.0%                  | 953,911                        | 6.9%                  |
| MEDFORD        | 2,632,241                | 12.1%                 | 7,682,238                | 1.9%                  | 10,314,479                     | 4.3%                  |
| MELROSE        | 1,267,779                | 9.9%                  | 3,585,784                | 1.5%                  | 4,853,563                      | 3.5%                  |
| MILTON         | 1,272,559                | 5.1%                  | 3,814,254                | 0.3%                  | 5,086,813                      | 1.5%                  |
| NAHANT         | 166,051                  | 6.0%                  | 0                        | 0.0%                  | 166,051                        | 6.0%                  |
| NATICK         | 0                        | 0.0%                  | 3,398,198                | -0.1%                 | 3,398,198                      | -0.1%                 |
| NEEDHAM *      | 157,904                  | -73.7%                | 4,378,298                | -2.2%                 | 4,536,202                      | -10.6%                |
| NEWTON         | 4,922,364                | 7.9%                  | 13,834,495               | -0.3%                 | 18,756,859                     | 1.7%                  |
| NORTHBOROUGH * | 114,665                  | -13.6%                | 0                        | 0.0%                  | 114,665                        | -13.6%                |
| NORWOOD        | 1,614,491                | 12.5%                 | 4,643,696                | -0.3%                 | 6,258,187                      | 2.7%                  |
| PEABODY *      | 234,263                  | -46.2%                | 0                        | 0.0%                  | 234,263                        | -46.2%                |
| QUINCY         | 4,885,173                | 12.0%                 | 12,563,676               | 0.7%                  | 17,448,849                     | 3.7%                  |
| RANDOLPH       | 0                        | 0.0%                  | 3,732,184                | 1.2%                  | 3,732,184                      | 1.2%                  |
| READING        | 0                        | 0.0%                  | 2,732,923                | 2.9%                  | 2,732,923                      | 2.9%                  |
| REVERE         | 2,181,209                | 13.4%                 | 5,949,260                | 3.4%                  | 8,130,469                      | 5.9%                  |
| SAUGUS         | 1,578,469                | 6.8%                  | 0                        | 0.0%                  | 1,578,469                      | 6.8%                  |
| SOMERVILLE     | 3,395,839                | 17.6%                 | 10,791,423               | 6.4%                  | 14,187,262                     | 8.9%                  |
| STONEHAM       | 1,776,943                | 7.9%                  | 3,438,194                | 3.3%                  | 5,215,137                      | 4.8%                  |
| STOUGHTON      | 0                        | 0.0%                  | 3,126,471                | 0.3%                  | 3,126,471                      | 0.3%                  |
| SWAMPSCOTT     | 929,536                  | 12.3%                 | 0                        | 0.0%                  | 929,536                        | 12.3%                 |
| WAKEFIELD *    | 1,029,073                | 12.3%                 | 3,946,128                | 3.1%                  | 4,975,201                      | 4.9%                  |
| WALPOLE        | 0                        | 0.0%                  | 2,295,546                | 1.3%                  | 2,295,546                      | 1.3%                  |
| WALTHAM        | 4,077,830                | 11.6%                 | 8,686,201                | 2.5%                  | 12,764,031                     | 5.3%                  |
| WATERTOWN      | 1,492,844                | 11.4%                 | 3,979,861                | 2.8%                  | 5,472,705                      | 5.0%                  |
| WELLESLEY *    | 183,713                  | -61.2%                | 3,565,042                | 1.8%                  | 3,748,755                      | -5.7%                 |
| WESTON         | 728,201                  | -7.3%                 | 0                        | 0.0%                  | 728,201                        | -7.3%                 |
| WESTWOOD       | 0                        | 0.0%                  | 1,609,715                | 1.6%                  | 1,609,715                      | 1.6%                  |
| WEYMOUTH       | 0                        | 0.0%                  | 7,439,128                | 0.8%                  | 7,439,128                      | 0.8%                  |
| WILMINGTON     | 0                        | 0.0%                  | 1,557,905                | 4.6%                  | 1,557,905                      | 4.6%                  |
| WINCHESTER *   | 552,373                  | -15.5%                | 2,668,602                | 3.8%                  | 3,220,975                      | -0.1%                 |
| WINTHROP       | 743,515                  | 16.1%                 | 2,002,837                | 3.1%                  | 2,746,352                      | 6.3%                  |
| WOBURN *       | 1,743,033                | 14.5%                 | 6,837,010                | -3.9%                 | 8,580,043                      | -0.7%                 |
| <b>TOTAL</b>   | <b>\$102,347,359</b>     | <b>9.8%</b>           | <b>\$287,171,111</b>     | <b>1.4%</b>           | <b>\$389,518,470</b>           | <b>3.5%</b>           |

\* Communities Receive Partial MWRA Water Service.

## ADVISORY BOARD MEMBERS

| CITY/TOWN    | CEO                        | DESIGNEE                       |
|--------------|----------------------------|--------------------------------|
| ARLINGTON    | Charles Lyons              | Philip J. Farrington*          |
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| BOSTON       | Hon. Thomas Menino         | John Sullivan, Jr.*            |
| BRAINTREE    | James Casey                | Darrin Mc Auliffe              |
| BROOKLINE    | Donna Kalikow              | Charles Barry                  |
| BURLINGTON   | Juliet Perdichizzi         | Syamal Chaudhuri               |
| CAMBRIDGE    | Hon. Anthony Galluccio     | Timothy MacDonald*             |
| CANTON       | Avril Elkort               | Edward Sullivan*               |
| CHELSEA      | Jay Ash                    | Andrew DeSantis*               |
| CHICOPEE     | Hon. Richard Kos           | Christopher Golba              |
| CLINTON      | Mark Elworthy              |                                |
| DEDHAM       | Thomas Polito, Jr.         | Paul G. Keane                  |
| EVERETT      | Hon. David Ragucci         | David Ravanese                 |
| FRAMINGHAM   | Charles J. Sisitsky        | Albert Renzi, Jr.*             |
| HINGHAM      | Katherine Reardon          |                                |
| HOLBROOK     | James A. Reichert          | Thomas Cummings                |
| LEOMINSTER   | Hon. Dean Mazzarella       |                                |
| LEXINGTON    | Jeanne Kreiger             | William Hadley*/Ralph Pecora   |
| LYNN         | Hon. Patrick McManus       |                                |
| LYNNFIELD    | Marc Miller                | Bruce Kenerson                 |
| MALDEN       | Hon. Richard C. Howard     |                                |
| MARBLEHEAD   | William L. Woodfin II      | Dana Snow*                     |
| MARLBOROUGH  | Hon. William J. Mauro, Jr. | Doran Crouse                   |
| MEDFORD      | Hon. Michael McGlynn       | Gabriel Federico               |
| MELROSE      | Hon. Patrick Guerriero     | Peter Hersey*                  |
| MILTON       | Charles McCarthy           | Katherine Haynes Dunphy**      |
| NAHANT       | Richard Lombard            |                                |
| NATICK       | Charles M. Hughes          | John Craig                     |
| NEEDHAM      | John H. Cogswell           | Stanley Stanzin*               |
| NEWTON       | Hon. David Cohen           | Jay Fink*                      |
| NORTHBOROUGH | Dawn Rand                  | Kara Buzanoski/John L. Meader  |
| NORWOOD      | Gary M. Lee                | Bernard Cooper*                |
| PEABODY      | Hon. Peter Torigian        | Peter Smyrnios                 |
| QUINCY       | Hon. James A. Sheets       | Ed Nelson                      |
| RANDOLPH     | James Burgess              | Paul J. Connors                |
| READING      | George Hines               | Edward D. McIntire, Jr.*       |
| REVERE       | Hon. Thomas G. Ambrosino   | Rod Granese/Donald Goodwin     |
| SAUGUS       | Janette Fasano             | Joseph Attubato                |
| SOMERVILLE   | Hon. Dorothy Kelly Gay     | F. Thomas Donahue              |
| SOUTH HADLEY | Thomas W. O'Donnell        | John Mikuszewski               |
| SOUTHBOROUGH | David A. Coombs            | Donald Buzzell                 |
| STONEHAM     | Anthony C. Kennedy         | Jeffrey Oxman                  |
| STOUGHTON    | Joseph Mokrisky            | Jeanne Fleming                 |
| SWAMPSCOTT   | Carole Shutzer             | Silvio J. Baruzzi              |
| WAKEFIELD    | Stephen P. Maio            | Richard Stinson                |
| WALPOLE      | William P. Ryan            | Patrick Fasanello              |
| WALTHAM      | Hon. David F. Gately       | David L. Savoy*                |
| WATERTOWN    | Clyde Younger              | Gerald Mee                     |
| WELLESLEY    | Laurence D. Shind          | Walter Woods*                  |
| WESTON       | Ripley Hastings            | Earl J. Forman                 |
| WESTWOOD     | Thomas Dunn                | Philip Caruso/J. Timothy Walsh |
| WEYMOUTH     | Hon. David Madden          | Bradley Hayes                  |
| WILBRAHAM    | James E. Thompson          | Albert Kirk                    |
| WILMINGTON   | Robert J. Cain             | Michael Woods/Robert Antico    |
| WINCHESTER   | Elizabeth Cregger          | Karl Fryzel/George Zambouras   |
| WINTHROP     | Gerald B. Ogus             |                                |
| WOBURN       | Hon. Robert M. Dever       | Fred Russell                   |
| WORCESTER    | Hon. Raymond Mariano       | 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 C. Foti - *Somerville*