Water Rates in **Delaware and Surrounding States**

Draft December 2017

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Introduction

The University of Delaware Water Resources Center (DWRC) conducted a survey of water rates for public and investor-owned water utilities within Delaware and surrounding states of Pennsylvania, New Jersey, and Maryland. This 2017 survey is an update of previous reports prepared in 2000, 2004, 2008, 2011, 2012, 2013, and 2015.

Note that the costs and rates charged for water services differ in many respects between public and investor-owned purveyors. For example, public purveyors have sources of capital and revenue that are assumed by the tax payers but are not reflected in the water rates. For such public purveyors, finances can be intermingled with other municipal departments, thus revenues and costs are shared with other city functions. Investor-owned purveyors, unlike public purveyors, can charge rates to cover operating costs and earn profit. Additionally, expenses paid by investor-owned purveyors, primarily taxes, are not paid by the public purveyor. It is important to consider this information related to water service and rates charged for water service (which often varies by state) when comparing public- and investor-owned purveyors. Additional information on this topic can be found by reading the EPA "Four Pillars Approach – Rates that Reflect the Full Cost of Services" at http://www.epa.gov/waterinfrastructure/.

Methods

The DWRC contacted water utilities by e-mail, telephone, or website and collected water rate and tariff data from over 50 water purveyors in the four states. We used these assumptions to compute residential water rates: (a) quarterly residential water use equal to 15,000 gallons per customer (5,000 gallons per month and (b) the average residential water meter is 5/8 inch or 3/4-inch diameter.

The following formula was used to calculate the average residential water rate per quarter:

$$AOC = SC + FP + X(OCR) + OU + DC$$

Where:

AQC = Average Quarterly Charge (\$/quarter)

SC = Service Charge (\$/quarter)

FP = Fire Protection Fee (\$/quarter)

X = Quarterly Residential Water Use (15,000 gallons/quarter)

QCR = Quarterly Consumption Rate (\$/1,000 gallons)

QU = Quarterly Use Fee (\$/quarter)

DC = Distribution Improvement Charge (\$/quarter)

Assuming the average residential unit uses an average of 15,000 gallons per quarter, AQC (\$/quarter) is divided by 15 and this value is equal to the quarterly rate per 1,000 gallons. Two additional conversions are important for analysis. If the water purveyor charges monthly fees rather than quarterly fees, the water rates are converted to quarterly rates by multiplying the monthly rate by three.

If the water purveyor charges fees based on cubic feet rather than gallons, the rates are converted given that 1 cubic foot = 7.48 gallons. See the following sample calculation of residential water rates.

Given:

AQC = Average Quarterly Charge = \$X/quarter

SC = Service Charge = \$20.00/quarter FP = Fire Protection Fee = \$5.00/quarter

X = 15,000 gallons used quarterly

QCR = Quarterly Consumption Rate = \$2.00/1,000 gallons

QU = Quarterly Use Fee = \$0.00/quarter DC = Distribution Charge = \$0.00/quarter

Therefore:

AQC = \$20.00 + \$5.00 + 15,000(\$2.00/1,000 gal) + \$0.00 + \$0.00 = \$55.00/quarter

Average Quarterly Rate = AQC/15 = \$55.00/15 = \$3.67/1,000 gal

Summary

The water rate survey includes public and investor-owned utilities in Delaware and surrounding states of Pennsylvania, New Jersey, and Maryland. For all water purveyors surveyed, the 2017 mean water rate is \$6.94/1,000 gallons and rates range from \$1.73/1000 gallons to \$14.21/1000 gallons (Table 1). The mean water rate ranges from \$6.51/1,000 gallons for public water purveyors to \$12.29 for investor-owned water purveyors. Tables 2 through 7 summarize water rates for water purveyors in Delaware, Maryland, New Jersey, and Pennsylvania.

Table 1. Mean residential water rates (2000-2017)

| Purveyor Category | 2000 Mean (\$/1,000 gal) | 2004 Mean (\$/1,000 gal) | 2008 Mean (\$/1,000 gal) | 2011 Mean (\$/1,000 gal) | 2015 Mean (\$/1,000 gal) | 2017 Mean (\$/1,000 gal) |
|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Public | 2.97 | 3.32 | 4.44 | 5.34 | 6.13 | 6.51 |
| Investor | 4.85 | 6.24 | 6.46 | 9.02 | 10.90 | 12.29 |
| All | 3.29 | 3.70 | 4.78 | 5.69 | 6.45 | 6.94 |

Assumes quarterly residential water use of 15,000 gallons per customer

Table 2. Residential water rates in Maryland (2000-2017)

| Purveyor | 2000 (\$/1,000 gal) | 2004 (\$/1,000 gal) | 2008 (\$/1,000 gal) | 2011 (\$/1,000 gal) | 2015 (\$/1,000 gal) | 2017 (\$/1,000 gal) |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Baltimore City DPW | | | 1.51 | 3.75 | | 4.43 |
| Cecil County DPW | | | 7.00 | 7.00 | 9.73 | |
| Elkton | 1.62 | | | | | |
| Inside Town | | 1.75 | 2.15 | 2.80 | 4.16 | 4.16 |
| Outside Town | | 3.50 | 4.30 | 5.60 | 8.32 | 8.32 |
| Perryville Water Dept. | 3.00 | 3.00 | 6.67 | 7.25 | 7.41 | 8.31 |

Table 3. Residential water rates in New Castle County, Delaware (2000-2017)

| Purveyor | 2000 (\$/1,000 gal) | 2004 (\$/1,000 gal) | 2008 (\$/1,000 gal) | 2012 (\$/1,000 gal) | 2013 (\$/1,000 gal) | 2015 (\$/1,000 gal) | 2017 (\$/1,000 gal) |
|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Artesian Water Co. | 4.90 | 6.17 | 8.43 | 10.34 | 10.54 | 12.47 | 12.90 |
| Delaware City | 3.14 | 4.24 | 5.85 | 5.85 | 5.85 | 5.85 | 5.85 |
| Middletown | | 3.08 | 2.56 | | | | |
| Newark | | | | | | | |
| Inside City | | 3.34 | 3.34 | 5.92 | 6.22 | 7.15 | 7.84 |
| (Dec-Aug) | 1.82 | | | | | | |
| (Sep-Nov) | 2.11 | | | | | | |
| Outside City | | 4.65 | 4.65 | 8.16 | 8.57 | 9.84 | 10.52 |
| (Dec-Aug) | 2.43 | | | | | | |
| (Sep-Nov) | 2.82 | | | | | | |
| New Castle MSC | 3.40 | 4.28 | | | | | |
| (Oct-Jun) | | | 5.20 | 6.84 | 6.84 | 8.95 | 8.95 |
| (Jul-Sep) | | | 5.38 | 9.47 | 9.47 | 9.13 | 9.13 |
| Tidewater Utilities | 4.89 | 5.95 | 8.60 | 12.48 | 12.56 | 12.90 | 13.17 |
| United Water DE (SUEZ) | 4.90 | 4.70 | 5.44 | 6.28 | 7.83 | 7.83 | 8.84 |
| Wilmington | | | | | | | |
| Inside City | 1.70 | 1.77 | 2.95 | 4.88 | 5.32 | 6.26 | 6.47 |
| Outside City | 2.86 | 3.34 | 4.97 | 8.23 | 8.97 | 10.54 | 10.90 |

Assumes quarterly residential water use of 15,000 gallons per customer

Table 4. Residential water rates in Kent County, Delaware (2000-2017)

| Purveyor | 2000 | 2004 | 2008 | 2011 | 2015 | 2017 |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| rurveyor | (\$/1,000 gal) |
| Camden-Wyoming | | 6.16 | 7.14 | 7.14 | 7.14 | 6.98 |
| Clayton Water | | 2.17 | 3.83 | 4.10 | 4.73 | 4.73 |
| Dover | | | | | | |
| Inside City | 1.90 | 2.35 | 2.53 | 3.08 | 3.17 | 3.17 |
| Outside City | 2.85 | 3.53 | 3.76 | 4.48 | 4.67 | 4.67 |
| Felton | | | | | | |
| Inside Town | | 2.53 | 2.53 | 2.53 | | 5.40 |
| Outside Town | | 3.80 | | | | 7.77 |
| Frederica | | 3.33 | 4.33 | 4.33 | | 7.61 |
| Harrington | | 2.24 | 5.58 | 6.41 | | 5.58 |
| Magnolia | | | | | | |
| Inside Town | | 3.33 | 3.67 | 3.67 | 3.67 | 3.67 |
| Outside Town | | 4.00 | 4.33 | 4.33 | 4.33 | |
| Smyrna | | | | | | |
| Inside Town | | 2.87 | 2.87 | 5.40 | 4.63 | 5.33 |
| Outside Town | | | 5.33 | 10.80 | 9.27 | 10.65 |

Table 5. Residential water rates in Sussex County, Delaware (2000-2017)

| | 2000 | 2004 | 2008 | 2011 | 2015 | 2017 |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Purveyor | (\$/1,000 gal) |
| Bridgeville | , , , | 3.58 | 3.00 | 3.53 | 3.53 | 3.80 |
| Delmar | | 2.50 | 2.50 | 4.55 | 5.10 | 4.55 |
| Georgetown | | | | | | |
| Inside Town | 2.75 | 2.82 | 5.43 | 5.43 | 5.46 | 6.21 |
| Outside Town | | 4.23 | 6.98 | 6.98 | 7.03 | 8.15 |
| Greenwood | | 4.00 | 6.40 | 6.40 | 4.40 | 6.00 |
| Laurel | | 3.95 | 3.74 | 3.74 | 3.74 | 6.15 |
| Lewes Public Works | | | | | | |
| Inside City | 1.72 | 2.71 | 2.46 | 4.56 | 4.57 | 4.85 |
| Outside City | | | 3.20 | 6.69 | 6.62 | 6.74 |
| Milford | | | | | | |
| Inside City | 2.33 | 2.20 | 3.67 | 3.67 | 3.95 | 3.95 |
| Outside City | | 3.50 | 5.50 | 5.50 | | |
| Millsboro | | 1.70 | 3.00 | 3.00 | | |
| Milton | | 3.63 | | | | |
| Inside Town | | | 5.33 | 5.33 | 5.33 | 6.17 |
| Outside Town | | | 7.67 | 7.67 | 7.67 | 8.83 |
| Rehoboth Beach | | | | | | |
| Inside City | | | | | | |
| (Oct-Mar) | 1.33 | 1.49 | 2.00 | 2.30 | 2.30 | 2.73 |
| (Apr-Sep) | 1.83 | 2.15 | 2.87 | 3.30 | 3.30 | 3.73 |
| Outside City | | | | | | |
| (Oct-Mar) | 2.67 | 2.98 | 4.00 | 4.60 | 4.61 | 4.83 |
| (Apr-Sep) | 3.67 | 4.30 | 5.74 | 6.60 | 6.61 | 6.83 |
| Seaford | | 2.08 | 2.08 | 2.08 | 2.44 | 2.44 |
| Selbyville | | 3.60 | 4.27 | 4.27 | 4.27 | 4.27 |
| Sussex County DPW | 2.45 | 3.80 | 2.95 | 3.09 | 3.09 | 5.10 |

Assumes quarterly residential water use of 15,000 gallons per customer

Table 6. Residential water rates in New Jersey (2000-2017)

| Danarrarran | 2000 | 2004 | 2008 | 2011 | 2015 | 2017 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Purveyor | (\$/1,000 gal) |
| Berlin Borough | | 3.00 | 4.33 | 4.33 | 4.63 | 4.63 |
| Brick Township MUA | | 4.18 | | | | |
| Camden | 3.70 | 3.70 | 3.70 | 4.76 | 4.78 | 7.70 |
| Evesham MUA | | 2.78 | | | | |
| Inside Township | | | 2.25 | 7.70 | | 2.65 |
| Outside Township | | | 2.65 | 7.09 | | 3.31 |
| Medford Twp. Utilities | | 2.30 | 2.49 | 4.00 | 4.00 | 4.00 |
| Merchantville-Pennsauken | 1.88 | 1.88 | 1.88 | 2.36 | 3.13 | 4.62 |
| NJ American Water Co. | 5.22 | 5.96 | | | | |
| Non-exempt | | | 6.83 | 7.70 | | 7.70 |
| Exempt | | | 5.92 | 7.09 | | |
| Salem | 2.89 | 5.71 | 2.93 | 2.93 | 4.13 | 4.13 |
| Trenton | 3.27 | 3.27 | 7.09 | 7.09 | 5.91 | 9.92 |
| Washington Twp. MUA | | 2.17 | 1.73 | 1.73 | 1.73 | 2.28 |

Table 7. Residential water rates in Pennsylvania (2000-2017)

| Purveyor | 2000 | 2004 | 2008 | 2011 | 2015 | 2017 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | (\$/1,000 gal) |
| Ambler Borough | | 3.84 | 5.79 | 5.79 | 5.46 | 8.21 |
| Aqua Pennsylvania | 5.36 | 7.02 | 10.27 | 10.27 | 11.25 | 13.38 |
| Bucks County WSA | | 3.45 | | | | 9.70 |
| New Hope, Solebury | | | 4.82 | 4.82 | 6.57 | |
| Middletown Township | | | 3.93 | 3.93 | | |
| Langhorne & Penndel | | | 4.02 | 4.02 | | |
| Chester Water Authority | | | | | | |
| Village Green East | 4.20 | 5.40 | 6.14 | 9.18 | | 9.18 |
| Village Green West | 5.33 | 6.28 | 7.06 | 10.22 | 8.34 | 10.76 |
| Coatesville (PAWCo) | 5.88 | 6.50 | 9.21 | 10.49 | | |
| Downingtown MWA | 5.75 | 6.50 | 7.65 | 9.58 | 13.30 | 13.45 |
| Lehigh County Authority | | 2.70 | | | | |
| Madison Park North | | | | 8.28 | | 8.28 |
| Upper Milford | | | | 6.87 | | 6.87 |
| Welshtown Road | | | | 6.55 | | 6.57 |
| Newtown Artesian Water | | 5.58 | 8.46 | | | |
| Newtown Artesian | | | | 5.68 | 6.70 | 6.74 |
| Indian Rock Area | | | | 6.64 | | 7.22 |
| North Wales Water Auth. | 4.40 | 4.40 | | | | 4.40 |
| (Nov-Mar) | | | 4.40 | 4.40 | 4.40 | |
| (Apr-Oct) | | | 6.00 | 6.00 | 6.00 | |
| PA American Water Co. | | 7.38 | 9.21 | 10.49 | 10.49 | 13.14 |
| Philadelphia Water Dept. | 2.17 | 2.91 | 3.93 | 5.18 | 6.68 | 7.08 |
| Phoenixville Water Dept. | | 4.10 | | | 3.65 | |
| Inside Borough | | | | | | 8.45 |
| Outside Borough | | | | | | 7.24 |

Appendix A
Residential Water Rates, New Castle County, Delaware (2017)

| 2017 | Α | В | | С | • | D | A+B+C+D=E | E/15= F | E x 4 = G |
|----------------------|--------------------------------------|---------------------------|-------------------------------------|--|-------------------------------------|-----------------------------|--------------------------|----------------------------------|-----------------------|
| Water Utility | Service Charge (\$) | Fire Protection (\$) | Rate (\$) | Rate (\$) | Rate (\$) | Distribution Charge (\$) | Quarterly Charge (\$) | Quarterly Rate (\$/1,000 gal) | Annual Charge (\$) |
| Artesian Water | Monthly | Monthly | \$7.347/1,000 gal (0-2,000 gal) | \$7.943/1,000 gal (2,001-7,000 gal) | \$9.263/1,000 gal (>7,000 gal) | 4.71% after 7/1/17 | \$193.51 | \$12.90 | \$774.05 |
| Company | \$16.49 | \$6.59 | \$14.69 | \$23.83 | \$0.00 | \$2.90 | · | | • |
| Delaware City | Monthly | Monthly | \$3.25/1,000 gal (0-15,000 gal) | \$3.75/1,000 gal (15,001-25,000 gal) | | \$0.00 | \$87.75 | \$5.85 | \$351.00 |
| • | \$13.00 | \$0.00 | \$16.25 | \$0.00 | \$0.00 | · | · | | · |
| Newark | | | | | | | | | |
| Inside City | Quarterly | Quarterly | \$5.329/100 cf (0-1,273 cf) | \$6.802/100 cf (>1,273 cf) | | \$0.00 | \$117.65 | \$7.84 | \$470.61 |
| | \$0.00 | \$0.00 | \$67.84 | \$49.81 | \$0.00 | , | , | | , |
| Outside City | Quarterly | Quarterly | \$7.099/100 cf (0-1,273 cf) | \$9.206/100 cf (over 1,273 cf) | | \$0.00 | \$157.79 | \$10.52 | \$631.16 |
| | \$0.00 | \$0.00 | \$90.37 | \$67.42 | \$0.00 | , | · | , | |
| New Castle Municipal | Monthly | Monthly | \$0.0070/gal | | | #0.00 | £424.25 | #0.0F | # E27.00 |
| Services Commission | \$8.25 | \$1.50 | \$35.00 | \$0.00 | \$0.00 | \$0.00 | \$134.25 | \$8.95 | \$537.00 |
| July through Sept. | | | \$0.0070/gal (0-4,000 gal) | \$0.0079/gal (>4,000 gal) | | \$0.00 | \$136.95 | \$9.13 | \$547.80 |
| , , , | \$8.25 | \$1.50 | \$28.00 | \$7.90 | \$0.00 | · | · | | · |
| Tidewater Utilities | Monthly | Fire Hydrant Districts | \$8.2074/1,000 gal (0-5,000 gal) | \$8.3131/1,000 gal (5,001-20,000 gal) | \$8.7104/1,000 gal (>20,000 gal) | 2.43% after 7/1/17 | \$197.49 | \$13.17 | \$789.94 |
| | \$18.20 | \$5.03 | \$41.04 | \$0.00 | \$0.00 | \$1.56 | · | , | |
| SUEZ DE | Monthly | Monthly | \$4.5387/1,000 gal (0-2000 gal) | \$5.4864/1,000 gal (2001-7,000 gal) | \$7.6882/1,000 gal (>7,000 gal) | 0.00% after 4/5/16 | \$132.56 | \$8.84 | \$530.24 |
| | \$15.10 | \$3.55 | \$9.08 | \$16.46 | \$0.00 | \$0.00 | · | , | |
| Wilmington | | | | | | | | | |
| Inside City | Monthly allowance of 2,667 gal | | \$0.00/1,000 gal (0-2,667 gal) | \$5.628/1,000 gal (2,667-5,000 gal) | \$7.034/1,000 gal (>5,000 gal) | \$0.00 | \$97.03 | \$6.47 | \$388.13 |
| | \$19.40 | \$0.00 | \$0.00 | \$12.94 | \$0.00 | | | | |
| Outside City | Monthly allowance 2,667 gal | | \$0.00/1,000 gal (0-2,667 gal) | \$10.189/1,000 gal (2,668-5,000 gal) | \$12.730/1,000 gal (>5,000 gal) | \$0.00 | \$163.48 | \$10.90 | \$653.94 |
| | \$31.06 | \$0.00 | \$0.00 | \$23.43 | \$0.00 | | | | |

Appendix B

Residential Water Rates, Kent County, Delaware (2017) 2017 Α В A+B+C+D=E E/15= F $E \times 4 = G$ Service Fire Quarterly Quarterly Rate Annual **Water Utility** Rate (\$) Rate (\$) Rate (\$) Use Fee (\$) Charge (\$) Protection (\$) Charge (\$) (\$/1,000 gal) Charge (\$) Camden-\$4.96/1,000 gal \$0.00 \$104.67 \$6.98 \$418.68 Wyoming (0-15,000 gal) \$30.27 \$0.00 \$74.30 \$9.50/1,000 gal \$4.00/1,000 gal Clayton \$0.00 \$0.00 \$71.00 \$4.73 \$284.00 (0-2,000 gal) (>2,000 gal) \$19.00 \$52.00 Dover \$3.00/1,000 gal Inside City \$0.00 \$47.50 \$3.17 \$190.00 (0-15,000 gal) \$45.00 \$2.50 \$0.00 \$4.50/1,000 gal **Outside City** \$0.00 \$70.00 \$4.67 \$280.00 (0-15,000 gal) \$2.50 \$0.00 \$67.50 Debt service Felton fee \$3.40/1.000 gal Inside Town \$10.00 \$81.00 \$5.40 \$324.00 (<15,000 gal) \$20.00 \$0.00 \$51.00 \$5.10/1,000 gal Outside Town \$10.00 \$116.50 \$7.77 \$466.00 (<15,000 gal) \$30.00 \$0.00 \$76.50 \$3.25/1,000 gal \$6.00/1,000 gal Frederica \$0.00 \$114.09 \$7.61 \$456.36 (<7,604 gal) (>7,605 gal) \$45.00 \$0.00 \$24.71 \$44.38 Harrington \$35.00 \$0.00 \$3.25/1,000 gal \$0.00 \$83.75 \$5.58 \$335.00 \$48.75 Magnolia Inside Town \$55.00 \$0.00 \$55.00 \$220.00 \$0.00 \$3.67 Smyrna \$3.81/1,000 gal \$5.07/1,000 gal Inside Town \$0.00 \$0.00 First 3,000 gal \$0.00 \$79.88 \$5.33 \$319.52 (4,001-6,000 gal) (3,001-4,000 gal) \$3.81 \$11.41 \$10.14 \$7.62/1,000 gal \$10.14/1,000 gal Outside Town \$0.00 \$0.00 First 3,000 gal \$0.00 \$159.76 \$10.65 \$639.04 (3,001-4,000 gal) (4,001-6,000 gal)

\$22.82

\$7.62

\$20.28

Appendix C
Residential Water Rates, Sussex County, Delaware (2017)

| 2017 | Α | В | | C C | • | D | A+B+C+D=E | E/15= F | E x 4 = G |
|------------------|------------------------|-------------------------|---|--|---|-----------------|--------------------------|----------------------------------|-----------------------|
| Water Utility | Service Charge (\$) | Fire Protection (\$) | Rate (\$) | Rate (\$) | Rate (\$) | Use Fee (\$) | Quarterly Charge (\$) | Quarterly Rate (\$/1,000 gal) | Annual Charge (\$) |
| Bridgeville | \$7.50 | \$0.00 | \$2.79/1,000 gal (0-5,000 gal) | \$3.35/1,000 gal (5,001-10,000 gal) | \$3.75/1,000 gal (>10,000 gal) | \$0.00 | \$56.95 | \$3.80 | \$227.80 |
| | | | \$13.95 | \$16.75 | \$18.75 | | | | |
| Delmar | \$15.75 | \$0.00 | \$3.50/1,000 gal (0-15,000 gal) | | | \$0.00 | \$68.25 | \$4.55 | \$273.00 |
| | | | \$52.50 | | | | | | |
| Georgetown | | | | | | | | | |
| Inside Town | \$35.00 | \$0.00 | \$3.88/1,000 gal \$58.20 | | | \$0.00 | \$93.20 | \$6.21 | \$372.80 |
| Outside Town | \$35.00 | \$0.00 | \$5.82/1,000 gal \$87.30 | | | \$0.00 | \$122.30 | \$8.15 | \$489.20 |
| Greenwood | | \$0.00 | \$30.00/5,000 gal \$90.00 | | | \$0.00 | \$90.00 | \$6.00 | \$360.00 |
| Laurel | \$56.10 | \$0.00 | ψου.σο | | | \$0.00 | \$56.10 | \$3.74 | \$224.40 |
| Lewes BPW | 4000 | 40.00 | | | | ψο.σσ | \$55.15 | Ψσ | Ψ=σ |
| Inside City | \$48.00 | \$0.00 | \$1.05/1,000 gal (0-4,500 gal) | \$1.65/1,000 gal (4,501-9,000 gal) | \$2.10/1,000 gal (>9,000 gal) | \$0.00 | \$72.75 | \$4.85 | \$291.00 |
| Outside City | \$65.25 | \$0.00 | \$4.73 \$1.52/1,000 gal (0-4,500 gal) | \$7.43 \$2.39/1,000 gal (4,501-9,000 gal) | \$12.60 \$3.05/1,000 gal (>9,000 gal) | \$0.00 | \$101.15 | \$6.74 | \$404.58 |
| Milford | Monthly | \$0.00 | \$6.84 \$3.25/1,000 gal (0-4,000 gal) | \$10.76 \$3.50/1,000 gal (4,001-8,000 gal) | \$18.30 \$4.00/1,000 gal (>8,000 gal) | \$0.00 | \$59.25 | \$3.95 | \$237.00 |
| | \$3.25 |] | \$13.00 | \$3.50 | | | | | |
| Milton | | | | | | | | | |
| Inside Town | \$35.00 | \$0.00 | \$3.00/1000 gal \$45.00 | | | \$0.00 | \$80.00 | \$5.33 | \$320.00 |
| Outside Town | \$70.00 | \$0.00 | \$3.00/1000 gal \$45.00 | | | \$0.00 | \$115.00 | \$7.67 | \$460.00 |
| Rehoboth Beach | | | , | | | | | | |
| | Winter \$9.50 | \$0.00 | \$2.10/1,000 gal \$31.50 | | | \$0.00 | \$41.00 | \$2.73 | \$164.00 |
| Inside City | Summer | \$0.00 | \$3.10/1,000 gal | | | \$0.00 | \$56.00 | \$3.73 | \$224.00 |
| | \$9.50 | Ψ0.00 | \$46.50 | | | Ψ0.00 | Ψ50.00 | ψ5.75 | Ψ224.00 |
| Seaford | | \$0.00 | \$21.95/month (0-9,000 gal) \$21.95 | | | \$0.00 | \$65.85 | \$2.44 | \$263.40 |
| Selbyville | | \$0.00 | \$64.00/18,000 gal \$64.00 | | | \$0.00 | \$64.00 | \$4.27 | \$256.00 |
| Sussex Co. DPW | \$76.44/qtr | \$0.00 | Ψ04.00 | | | \$0.00 | \$76.44 | \$5.10 | \$305.76 |
| CUCCOCK CO. D. W | φ/ 0.44/40 | ψ0.00 | l | l | | ψ0.00 | Ψ10 | ψ0.10 | ψ000.70 |

Appendix D
Residential Water Rates, Pennsylvania (2017)

| 2017 | Α | В | С | С | С | D | A+B+C+D=E | E/15= F | E x 4 = G |
|--|-------------------------|-------------------------|--|---|-----------|---------------------------------|--------------------------|-------------------------------------|--------------------------|
| Water Utility | Service Charge (\$) | Fire Protection (\$) | Rate (\$) | Rate (\$) | Rate (\$) | Use Fee (\$) | Quarterly Charge (\$) | Quarterly Rate (\$/1,000 gal) | Annual Charge (\$) |
| Ambler Borough | \$12.61 | \$41.32 | \$4.6176/1,000 gal (0-110,000 gal) \$69.26 | | | \$0.00 | \$123.19 | \$8.21 | \$492.78 |
| AQUA PA | \$48.00 | \$0.00 | \$9.071/1,000 gal (0-2,000 gal) \$18.14 | \$10.352/1,000 gal (2,000-15,000 gal) \$18.14 | | \$0.00 | \$200.72 | \$13.38 | \$802.87 |
| Bucks County Water & Sewer Authority | \$75.00 | \$0.00 | \$4.70/1,000 gal \$70.50 | · | | \$0.00 | \$145.50 | \$9.70 | \$582.00 |
| Chester Water Authority | | | | | | | | | |
| Village Green East | \$36.30 | \$32.30 | \$4.61/1000 gal (0-25,000 gal) \$69.15 | \$2.96/1000 gal (>25,000 gal) | | \$0.00 | \$137.75 | \$9.18 | \$551.00 |
| Village Green West | \$36.30 | \$36.30 | \$5.92/1000 gal (0-25,000 gal) \$88.80 | \$4.15/1000 gal (>25,,000 gal) | | \$0.00 | \$161.40 | \$10.76 | \$645.60 |
| Downingtown MUA | \$57.00 | \$2.32 | \$9.50/1000 gal \$142.50 | | | \$0.00 | \$0.00 | \$143.72 | \$9.58 |
| Lehigh Co. Authority | \$11.70 | \$0.00 | \$7.50/1000 gal \$112.50 | | | \$0.00 | \$0.00 | \$124.20 | \$8.28 |
| Newtown Artesian | \$19.38 | \$0.00 | \$5.394/1,000 gal\$80.91 | \$0.80 | | Adj. (\$0.0533/ 1000 gal) | \$101.09 | \$6.74 | \$404.36 |
| North Wales WA | \$12.00 | \$0.00 | \$3.60/1000 gal. \$54.00 | | | \$0.00 | \$66.00 | \$4.40 | \$264.00 |
| Pennsylvania American Water | \$45.00 | \$0.00 | \$10.141/1000 gal \$152.12 | | | \$0.00 | \$197.12 | \$13.14 | \$788.46 |
| Philadelphia Water Dept. | \$19.83 | \$0.00 | \$43.08/7,480 gal \$86.39 | | | \$0.00 | \$106.22 | \$7.08 | \$424.88 |
| Phoenixville Water Dept. | | | , , , , , | | | | _ | _ | |
| Inside Borough | 0-12,500 gal \$44.13 | \$72.04 | \$4.22/1,000 gal (12,500-15,000 gal) \$10.55 | | | \$0.00 | \$126.72 | \$8.45 | \$506.88 |
| Outside Borough | 0-12,500 gal\$ 26.06 | \$72.04 | \$4.22/1,000 gal (12,500-15,000 gal) \$10.55 | | | \$0.00 | \$108.65 | \$7.24 | \$434.60 |

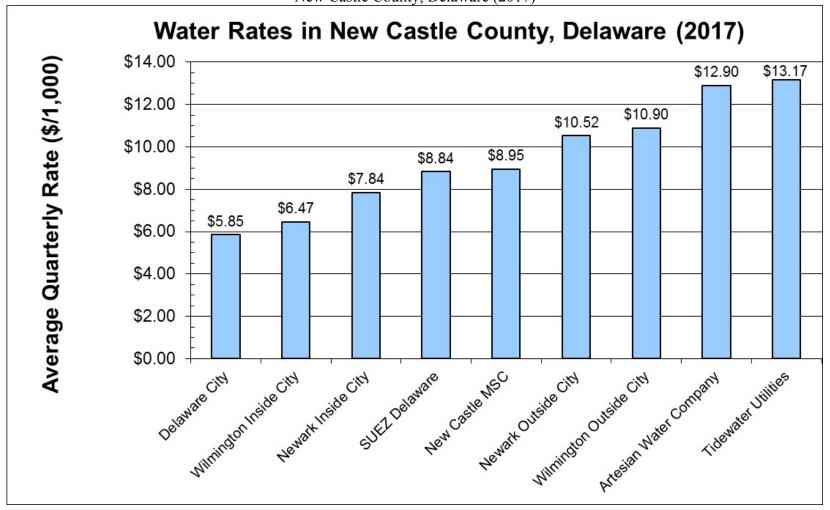
Appendix E Residential Water Rates, New Jersey (2017)

| 2017 | Α | В | | С | - | D | A+B+C+D=E | E/15= F | E x 4 = G |
|---------------------------------------|------------------------------|----------------------------|--|--|-----------|---------------------------|---------------------|----------------------------------|-----------------------|
| Water Utility | Service Charge (\$) | Fire Protection (\$) | Rate (\$) | Rate (\$) | Rate (\$) | Quarterly Use Fee (\$) | Quarterly Charge | Quarterly Rate (\$/1,000 gal) | Annual Charge (\$) |
| Berlin Borough | \$18.00 | \$0.00 | \$3.40/1,000 gal (0-10,000 gal) | \$3.50/1,000 gal (10,000-15,000 gal) | | \$0.00 | \$69.50 | \$4.63 | \$278.00 |
| | , | , | \$34.00 | \$17.50 | | | | | |
| Camden | \$35.19 | \$0.00 | \$5.35/1,000 gal (0-15,000 gal) | | | \$0.00 | \$115.44 | \$7.70 | \$461.76 |
| | , | ****** | \$80.25 | | | | | | |
| Evesham Municipal Utilities Authority | | | | | | | | | |
| Inside Township | \$12.00 | \$0.00 | \$1.85/1,000 gal (1,000-16,000 gal) | | | \$0.00 | \$33.75 | \$2.25 | \$159.00 |
| | , | , | \$27.75 | | | | | | |
| Outside Township | \$15.00 | \$0.00 | \$2.31/1,000 gal (1,000-16,000 gal) | | | \$0.00 | \$49.65 | \$3.31 | \$198.60 |
| , , , , , , , , , , , , , , , , , , , | | , | \$34.65 | | | | | | |
| Medford Township | Min. Charge (0-5,000 gal) | \$0.00 | \$3.50/1,000 gal (5,000-20,000) | | | \$0.00 | \$60.00 | \$4.00 | \$240.00 |
| Utilities | \$25.00 | | \$35.00 | | | | | | |
| Merchantville Pennsauken Municipal | \$24.25 | \$0.00 | \$2.25/100 cf (7-2,300 cf) | \$2.65/100 cf (2,400-5,000 cf) | | \$0.00 | \$69.36 | \$4.62 | \$277.45 |
| Water Commission | | | \$26.00 | | | | | | |
| N.J. American Water Co. | | | | | | | | | |
| Non avamet | \$30.00 | \$0.00 | \$5.70/ | 1,000 gal | | \$0.00 | \$115.50 | \$7.70 | \$462.00 |
| Non-exempt | \$30.00 | φ0.00 | \$8 | 5.50 | | | | | |
| Salem | \$26.08 | \$0.00 | | 1,000 gal 5,000 gal) | | \$0.00 | \$61.93 | \$4.13 | \$247.72 |
| | , | ****** | \$3 | 5.85 | \$0.00 | | | | |
| Trenton | \$46.24 | (charge per hydrant) | \$21.16 | /1,000 cf | | \$0.00 | \$148.81 | \$9.92 | \$595.25 |
| | | \$60.14 | \$4 | 2.43 | \$0.00 | | | | |
| Washington Township MUA | First 10,000 gal | \$0.00 | | 1,000 gal 15,000 gal) | \$0.00 | \$0.00 | \$34.25 | \$2.28 | \$137.00 |
| | \$25.00 | | \$9 | 9.25 | | | | | |

Appendix F
Residential Water Rates, Maryland (2017)

| 2017 | Α | В | | С | ` | D | A+B+C+D=E | E/15= F | E x 4 = G |
|---------------------|------------------------|-------------------------|------------------------|---------------------------------------|------------------------|---------------------------|--------------------------|----------------------------------|-----------------------------|
| Water Utility | Service Charge (\$) | Fire Protection (\$) | Quarterly Rate (\$) | Quarterly Rate (\$) | Quarterly Rate (\$) | Quarterly Use Fee (\$) | Quarterly Charge (\$) | Quarterly Rate (\$/1,000 gal) | Annual Charge (\$) |
| City of Dolling and | #4C CC | #0.00 | \$2.484/748 gal | | | #0.00 | CCC 47 | C4 40 | #205 00 |
| City of Baltimore | \$16.66 | \$0.00 | \$49.81 | \$0.00 | \$0.00 | \$0.00 | \$66.47 | \$4.43 | \$265.89 |
| Elkton | | | | | | | | | |
| Inside Town | \$0.00 | \$0.00 | 0-9,000 gal min. | \$4.16/1000 gal (9,000-30,000 gal) | | \$0.00 | \$62.40 | \$4.16 | \$249.60 |
| | 75.55 | ***** | \$37.44 | \$24.96 | | ****** | **=::* | * | V =10100 |
| Outside Town | \$0.00 | \$0.00 | 0-9,000 gal min. | \$8.32/1000 gal (9,000-30,000 gal) | | \$0.00 | \$124.80 | \$8.32 | \$499.20 |
| | 75.55 | 73.33 | \$74.88 | \$49.92 | | ****** | * | ***** | * |
| Perryville. | First 2,500 gal | \$0.00 | | 1,000 gal 5,000 gal. | | \$0.00 | \$124.62 | \$8.31 | \$498.48 |
| | \$14.62 | , . | \$17 | 10.00 | | 11100 | + ·= ···• | , , , , | Ţ . 2 0 . 1 0 |

Appendix G
Average Quarterly Water Rates
New Castle County, Delaware (2017)



Appendix H
Average Annual Water Bill
New Castle County, Delaware (2017)

