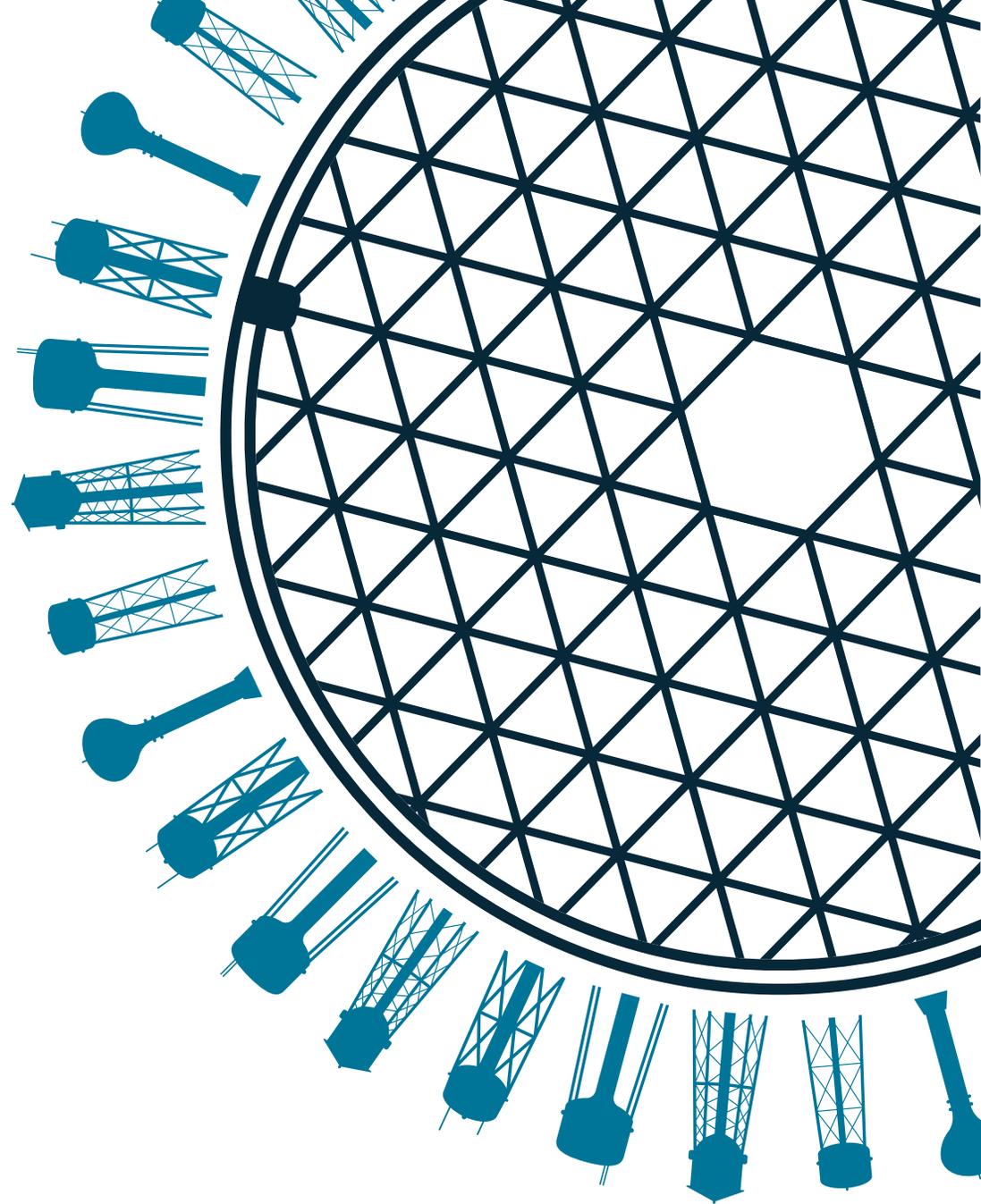


# The 31st Annual Virginia Water and Wastewater Rate Report 2019



 **Draper Aden Associates**  
*Engineering • Surveying • Environmental Services*  
*Lasting Positive Impact®*



# Table of Contents

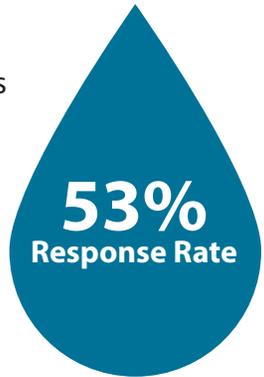
About Our Survey.....3  
Water and Wastewater Rates.....4  
Connection Fees and Capital Recovery Charges .....6  
Water Data .....7  
Wastewater Data ..... 11



*Draper Aden Associates has provided water and wastewater rate analysis to local government clients across Virginia for several decades. For questions about this report or rate consultation services, please contact Sheryl Stephens at 804.261.2915 or [sstephens@daa.com](mailto:sstephens@daa.com).*

## About Our Survey

For 31 years, Draper Aden Associates has provided the Annual Virginia Water and Wastewater Rate Report as a service to our clients and to water and sewer providers across the Commonwealth. Earlier this year, Draper Aden Associates conducted a survey to request water and wastewater rate information from 265 water and sewer providers; fifty-three percent (53%), or 140 utilities, responded to the survey and provided the data included in this report. Survey respondents provided information detailing:



- approximate number of residential and non-residential connections
- billing frequency (monthly, bi-monthly, or quarterly)
- the charge for residential customers using 3,000, 4,000, and 5,000 gallons of water per month
- the charge for non-residential customers using 1,000,000 gallons per month
- the current residential connection fee and capital recovery charge
- the year that rates and fees were last changed.

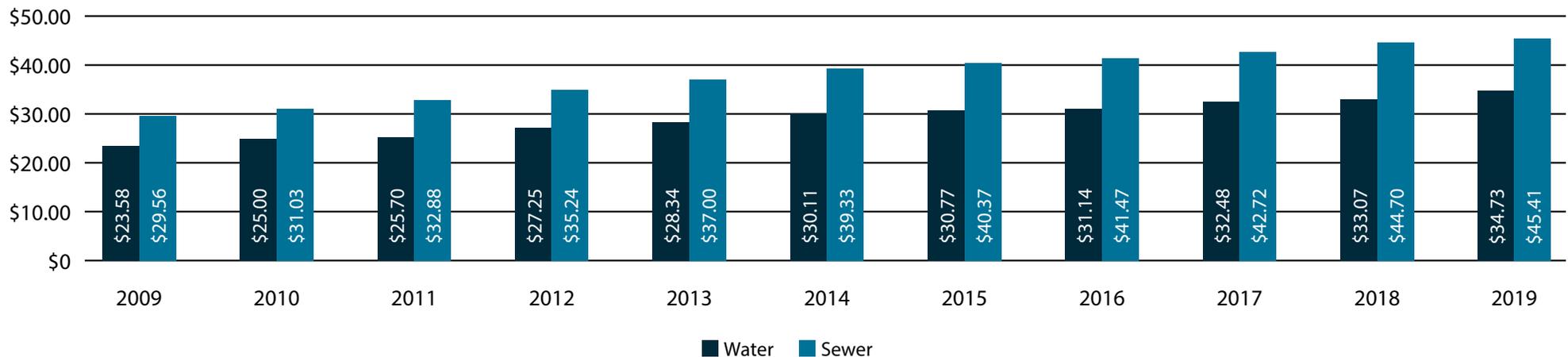
We are pleased to share these results and express our gratitude to all who participated in this effort.

## Control Group Data

For over 20 years, Draper Aden's survey has tracked a select group comprised of 20 water and wastewater providers who represent a cross section of utilities across the Commonwealth. We have consistently tracked the monthly residential charges of these 20 utilities to provide an indication of trends in water and wastewater rates in Virginia – and to provide an indication of average increases over time.

The average water rate increased by 5% in 2019 and the average sewer rate increased by 1.6%. Since 2009, water rates have increased by approximately 3.95% per year and wastewater rates have increased by approximately 4.4% per year.

Average Monthly Water and Sewer Bills (based on 5,000 gallons of usage)



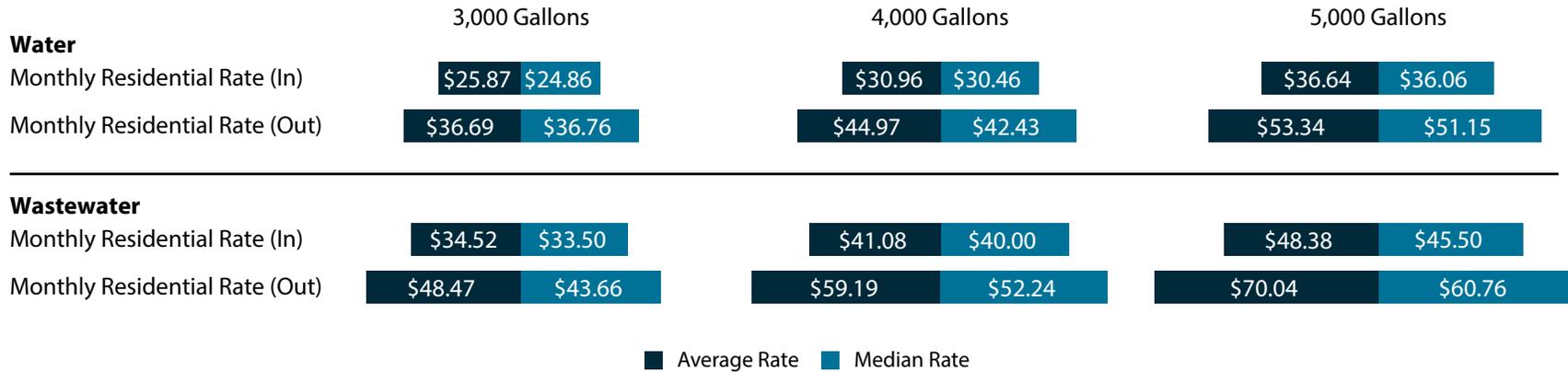
# Water and Wastewater Rates

Utilities were asked to calculate the charges for residential customers using 3,000, 4,000 and 5,000 gallons of water per month. Utilities that bill on a bi-monthly or quarterly basis provided rates based on equivalent usage and the rates were normalized to monthly rates. Respondents were asked to use the rates in effect on July 1, 2019.



Residential Connections	# of Replies	Smallest System # of Connections	Largest System # of Connections	Average # of Connections	Median # of Connections
Water	128	5	360,778	11,644	2,379
Wastewater	119	32	116,659	8,999	1,752

## Monthly Residential Rates

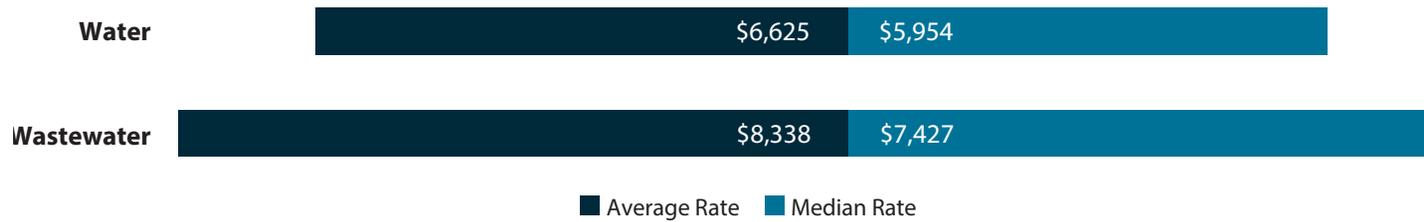


Utilities were also asked to provide the rate for a non-residential customer that uses 1,000,000 gallons per month. If the size of the meter influences the charges, the utility was to assume a 4-inch meter.



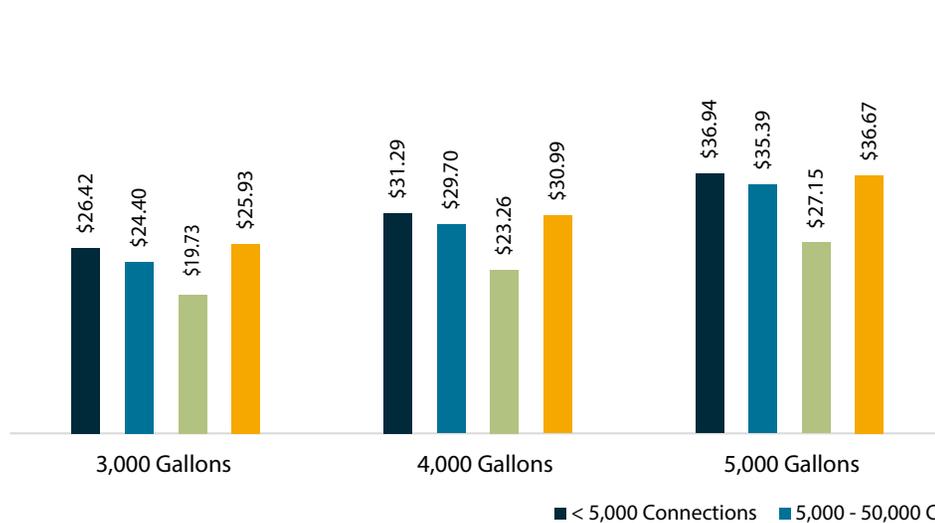
Non-residential Connections	# of Replies	Smallest System # of Connections	Largest System # of Connections	Average # of Connections	Median # of Connections
Water	126	4	12,644	787	212
Wastewater	115	3	8,687	695	207

### Monthly Non-residential Rates (per 1 million gallons)



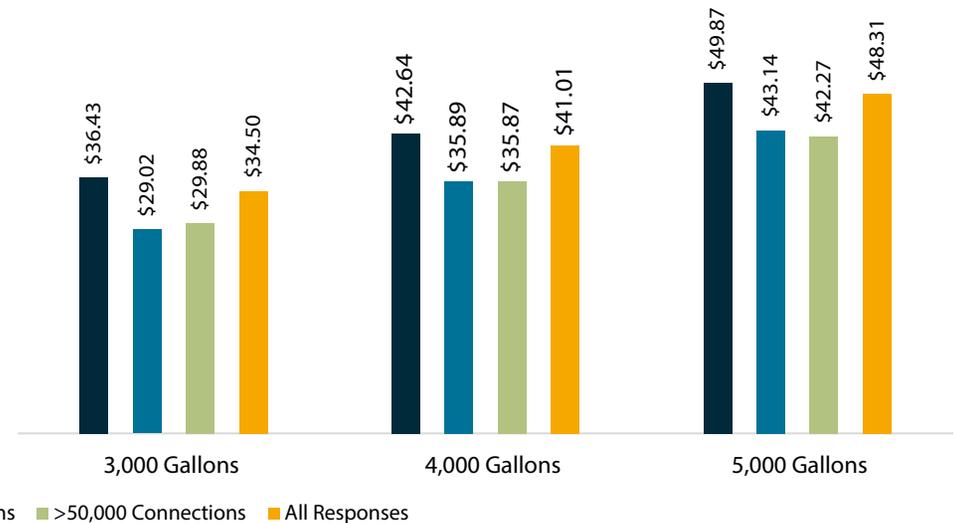
### Water Rate Summary by System Size

Average Residential Water Rates by System Size (Monthly)



### Wastewater Rate Summary by System Size

Average Residential Wastewater Rates by System Size (Monthly)



# Connection Fees and Capital Recovery Charges

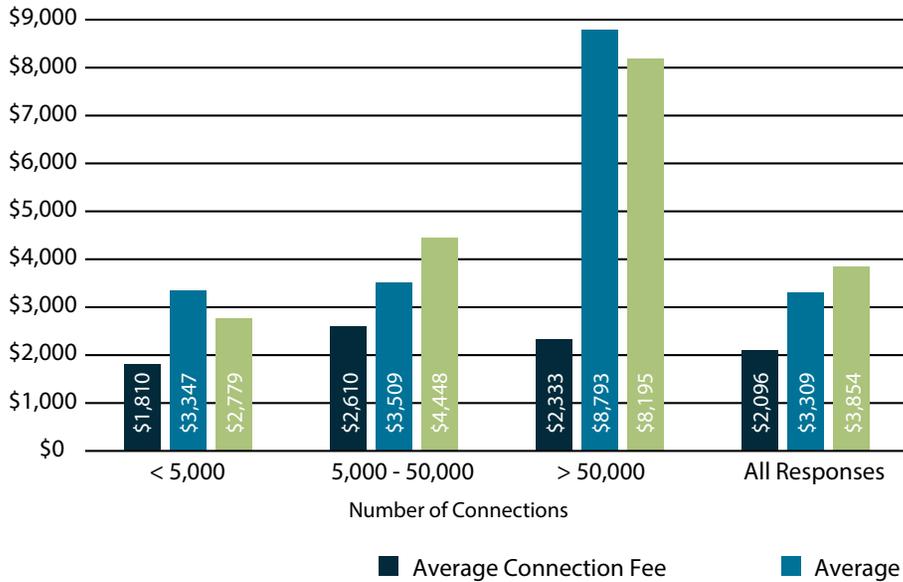
Residential connection fees and capital recovery charges are shown below. Connection fees are charges for tapping into the water main and running a line to the water meter or for tapping into the sewer line and running a lateral to the property line. Capital recovery charges are capital charges for buying into the existing system or charges that recognize the Cost of adding capacity to the system. Providers were asked to furnish the charges for a residential connection using a 5/8- or 3/4-inch meter.

	Connection Fees		Capital Recovery Charges		Combined Charges	
	Water	Wastewater	Water	Wastewater	Water	Wastewater
Average	\$2,096	\$3,309	\$3,854	\$4,363	\$3,521	\$4,624
Median	\$1,500	\$2,000	\$3,000	\$4,000	\$3,000	\$4,000
High	\$14,115	\$22,750	\$19,545	\$14,000	\$20,845	\$22,750
Low	\$50	\$80	\$400	\$385	\$200	\$150

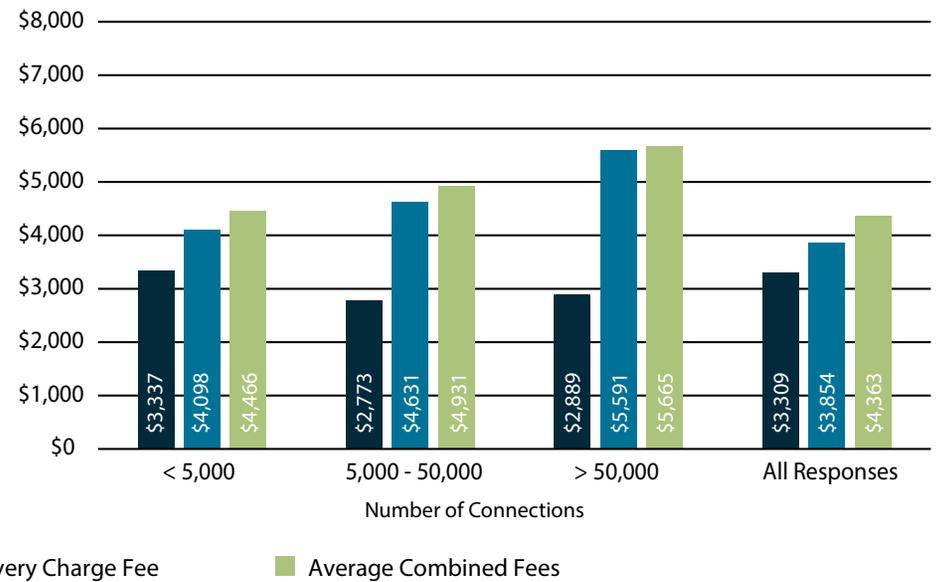
\*Fees and charges in this table are for residential connections using a 5/8- or 3/4-inch meter



### Water Connection and Capital Recovery Charges by System Size



### Wastewater Connection and Capital Recovery Charges by System Size





# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Albemarle County Service Authority	30,703	1,473	\$22.01		\$30.99		\$39.97		\$8,795	2019	S	\$1,026	2013	\$6,650	2017
Alleghany County	2,745	187	\$45.00		\$45.00		\$45.00		\$9,249	2019	S	\$1,000	2000		
Altavista, Town of	1,640	56	\$14.12	\$21.74	\$16.66	\$26.82	\$19.20	\$31.90	\$2,653	2019	C	\$1,500	2018		
Amelia County	294	147	\$22.50		\$27.00		\$31.50		\$4,725		G	Cost + 100%	2007	\$3,000	2013
Amherst County Service Authority	6,388	533	\$31.97		\$38.64		\$45.37		\$6,698	2019	S	\$1,285	2015	\$2,790	2015
Amherst, Town of	1,131	164	\$38.85	\$77.70	\$46.60	\$93.20	\$54.35	\$108.70	\$12,250	2019	S	\$50		\$1,700	
Appomattox, Town of	944	231	\$17.00		\$23.00		\$29.00		\$5,999	2019	S	\$1,500		\$2,500	
Appalachia, Town of	1,030	35	\$26.75	\$38.60	\$32.50	\$47.60	\$38.25	\$56.60	\$6,043	2019	S	\$1,250	2019		
Arlington County	35,518	1,961	\$14.10		\$18.80		\$23.50		\$4,700	2019	S	\$3,200	2008	\$85/DFU	2013
Augusta County Service Authority	14,089	1,088	\$24.72		\$30.42		\$36.12		\$5,929	2019	C	\$1,350	2019	\$2,645	
Bedford Regional Water Authority	12,386	867	\$35.60	\$37.60	\$39.80	\$41.80	\$44.00	\$46.00	\$4,688	2019	C	\$1,500	2018	\$4,000	2018
Berryville, Town of	1,519	207	\$25.20		\$33.60		\$42.00		\$8,400	2015	S	\$5,575	2008		
Big Stone Gap, Town of	3,570	303	\$27.51	\$44.25	\$33.66	\$54.10	\$39.81	\$63.95	\$6,159	2018	S				
Blacksburg, Town of	9,668	138	\$24.54	\$42.95	\$31.74	\$55.55	\$38.94	\$68.15	\$7,688	2019	S	\$648	2019	\$1,302	2019
Bluefield, Town of	2,300	100	\$32.60	\$48.90	\$40.50	\$60.75	\$48.40	\$72.60	\$6,076	2018	S	\$550	2016		
Bowling Green, Town of	797	96	\$19.16	\$38.33	\$21.01	\$42.04	\$22.86	\$45.76	\$2,504	2019	G	\$750	2000	\$6,000	2000
Boones Mill, Town of			\$58.00	\$78.00	\$64.00	\$84.00	\$70.00	\$90.00	\$6,020	2018	G	\$3,000			
Bridgewater, Town of	1,919	375	\$16.04	\$26.04	\$19.79	\$29.79	\$23.54	\$33.54	\$4,476	2019	C	\$2,758	2019		
Bristol Virginia Utilities Authority	6,931	955	\$24.09	\$36.14	\$27.75	\$41.63	\$31.41	\$47.12	\$3,278	2019	S	\$990	2019		
Buckingham County	321	95	\$25.36		\$25.36		\$38.56		\$13,000	2018	S	\$2,000	1994		
Buena Vista, Town of	2,520	199	\$22.44		\$29.92		\$37.40		\$7,480	2014	G				
Campbell County Utility and Service Authority	10,235	560	\$26.81		\$33.07		\$39.34		\$6,344	2012	C	\$1,500	2010	\$1,900	2010
Cape Charles, Town of	1,160	110	\$35.57		\$38.20		\$40.83			2019	G	\$875	2012	\$4,000	2012
Caroline County	1,652	138	\$23.16		\$24.68		\$26.51		\$2,043	2018	G	Min of \$1,000	2018	\$5,000	2018
Carroll County PSA	3,689	165	\$37.80		\$47.25		\$56.70		\$4,773	2019	C	\$1,250	2019		
Charlotte Court House, Town of	257	58	\$37.00		\$41.00		\$45.00			2015	S	\$1,450			
Chase City, Town of	1,200	30	\$25.10	\$32.13	\$30.77	\$39.39	\$36.44	\$46.64	\$4,948	2017	S	\$800			

<sup>1</sup>"Inside" refers to inside of municipal boundary. "Outside" rates are listed where the utility has implemented higher rates to users outside of the municipal boundary.

<sup>2</sup>Water Source: **S** = surface water, **G** = groundwater, and **C** = combination.

<sup>3</sup>Connection and Capital Recovery Charge (CRC) Fees: "Cost" = customer pays the Cost of making the connection; "Cost +" = the customer pays the Cost to make the connection, plus additional charges, "Fixture" or DFU means the customer is charged that fee per the number of drainage Fixture units in the structure. **Min** = Minimum charge is dollar amount cited.



# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Chesapeake Public Utilities	64,050	3,332	\$27.46		\$32.51		\$40.09				C	\$3,697	2007		
Chesterfield County	128,415	5,600	\$18.80		\$21.68		\$24.55		\$3,068	2019	S	\$1,980	2019	\$5,725	2018
Chincoteague, Town of	2,754	1,145	\$14.03		\$18.39		\$22.75		\$5,538		G	\$670	2012	\$3,708	2012
Chilhowie, Town of	2,100	144	\$24.36	\$48.11	\$29.23	\$57.75	\$34.10	\$67.39	\$5,420	2019	G	\$900	2016		
Christiansburg, Town of	9,644	793	\$25.00	\$37.50	\$34.00	\$51.00	\$43.00	\$64.50	\$6,861	2018	S	\$3,000	2015		
Clarke County Sanitary Authority	433	34	\$38.70		\$51.60		\$64.50		\$12,900	2019	G			\$13,800	2006
Clarksville, Town of	732	162	\$30.00	\$59.75	\$37.00	\$73.70	\$44.00	\$87.65	\$7,009	2016	S	\$1,000	2009	\$1,000	2009
Clifton Forge, Town of	1,600	200	\$35.80		\$35.80		\$35.80		\$6,866	2019	S	\$600			
Coeburn, Town of	1,550	165	\$25.74	\$37.02	\$31.68	\$45.90	\$37.62	\$54.78		2015	S	Cost + \$50			
Courtland, Town of	668	48	\$11.00	\$13.00	\$11.00	\$13.00	\$11.00	\$13.00		1994	G	\$1,200			
Culpeper, Town of	6,621	738	\$19.60		\$25.80		\$32.00		\$3,859	2018	C	\$281	2012	\$6,500	2009
Danville, City of	17,437	2,500	\$19.25		\$22.63		\$26.27		\$3,688	2019	S	\$1,500	2019		
Dinwiddie County Water Authority	3,545	185	\$15.70	\$15.70	\$20.01	\$20.01	\$24.32	\$24.32	\$3,902	2017	C	\$1,618	2015		
Dungannon, Town of	206	4	\$24.50	\$28.50	\$29.50	\$33.50	\$34.50	\$38.50	\$5,010	2016	G	\$125	2016	\$750	2016
Eastville, Town of	148	38	\$34.73	\$40.43	\$40.73	\$49.43	\$46.73	\$58.40	\$6,016	2019	G	\$3,000	2010		
Edinburg, Town of	574	50	\$27.50	\$41.25	\$33.50	\$50.28	\$39.50	\$59.31		2019	G	\$5,000	2009		
Emporia, City of	2,175		\$29.94		\$39.43		\$48.92		\$5,957	2019	S	\$3,000	2015		
Exmore, Town of	700	110	\$24.00	\$27.00	\$26.75	\$29.75	\$29.50	\$32.50	\$5,468	2018	G	\$1,000	2017		
Fairfax Water	360,778	12,644	\$13.28		\$16.35		\$19.42		\$3,118	2019	S	\$1,300	2019	\$19,545	2019
Farmville, Town of	3,219	636	\$26.81	\$35.22	\$30.49	\$40.74	\$34.17	\$46.26	\$5,240	2018	S	\$4,000	2013		
Fauquier County Water and Sanitation Authority	6,544	170	\$44.72		\$51.17		\$57.62		\$10,897	2019	G			\$11,120	2016
Ferrum Water and Sewer Authority	192	30	\$24.00		\$29.50		\$35.00		\$5,570	2017	G	Cost + \$500	2014	\$1,500	2017
Fincastle, Town of	258		\$27.61		\$31.71		\$35.81		\$5,239	2019	G	\$2,000	2012	\$2,500	2017
Franklin, City of	3,254	252	\$23.82	\$29.86	\$27.02	\$33.82	\$30.22	\$37.78	\$3,214	2016	G	\$3,500	2005		
Frederick Water	15,442	763	\$21.69		\$26.01		\$30.33		\$7,796	2019	C	\$14,115	2018		
Fredericksburg, City of	6,240	1,847	\$26.27		\$29.04		\$31.81		\$2,777	2019	S	\$2,600	2012	\$3,000	2012
Front Royal, Town of			\$9.92	\$19.84	\$18.43	\$36.86	\$26.94	\$53.88	\$8,872	2014	S	\$4,836			
Galax, City of	3,200	500	\$14.50	\$29.00	\$19.00	\$38.00	\$23.50	\$47.00	\$4,501	2017	S	\$1,000	2010		
Gate City, Town of			\$36.05		\$43.95		\$51.85		\$7,912	2013	S				
Glasgow, Town of	516	12	\$31.50	\$47.25	\$36.40	\$56.15	\$41.30	\$65.05	\$608	2019	G	\$2,625	2019		
Gloucester, County of	5,598	922	\$30.18		\$40.18		\$50.18		\$10,397	2013	C	\$3,500	2008	\$500	2008



# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Goochland, County of	2,150	290	\$25.25		\$32.05		\$38.58		\$9,387	2019	S	\$4,400	2019		
Greensville County WSA	1,700	100	\$16.95		\$22.60		\$28.25		\$5,950		C	\$960		\$400	
Gretna, Town of	585	105	\$26.87	\$53.73	\$32.18	\$61.96	\$37.49	\$70.19	\$5,320	2019	G	\$300			
Halifax County Service Authority	3,890	420	\$24.00		\$29.00		\$34.00		\$4,049	2018	S			\$1,250	2008
Hanover County	19,815	1,770	\$13.83		\$18.97		\$24.11		\$4,128	2019	C			\$6,281	2019
Harrisonburg, City of	18,139	3,078	\$12.77	\$18.98	\$16.36	\$24.64	\$19.95	\$30.30	\$3,385	2019	S	\$2,500	2010		
Henrico County	92,422	5,998	\$22.22		\$27.02		\$31.82		\$4,937	2019	S	\$4,940	2019		
Henry Co. Public Service Authority	12,454	923	\$30.00		\$30.00		\$34.70		\$7,017		C	\$1,750	2013		
Highland County - McDowell Water System	56	18	\$35.00		\$35.00		\$42.50		\$7,470	2006	G	Cost + \$200			
Hillsville, Town of	1,130	170	\$30.74	\$39.73	\$35.38	\$49.46	\$40.02	\$59.19	\$7,856	2019	S	\$690	2011		
James City Service Authority	21,768	1,064	\$16.30		\$20.40		\$24.50		\$6,349	2019	G	\$500/Fixture	2008	\$1,300	1989
Kenbridge, Town of	473	97	\$15.15	\$28.11	\$20.15	\$36.15	\$26.15	\$44.19		2012	G	\$500			
Kilmarnock, Town of	791	263	\$15.15	\$22.73	\$17.95	\$26.93	\$20.75	\$31.13	\$5,627	2008	G	\$2,055	2006		
King George County Service Authority	3,996	243	\$34.01		\$38.99		\$43.97		\$6,130	2017	G	\$1,162	2013	\$7,500	2013
Lawrenceville, Town of	995	180	\$15.14	\$26.47	\$19.28	\$33.69	\$23.42	\$40.92	\$4,143	2019	S	Cost + \$400			
Leesburg, Town of	15,000	1,042	\$27.42	\$33.42	\$33.59	\$42.11	\$39.75	\$50.80	\$7,222	2019	S	\$4,682			
Lexington, City of	2,500	600	\$18.45	\$24.90	\$24.60	\$33.21	\$30.75	\$41.51	\$13,764	2018	S	Min of \$1,675	2018	\$620	2018
Loudoun Water	74,928	5,944	\$19.13		\$21.66		\$24.19		\$3,558	2019	C	\$80		\$6,901	2019
Louisa Co. Water Authority - Zion Crossroads	622	53	\$23.56		\$23.56		\$29.45		\$5,890	2019	G	\$3,750	2004		
Louisa Co. Water Authority - Northeast Creek	97	72	\$23.56		\$23.56		\$29.45		\$5,890	2019	C	\$3,750	2004		
Louisa, Town of	807	154	\$37.32	\$41.92	\$37.32	\$41.92	\$43.98	\$49.97	\$6,697	2019	C	\$4,780			
Lovettsville, Town of	898	44	\$32.17	\$48.25	\$41.13	\$61.69	\$50.09	\$75.13		2017	G	\$2,000	2017		
Luray, Town of	2,185	126	\$36.02	\$54.03	\$41.27	\$61.91	\$46.52	\$69.78	\$5,600	2019	G	\$3,320	2012	\$1,200	2012
Lynchburg, City of	22,000	2,000	\$13.92		\$17.50		\$21.09		\$3,633	2017	S	\$1,150	2016	\$1,220	2000
Martinsville, City of	7,000	500	\$25.31	\$31.50	\$25.31	\$31.50	\$28.50	\$35.68	\$2,675	2016	S	\$900	2014		
Mineral, Town of	257	51	\$26.50	\$30.00	\$34.50	\$39.00	\$42.50	\$48.00	\$8,003	2013	C	\$4,000	2007		
Monterey, Town of	220	59	\$22.50		\$22.50		\$27.00			2019	G	\$1,125	2015		
Montross, Town of	228	78	\$18.00	\$27.00	\$18.00	\$27.00	\$18.00	\$27.00		2018	G	\$500			
Mount Crawford, Town of	192	12	\$37.50		\$44.60		\$51.70		\$7,116	2014	G	\$2,650			
Narrows, Town of	1,005	12	\$31.00	\$42.02	\$45.15	\$59.59	\$58.50	\$77.16			G	\$1,500	2018		
New Kent County			\$24.29		\$31.58		\$38.87		\$8,552	2017	G				



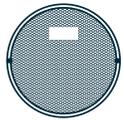
# Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
New Market, Town of	1,044	120	\$26.86	\$40.29	\$34.06	\$51.09	\$41.26	\$61.89	\$7,205	2019	G	\$2,000			
Norton, City of	1,838	345	\$29.25	\$41.95	\$35.40	\$56.75	\$44.05	\$71.55	\$6,168	2019	S	\$240			
Onancock, Town of	610	56	\$27.81		\$36.94		\$46.07			2019	G	\$1,500			
Orange, Town of	1,767	325	\$18.60	\$51.70	\$22.60	\$58.30	\$26.60	\$64.90	\$4,013	2007	S	\$3,000	2012		
Phenix, Town of	128	5	\$35.50		\$39.50		\$43.50			2019	G	\$600			
Pittsylvania County Service Authority	3,852	222	\$23.00		\$23.00		\$30.00		\$6,995		C	\$955	2013		
Portsmouth, City of	30,277	2,474	\$21.52		\$27.03		\$32.54		\$5,583	2019	C	\$200	2013		
Pound, Town of	1,005	67	\$32.87	\$47.05	\$40.75	\$58.87	\$48.63	\$70.69		2019	G	\$800	2017		
Powhatan County	5	108	\$31.01		\$37.74		\$44.47		\$7,000	2019	C	\$4,100			
Prince William County Service Authority	117,636	3,631	\$16.00		\$19.35		\$22.70		\$3,849	2012	S	\$4,600	2012		
Pulaski County Public Service Authority	4,416	310	\$27.47		\$32.83		\$38.19		\$4,866	2019	S	\$700	2016		
Purcellville, Town of			\$28.60	\$49.69	\$37.49	\$67.47	\$46.38	\$85.25	\$49,377	2019	S				
Radford, City of	4,915	456	\$16.32		\$16.32		\$20.40		\$3,680	2014	S	\$1,000	2014	\$800	2014
Rapidan Service Authority	7,515	499	\$15.66		\$19.88		\$24.10			2019	S	\$10,000			
Rockbridge County PSA - Long Hollow			\$35.49		\$43.64		\$51.79			2019	G	\$1,025	2007	\$4,000	2007
Rockbridge County PSA - Rivermont and Riveria	2,592	380	\$28.59		\$34.34		\$40.09		\$5,954	2019	G	\$1,025	2007	\$4,000	2007
Rockingham County	4,329	339	\$12.50		\$14.40		\$18.20		\$3,799	2017	G	\$625	2009	\$2,650	2009
Rocky Mount, Town of	2,458	472	\$17.85	\$35.70	\$21.37	\$42.74	\$24.89	\$49.78	\$3,381	2019	S	\$1,000	2016		
Rural Retreat, Town of			\$23.60	\$41.10	\$28.90	\$50.20	\$34.20	\$59.30	\$7,045	2017	G	\$1,000	2017		
Russell County PSA - Lebanon and New Garden			\$38.50		\$47.00		\$55.50		\$8,524		S				
Saint Paul, Town of	645	75	\$24.22	\$41.67	\$30.87	\$52.12	\$37.52	\$62.57	\$6,654	2019	S	Min of \$750	2016		
Salem, City of	8,538	1,187	\$29.69		\$35.26		\$40.83		\$6,576	2019	S	\$1,500	2014	\$2,000	2014
Scott County Public Service Authority	4,900	500	\$37.60		\$47.28		\$56.96		\$9,695	2019	C	\$1,500	2015		
Shenandoah, Town of	946	76	\$23.65	\$36.50	\$28.15	\$44.00	\$32.65	\$51.50	\$4,511	2018	G	\$4,000	2008		
Smithfield, Town of	3,210	479	\$24.70	\$29.47	\$31.02	\$37.38	\$37.34	\$45.29	\$6,326	2019	G	\$660	1999	\$2,720	2007
Smyth County	2,526	35	\$40.01		\$49.30		\$58.59		\$11,376	2016	C	\$850	2016		
South Hill, Town of	2,900	900	\$17.50	\$35.00	\$24.00	\$48.00	\$28.00	\$52.00	\$4,000	2016	S	\$1,000	2000		
Southampton County	814	26	\$28.00		\$28.00		\$34.00			2018	G	\$1,000	2009	\$4,000	2009
Spotsylvania County	29,741	2,002	\$19.03		\$25.74		\$32.45		\$10,868	2019	S	\$1,290	2008	\$4,920	2008
Stafford County	36,526	1,627	\$22.03		\$25.77		\$30.90		\$5,128	2019	S	\$6,900	2010		
Staunton, City of	8,507	1,230	\$14.72	\$22.08	\$18.40	\$27.60	\$23.92	\$35.88	\$4,931	2019	S	\$2,100	2016	\$3,500	2016



## Water Data

	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Outside (3,000 gal./mo.) <sup>1</sup>	Residential Water Rate Inside (4,000 gal./mo.)	Residential Water Rate Outside (4,000 gal./mo.)	Residential Water Rate Inside (5,000 gal./mo.)	Residential Water Rate Outside (5,000 gal./mo.)	Water Rate - Business Inside (1 million gal./mo.)	Last Water Rate Change	Water Source <sup>2</sup>	Residential Connection Fee <sup>3</sup>	Last Water Connection Fee Change	Residential Capital Recovery Charge <sup>3</sup>	Last Water CRC Rate Change
Stanley, Town of	1,513	91	\$20.50	\$25.10	\$22.00	\$27.40	\$23.50	\$29.70		2018	G	\$2,700	2018	\$1,125	2018
Strasburg, Town of	2,525	159	\$38.36	\$53.70	\$51.15	\$71.61	\$63.94	\$89.52	\$18,051	2019	S	\$6,500	2010		
Sussex Service Authority	896	104	\$28.00		\$28.00		\$28.00		\$7,000	2019	G	\$1,800	2020		
Tazewell County Public Service Authority	6,184	334	\$45.89		\$53.80		\$62.46		\$8,299	2019	S	\$1,100			
Tazewell, Town of	1,714	226	\$33.31	\$46.81	\$40.62	\$55.97	\$47.93	\$65.13		2019	S	\$540			
Warrenton, Town of	4,254	630	\$11.04	\$16.57	\$16.73	\$25.11	\$22.42	\$33.65	\$5,859	2019	C	Cost + \$2,000		\$4,950	2016
Warsaw, Town of	600	100	\$11.00	\$12.10	\$11.00	\$12.10	\$12.49	\$13.74	\$2,983	2015	G	\$3,000	2013		
Waynesboro, City of	8,007	881	\$20.02	\$21.58	\$25.23	\$27.31	\$30.44	\$33.04	\$5,289	2019	G	Min of \$800	1999	\$2,725	1999
Western Virginia Water Authority - Botetourt Co.	1,477	265	\$26.50		\$31.25		\$36.00		\$7,180	2019	G	\$2,000		\$3,000	
Western Virginia Water Authority - Franklin Co.	1,823	163	\$45.00		\$50.00		\$55.00		\$6,800	2019	C	\$2,000		\$3,000	
Western Virginia Water Authority - Roanoke City/County)	52,489	8,241	\$21.25		\$24.23		\$27.25		\$4,543	2019	C	\$2,000		\$3,000	
West Point, Town of	1,127	184	\$22.45		\$22.45		\$22.45		\$5,694	2018	G	\$500	2007	\$3,500	2007
Windsor, Town of	1,135	5	\$22.50	\$24.00	\$30.00	\$32.00	\$37.50	\$40.00	\$7,500	2017	G	\$1,000	2006	\$5,000	2005
Wise County Public Service Authority	4,375	175	\$42.50		\$55.00		\$67.50		\$12,009	2019	S	\$1,200	2019		
Wythe County	3,149	217	\$37.80		\$47.25		\$56.70		\$9,459	2018	S				
Wytheville, Town of	4,065	688	\$24.11	\$48.22	\$32.46	\$64.92	\$40.81	\$79.62	\$4,003	2019	S	\$1,500 + Meter	2005		



## Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Albemarle County Service Authority	27,517	1,146	\$28.41		\$37.88		\$47.35		\$9,470	2019	Cost	2017	\$6,820	2017
Alexandria Renew / City of Alexandria	22,990	3,528	\$40.56		\$50.47		\$60.38		\$8,442	2019				
Alleghany County	1,909	134	\$45.00		\$45.00		\$45.00		\$10,493	2019	\$1,000	2000		
Altavista, Town of	1,280	54	\$8.47	\$16.93	\$11.29	\$22.58	\$14.11	\$28.22	\$2,890	2019	\$2,000	2018		
Amelia County	239	119	\$25.00		\$25.00		\$30.00		\$5,250	2017	Cost + 100%	2007	\$4,000	2013
Amherst County Service Authority	944	249	\$31.35		\$41.16		\$51.04		\$9,813	2019	\$1,400	2015	\$3,810	2015



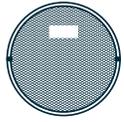
# Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Amherst, Town of	680	142	\$47.90	\$95.80	\$54.75	\$109.50	\$61.60	\$123.20	\$15,265	2019	\$2,200			
Appomattox, Town of	754	188	\$47.85		\$65.10		\$82.35		\$17,246	2019	\$2,200	2013	\$3,000	2019
Appalachia, Town of			\$41.11	\$57.11	\$48.88	\$69.26	\$56.64	\$81.41	\$8,163	2019	\$1,250	2019		
Arlington County	35,166	1,662	\$27.30		\$36.40		\$45.50		\$9,100	2019			\$115/DFU	2013
Augusta County Service Authority	8,511	746	\$40.56		\$50.19		\$59.82		\$9,924	2019	\$1,250		\$4,900	
Bedford Regional Water Authority	4,238	610	\$44.00	\$46.20	\$45.50	\$53.70	\$57.00	\$61.20	\$6,448	2019	\$1,500		\$5,000	2018
Berryville, Town of	1,466	207	\$51.00		\$68.00		\$85.00		\$17,000	2013	\$22,750	2008		
Big Stone Gap, Town of	2,327	258	\$31.27	\$51.96	\$37.13	\$61.31	\$42.99	\$70.66	\$5,874	2018				
Blacksburg, Town of	9,040	126	\$21.02	\$36.80	\$27.04	\$47.34	\$33.06	\$57.88	\$6,023	2019	\$1,013	2019	\$2,500	2019
Bowling Green, Town of	396	84	\$45.46	\$51.38	\$49.85	\$56.34	\$54.24	\$61.30	\$6,400	2019	\$750	2019	\$6,000	2000
Boones Mill, Town of			\$58.00	\$78.00	\$64.00	\$84.00	\$70.00	\$90.00	\$6,020	2018	\$4,000			
Bridgewater, Town of	1,860	353	\$29.45		\$36.77		\$44.09		\$8,588		\$7,172			
Bristol Virginia Utilities Authority	6,703	966	\$25.36	\$38.04	\$29.10	\$43.65	\$32.84	\$49.26	\$3,995	2019	\$2,250			
Buckingham County	178	42	\$40.85		\$40.85		\$54.05		\$13,586	2018	\$2,500	1994		
Buena Vista, Town of	2,430		\$22.32		\$29.76		\$37.20		\$7,440	2014				
Campbell County Utility and Service Authority	3,076	301	\$25.82	\$25.82	\$32.41	\$32.41	\$39.03	\$39.03	\$6,610	2012	\$1,900	2010	\$2,200	2010
Cape Charles, Town of	1,160	110	\$66.11		\$70.22		\$74.33			2019	\$875	2012	\$6,600	2012
Caroline County	993	114	\$52.12		\$61.67		\$71.52		\$10,588	2018	Min of \$1,000	2018	\$6,000	2018
Carroll County PSA	891	210	\$42.00		\$52.00		\$62.00		\$7,589	2019	\$1,250			
Chase City, Town of	1,000	25	\$23.90	\$30.59	\$30.10	\$38.53	\$36.30	\$46.46	\$3,590	2017	\$600			
Chesapeake Public Utilities	64,050	3,332	\$39.20		\$51.77		\$66.81			2017	\$3,519	2007		
Chesterfield County	113,136	3,761	\$25.71		\$28.72		\$31.73		\$3,364	2019			\$5,400	2018
Chilhowie, Town of	1,040	121	\$24.36	\$55.82	\$29.23	\$67.01	\$34.10	\$78.20	\$5,315	2019	\$900	2016		
Christiansburg, Town of	8,900	355	\$30.50	\$45.76	\$40.75	\$61.14	\$51.00	\$76.52	\$10,250	2018	\$3,000	2015		
Clarke County Sanitary Authority	325	30	\$58.50		\$58.50		\$65.96		\$14,924	2019	\$16,200	2006		
Clarksville, Town of	730	151	\$43.33	\$98.18	\$43.33	\$98.18	\$43.33	\$98.18	\$12,978	2016	\$800	2009	\$800	2009
Clifton Forge, Town of	1,600	200	\$74.20		\$74.20		\$74.20		\$7,427	2016				
Coeburn, Town of	995	130	\$33.46	\$55.53	\$41.18	\$68.85	\$48.91	\$82.17		2015	Cost +\$50			
Culpeper, Town of	6,387	650	\$24.46		\$32.28		\$40.10		\$7,062	2018	\$281	2012	\$10,000	2009
Danville, City of	16,159	2,300	\$23.52		\$26.61		\$29.95		\$3,635	2019	\$1,700	2019		
Dinwiddie County Water Authority	3,450	140	\$20.82		\$26.82		\$32.82		\$5,805	2017	\$3,910			
Dungannon, Town of	178	3	\$24.50	\$28.50	\$29.50	\$33.50	\$34.50	\$38.50	\$5,010	2016	\$175	2016	\$750	2016



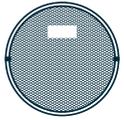
# Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Edinburg, Town of	528	42	\$31.00	\$46.50	\$37.00	\$55.53	\$43.00	\$64.56		2019	\$10,000	2009		
Emporia, City of	2,118		\$29.87		\$38.00		\$46.13		\$6,311	2019	\$4,000	2015		
Exmore, Town of	275	70	\$44.50		\$44.50		\$44.50		\$5,919	2019	\$6,500	2017		
Farmville, Town of	3,194	631	\$20.17	\$30.26	\$24.59	\$36.89	\$29.00	\$43.51	\$6,288	2018	\$4,000	2013		
Fauquier County Water and Sanitation Authority	4,411	244	\$58.21		\$67.83		\$77.45		\$10,897	2019			\$14,000	2016
Ferrum Water and Sewer Authority	148	30	\$31.50		\$39.00		\$46.50		\$7,620	2017	Cost + \$500	2014	\$2,500	2017
Fincastle, Town of	210		\$38.50		\$45.19		\$51.88		\$7,234	2019	\$2,000	2012	\$2,500	2012
Franklin, City of	3,214	252	\$32.30	\$36.95	\$36.73	\$45.62	\$41.16	\$51.29	\$4,449	2016	\$4,500	2005		
Frederick Water	15,047	700	\$38.22		\$43.39		\$48.56		\$8,649	2019	\$3,076	2018		
Fredericksburg, City of	6,200	1,847	\$26.93		\$32.35		\$37.77		\$5,431	2019	\$5,100	2012	\$5,000	2012
Front Royal, Town of			\$16.17	\$32.34	\$30.08	\$60.16	\$43.99	\$87.98	\$13,882	2014	\$10,232			
Galax, City of	3,200	500	\$14.50	\$29.00	\$19.00	\$38.00	\$23.50	\$47.00	\$4,501	2017	\$1,000			
Gate City, Town of			\$38.25		\$47.65		\$57.05		\$10,958	2013				
Glasgow, Town of	520	12	\$32.08	\$41.00	\$33.38	\$44.30	\$34.68	\$47.60	\$2,327	2019	\$2,500	2015		
Gloucester, County of	1,504	689	\$39.59		\$52.36		\$64.95		\$11,206	2013	\$5,205	2008	\$1,200	2008
Goochland, County of	1,864	183	\$39.98		\$47.26		\$54.54		\$14,208	2019	\$6,300	2019		
Greensville County WSA	1,600	92	\$33.16		\$33.16		\$39.79		\$7,738		\$1,320		\$835	
Gretna, Town of			\$17.05	\$34.09	\$20.70	\$41.39	\$24.35	\$48.69	\$3,656	2019	\$400			
Halifax County Service Authority	4,040	425	\$36.10		\$41.80		\$47.50		\$5,355	2019			\$1,500	2008
Hampton, City of	43,640	2,040	\$26.67		\$35.56		\$44.44		\$8,890	2013	Based on Frontage			
Hanover County	19,348	1,671	\$30.70		\$38.25		\$45.80		\$5,690	2019			\$6,459	2019
Harrisonburg, City of	16,873	2,568	\$17.31	\$25.74	\$23.08	\$34.32	\$28.85	\$42.90	\$5,620	2019	\$4,500			
Henrico County	90,206	5,098	\$31.05		\$36.15		\$41.24		\$5,241	2019	\$5,955			
Henry Co. Public Service Authority	7,136		\$30.00		\$30.00		\$34.70		\$14,034	2013	\$1,750	2013		
Hillsville, Town of	1,050	185	\$28.61	\$43.32	\$35.19	\$51.68	\$41.77	\$60.04	\$7,690	2019	\$683	2011		
James City Service Authority	23,283	1,290	\$34.85		\$45.80		\$56.75		\$11,100	2019	\$400/Fixture		\$1,050	1989
Kenbridge, Town of	417	144	\$52.28	\$75.53	\$60.37	\$86.70	\$68.48	\$97.87		2012	\$500			
Kilmarnock, Town of	786	260	\$26.88	\$40.32	\$33.13	\$49.69	\$39.38	\$59.07	\$12,533	2008	\$8,040	2006		
King George County Service Authority	2,284	187	\$65.31		\$76.94		\$88.57		\$13,364	2019	\$1,162		\$10,021	2013
Lawrenceville, Town of	830	145	\$15.14	\$26.47	\$19.28	\$33.69	\$23.42	\$40.92	\$4,143	2019	Cost + \$400			
Leesburg, Town of	15,000	1,038	\$28.27	\$38.53	\$34.84	\$48.52	\$41.41	\$58.51	\$7,212	2019	\$7,292			
Lexington, City of	2,500	550	\$36.81	\$49.70	\$49.09	\$66.27	\$61.36	\$82.84	\$27,426	2018	\$1,625	2018	\$385	2018



## Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Loudoun Water	74,928	5,944	\$26.44		\$31.41		\$36.38		\$5,220	2019	\$80		\$8,373	2019
Louisa Co. Water Authority - Zion Crossroads	622	42	\$35.48		\$35.48		\$44.35		\$8,870	2019	\$5,250	2004		
Louisa Co. Water Authority - Northeast Creek	37	47	\$35.48		\$35.48		\$44.35		\$8,870	2019	\$5,250	2004		
Louisa, Town of	739	154	\$34.34	\$50.36	\$34.34	\$50.35	\$41.53	\$58.99	\$7,224	2019	\$7,720			
Lovettsville, Town of	898	44	\$37.44	\$56.16	\$51.67	\$77.50	\$65.90	\$98.85		2017	\$2,000			
Luray, Town of	2,125	72	\$47.71	\$71.57	\$54.75	\$82.13	\$61.79	\$92.96	\$7,609	2019	\$5,940	2012	\$1,200	2012
Lynchburg, City of	18,500	2,000	\$28.67		\$36.72		\$44.75		\$8,148	2017	\$1,330	2016	\$1,950	2000
Martinsville, City of	7,000	500	\$23.64		\$23.64		\$26.37		\$2,743	2016	\$850	2014		
Mineral, Town of	112	34	\$35.40		\$44.25		\$53.10		\$8,859	2013	\$8,000	2007		
Monterey, Town of	181	53	\$40.00		\$40.00		\$44.50			2019	\$1,125			
Mount Crawford, Town of	192	12	\$37.50		\$44.60		\$51.70				\$5,300			
Narrows, Town of	907	12	\$35.77	\$41.24	\$44.14	\$48.20	\$52.51	\$55.16		2019	\$1,500			
New Kent County			\$33.75		\$43.86		\$53.97		\$12,047	2017				
New Market, Town of	950	113	\$53.71	\$94.01	\$69.72	\$122.03	\$85.73	\$150.05	\$16,016	2019	\$3,000			
Norton, City of	1,558	385	\$42.44	\$78.90	\$53.20	\$103.50	\$63.96	\$128.10	\$10,773	2019	\$175			
Onancock, Town of	590	59	\$64.38		\$86.11		\$107.53			2019	\$1,200			
Orange, Town of	1,423	292	\$41.88	\$83.52	\$47.38	\$91.62	\$52.88	\$99.72	\$6,665	2012	\$12,330			
Pittsylvania County Service Authority	1,344	185	\$25.00		\$25.00		\$25.00		\$2,013		\$1,555			
Portsmouth, City of	29,768	2,458	\$36.50		\$48.59		\$60.74		\$12,148	2019	\$150	2013		
Pound, Town of	439	54	\$37.71	\$54.31	\$46.28	\$67.16	\$54.85	\$80.01		2019	\$800			
Powhatan County	100	107	\$33.46		\$40.07		\$46.68		\$6,951	2019	\$8,100			
Prince William County Service Authority	116,659	3,300	\$30.10		\$36.65		\$42.20		\$7,411	2019	\$10,800	2012		
Pulaski County Public Service Authority	1,233	150	\$36.51	NA	\$44.21	NA	\$51.91	NA	\$7,273	2019	\$700			
Pulaski County Sewerage Authority	850	135	\$26.50		\$27.75		\$29.00		\$4,425	2019	\$500			
Purcellville, Town of			\$55.35	\$103.20	\$71.30	\$135.10	\$87.25	\$167.00	\$16,137	2019				
Radford, City of	4,915	456	\$18.36		\$24.48		\$30.60		\$4,455	2014	\$1,500	2014	\$1,500	2014
Rapidan Service Authority	6,347	290	\$34.40		\$43.18		\$51.96			2019	\$10,000			
Rappahannock County Water and Sewer Authority	174	43	\$50.00		\$50.00		\$50.00			2018	\$7,500			
Rockbridge County PSA - Rivermont and Riveria	1,411	288	\$46.69		\$56.44		\$66.19		\$10,036	2019	\$850	2007	\$4,500	2007
Rockingham County	4,396	282	\$16.30		\$21.45		\$26.60		\$5,151	2017	\$625		\$5,300	2009
Rocky Mount, Town of	1,752	330	\$17.85	\$35.70	\$21.37	\$42.74	\$24.89	\$49.78	\$3,328	2019	\$1,000	2016		
Rural Retreat, Town of			\$24.15		\$28.95		\$33.75		\$6,458	2017	\$400			



## Wastewater Data<sup>4</sup>

	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	WW Rate Business Inside (1 million gal./mo.)	Last WW Rate Change	Residential Connection Fee Wastewater	Last WW Connection Fee Change	Residential Capital Recovery Charge	Last WW CRC Rate Change
Saint Paul, Town of	355	75	\$26.64	\$45.83	\$33.95	\$57.33	\$41.27	\$68.82	\$7,320	2016	Min of \$350			
Salem, City of	8,154	1,087	\$38.87		\$44.26		\$49.65		\$5,435	2015	\$2,100	2014	\$1,000	2014
Scott County Public Service Authority	900	100	\$42.11		\$54.87		\$67.63		\$12,719	2019	\$2,000	2015		
Shenandoah, Town of	856	68	\$23.65	\$36.50	\$28.15	\$44.00	\$32.65	\$51.50	\$4,511	2018	\$5,000			
Smithfield, Town of	3,117	470	\$43.65	\$46.35	\$55.09	\$58.69	\$66.53	\$71.03	\$11,454	2019	\$1,580		\$4,120	2007
Smyth County	1,167	10	\$40.01	\$40.01	\$49.30	\$49.30	\$58.59	\$58.59	\$11,467	2016	\$850	2016		
South Hill, Town of	2,900	450	\$19.25	\$38.50	\$26.40	\$52.80	\$30.80	\$57.20	\$4,400	2016	\$1,500			
Southampton County	1,387	80	\$36.00		\$36.00		\$44.00			2018	\$1,800		\$6,000	2009
Spotsylvania County	28,859	1,759	\$20.27		\$25.99		\$31.71		\$6,287	2019	\$2,220		\$4,920	2008
Stafford County	33,555	1,261	\$35.20		\$41.56		\$47.92		\$6,697	2019	\$3,500			
Staunton, City of	8,194	1,127	\$19.52	\$29.28	\$24.40	\$36.60	\$31.72	\$47.58	\$6,539	2016	\$2,600	2019	\$9,850	2019
Stanley, Town of	923	64	\$29.40		\$30.70		\$32.00			2018	\$3,000		\$1,625	
Strasburg, Town of	2,479	152	\$35.17	\$49.24	\$48.32	\$67.65	\$61.47	\$86.06	\$16,383	2019	\$6,500	2010		
Sussex Service Authority	1,890	176	\$42.50		\$42.50		\$42.50		\$10,000	2019	\$2,300			
Tazewell County Public Service Authority	2,285	227	\$45.14		\$53.80		\$62.46		\$8,305	2018	\$900	2016		
Tazewell, Town of	2,178	208	\$37.35	\$54.25	\$46.20	\$66.00	\$55.05	\$77.75		2019	\$540			
Warrenton, Town of	3,748	595	\$21.52	\$32.28	\$30.87	\$46.30	\$40.22	\$60.32	\$9,733	2019	Cost + \$3,000		\$10,800	2016
Warsaw, Town of	600	100	\$40.00	\$44.00	\$40.00	\$44.00	\$46.00	\$50.60	\$12,004	2015	\$7,000			
Waynesboro, City of	7,418	787	\$33.50	\$36.14	\$42.29	\$45.81	\$51.10	\$55.48	\$8,866	2019	Min of \$800		\$4,250	1999
Western Virginia Water Authority - Botetourt Co.	1,039	274	\$26.75		\$30.50		\$34.25		\$4,066	2019	\$2,000		\$3,000	
Western Virginia Water Authority - Franklin Co.	32	47	\$33.50		\$39.50		\$45.50		\$6,465	2019	\$2,000		\$3,000	
Western Virginia Water Authority - Roanoke City/County	49,218	8,687	\$26.75		\$30.50		\$34.25		\$4,066	2019	\$2,000		\$3,000	
West Point, Town of														2007
Windsor, Town of														2005
Wise County Public Service Authority	860	25	\$57.25		\$70.75		\$84.25		\$13,517	2019	\$1,200			
Wythe County	629	104	\$22.00		\$28.90		\$35.80		\$8,870	2015	\$500	2009		
Wytheville, Town of	3,865	688	\$18.43	\$36.86	\$24.56	\$49.12	\$30.69	\$61.38	\$6,452	2019	\$1,500			

<sup>4</sup>Participants provided wastewater treatment services by the Hampton Roads Sanitation District (HRSD): Chesapeake Public Utilities, City of Hampton, City of Portsmouth, Town of Smithfield, Gloucester County and James City Service Authority included the HRSD wastewater treatment charges in their responses. As a result, the data listed in the wastewater section of this report includes the HRSD wastewater treatment charges as follows: 3,000 gallons per month (or 401 cubic feet) - \$23.50; 4,000 gallons per month (or 535 cubic feet) - \$31.33; 5,000 gallons per month (or 668 cubic feet) - \$39.17 and 1,000,000 gallons per month (or 133,681 cubic feet) - \$7,833.68. In addition, the HRSD facility charge of \$1,895 for a 5/8-inch meter is included in the capital recovery charges included in this section of the report.



# Draper Aden Associates

*Engineering • Surveying • Environmental Services*

*Lasting Positive Impact®*

1030 Wilmer Avenue  
Suite 100  
Richmond, VA 23227

