

# The 32<sup>nd</sup> Annual Virginia Water and Wastewater Rate Report 2020



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 32 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 259 water and sewer providers; data from fifty-five percent (55%), or 143 utilities is included in this report. The information summarized herein includes:

- 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.

**55%**  
Response Rate

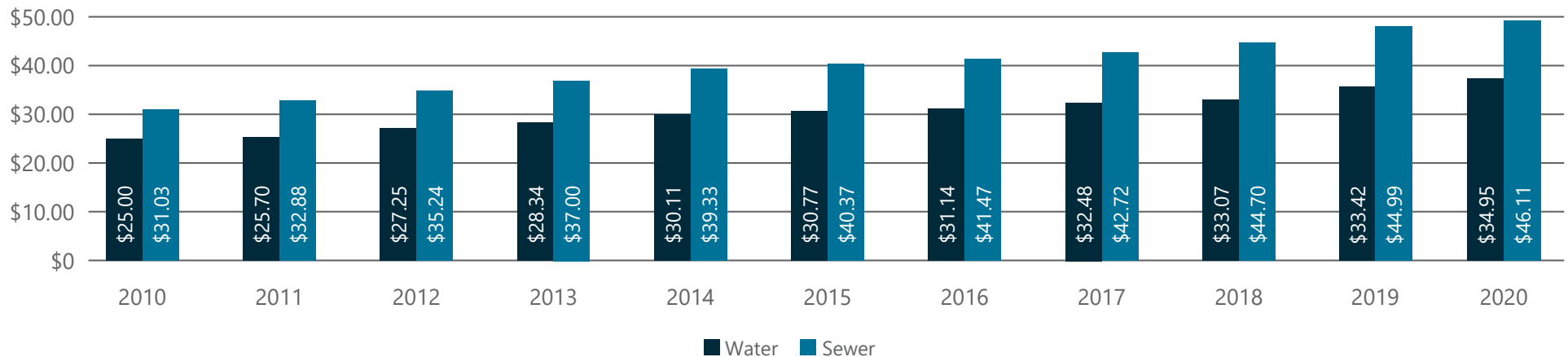
We are pleased to share these results and express our gratitude to all who participated in this effort.

## 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 4.6% in 2020 and the average sewer rate increased by 2.5%. Since 2010, water rates have increased by approximately 3.4% per year and wastewater rates have increased by approximately 4.0% per year.

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



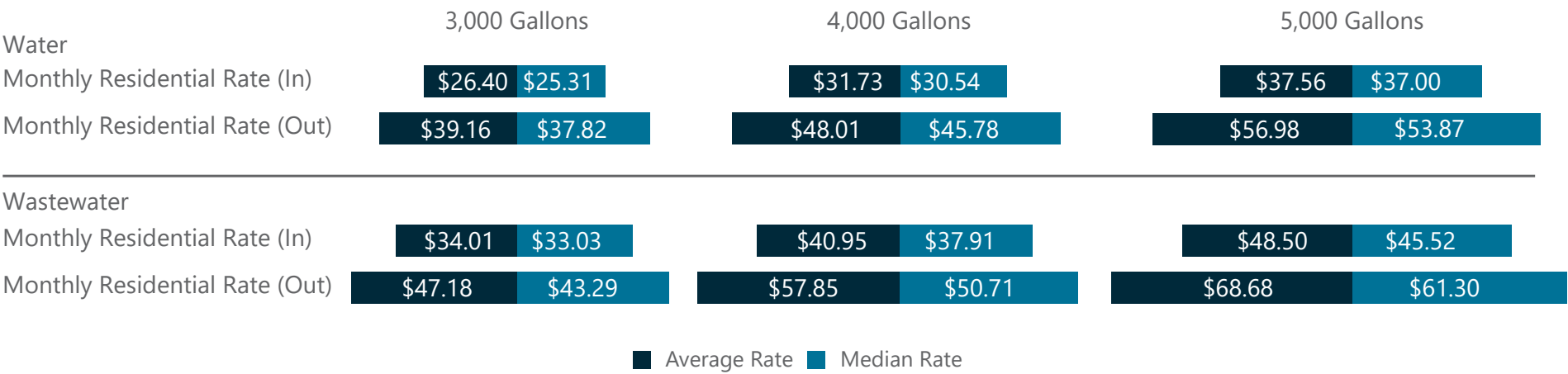
# Water and Wastewater Rates

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, 2020.



Residential Connections	# of Replies	Smallest System # of Connections	Largest System # of Connections	Average # of Connections	Median # of Connections
Water	138	7	362,062	11,214	2,427
Wastewater	123	38	128,208	8,227	1,984

## Monthly Residential Rates

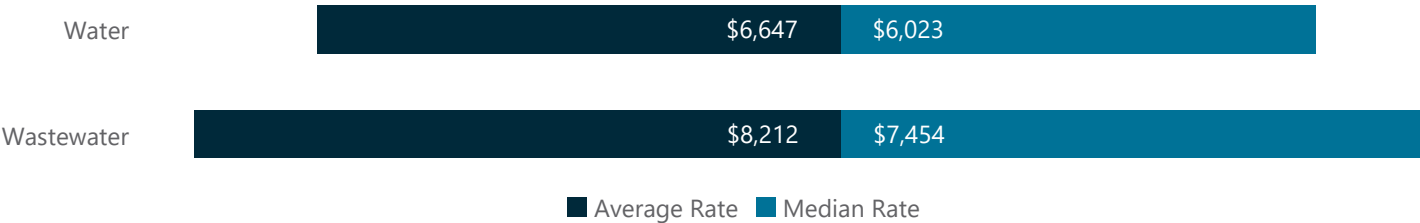


Utilities were also asked to provide the rate for a non-residential customer that uses 1,000,000 gallons per month. If the size of the meter influences the charges, the utility was to assume a 4-inch meter.



Non-residential Connections	# of Replies	Smallest System # of Connections	Largest System # of Connections	Average # of Connections	Median # of Connections
Water	128	2	12,703	736	204
Wastewater	121	1	7,131	644	194

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



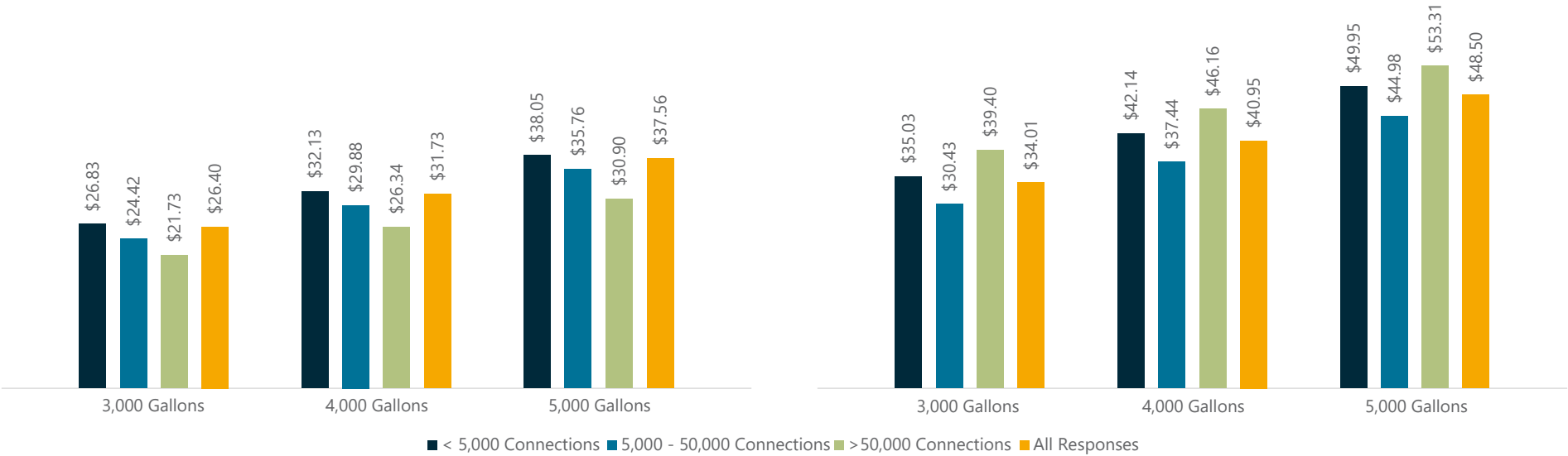
### Water Rate Summary by System Size

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.

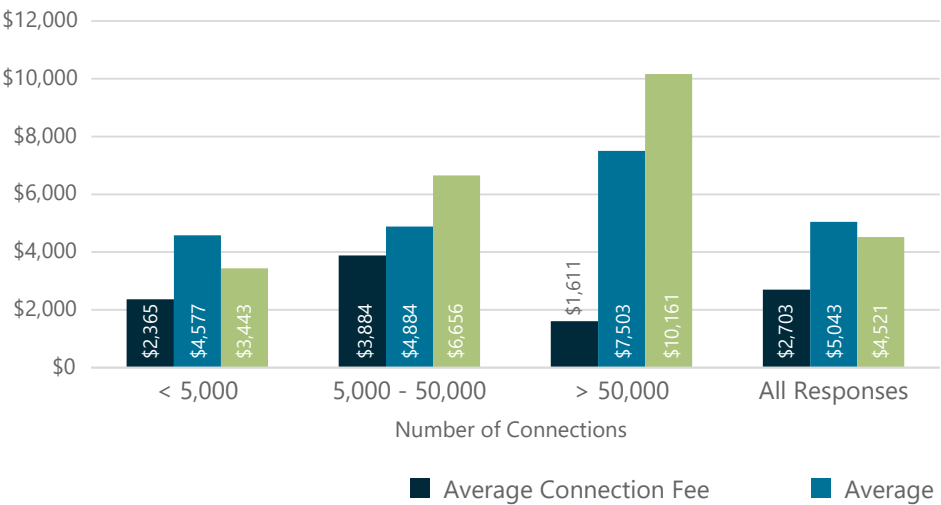
	Connection Fees		Capital Recovery Charges		Combined Charges	
	Water	Wastewater	Water	Wastewater	Water	Wastewater
Average	\$2,703	\$3,339	\$5,043	\$5,034	\$4,521	\$4,799
Median	\$1,500	\$2,000	\$3,500	\$4,375	\$3,500	\$4,050
High	\$18,100	\$14,000	\$25,754	\$21,600	\$32,910	\$21,600
Low	\$80	\$25	\$500	\$427	\$88	\$25

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



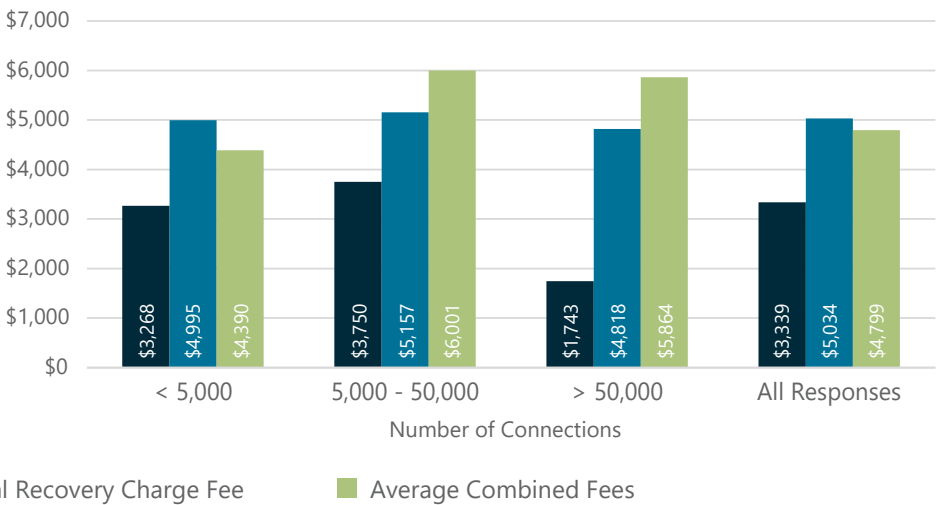
## Water Connection and Capital Recovery Charges by System Size

Connection Fees and Capital Recovery Charges  
Water Systems



## Wastewater Connection and Capital Recovery Charges by System Size

Connection Fees and Capital Recovery Charges  
Wastewater Systems





# 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.)	Billing Frequency	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	31,804	1,492	\$22.01		\$30.99		\$39.97		M	\$8,795	2019	S	\$1,026	2013	\$6,650	2017
Alleghany County	2,555	187	\$46.00		\$46.00		\$46.00		M	\$9,499	2020	S	\$1,000	2000		
Altavista, Town of	1,615	64	\$14.75	\$22.97	\$17.50	\$28.46	\$20.25	\$33.95	Q	\$2,853	2020	C	\$1,500	2018		
Amelia County	294	147	\$22.50		\$27.00		\$31.50		M	\$4,725		G	COST+100%	2007	\$3,000	2013
Amherst County Service Authority	6,418	535	\$33.45		\$40.62		\$47.74		B	\$7,176	2020	S	\$1,500	2020	\$3,000	2020
Amherst, Town of	1,131	164	\$38.85	\$77.70	\$46.60	\$93.20	\$54.35	\$108.70	M	\$12,250	2019	S			\$1,700	
Appalachia, Town of	1,126	35	\$26.75	\$38.60	\$32.50	\$47.60	\$38.25	\$56.60	M	\$6,043	2019	S	\$1,250	2019		
Appomattox, Town of	944	231	\$17.50		\$23.70		\$29.90		M	\$6,199	2020	S	\$1,500		\$2,500	
Arlington County	34,807	1,951	\$14.73		\$19.64		\$24.55		Q	\$4,910	2020	S	\$3,200	2008	\$85/DFU	2013
Augusta County Service Authority	14,270	1,101	\$25.23		\$31.10		\$36.97		B	\$6,099	2020	C	\$1,350	2019	\$2,645	
Bedford Regional Water Authority	13,293	986	\$35.60	\$39.80	\$39.80	\$45.40	\$44.00	\$51.00	M	\$4,788	2019	C	\$1,500	2018	\$4,000	2018
Berryville, Town of	1,519	207	31.95		\$40.10		\$48.25		M		2020	S				
Big Stone Gap, Town of	3,570	303	\$31.26	\$48.00	\$37.41	\$57.85	\$43.56	\$67.70	M		2018	S	\$550			
Blacksburg, Town of	9,466	315	\$24.99	\$43.75	\$32.29	\$56.53	\$39.59	\$69.31	M	\$7,303	2020	S	\$665	2020	\$1,565	2020
Blackstone, Town of			\$24.90	\$37.35	\$33.20	\$49.80	\$41.50	\$62.25	M	\$8,300	2019	S				
Bluefield, Town of	2,200	100	\$32.60	\$48.90	\$40.50	\$60.75	\$48.40	\$72.60	M	\$6,076	2018	S	\$450	2018		
Boones Mill, Town of			\$58.00	\$78.00	\$64.00	\$84.00	\$70.00	\$90.00	M	\$6,020	2018	G	\$3,000			
Bowling Green, Town of	797	96	\$21.08	\$42.16	\$23.12	\$46.24	\$25.16	\$50.32	B	\$2,758	2020	G	\$750	2005	\$6,000	2005
Boydton, Town of			\$21.90	\$31.90	\$26.90	\$41.90	\$31.90	\$51.90	M			S				
Bridgewater, Town of	2,136	184	\$16.56	\$26.88	\$20.43	\$30.75	\$24.30	\$34.62	M	\$4,615	2020	C	\$2,846	2020		
Bristol Virginia Utilities Authority	6,931	955	\$24.09	\$36.14	\$27.75	\$41.63	\$31.41	\$47.12	M	\$3,278	2019	S	\$990	2019		
Broadway, Town of	1,546	155	\$18.31		\$23.40		\$28.49		B		2018	S	\$2,500	2018		
Brodnax, Town of	148	10	\$27.19	\$34.84	\$34.65	\$44.84	\$42.11	\$54.84	M			S				
Brookneal, Town of			\$29.30		\$36.10		\$42.90		M			S				
Buchanan, Town of	480	68	\$48.25	\$72.38	\$48.25	\$72.38	\$51.45	\$77.18	M	\$1,999	2019	G	\$2,200	2010		
Buckingham County	321	95	\$26.12		\$26.12		\$39.72		M	\$13,572	2020	S	\$2,000	1994		
Buena Vista, City of	2,620	199	\$25.74		\$34.32		\$42.90		M	\$8,580	2020	G	\$2,500	2019		
Campbell County Utility & Service Auth.	10,467	561	\$26.81		\$33.07		\$39.34		B	\$6,344	2012	C	\$1,500	2010	\$1,900	2010
Cape Charles, Town of	1,160	110	\$35.57		\$38.20		\$40.83		M		2019	G	\$875	2012	\$4,000	2012
Caroline County	1,652	138	\$23.16		\$24.68		\$26.51		M	\$2,043	2018	G	MIN-\$1,000	2018	\$5,000	2018

<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.)	Billing Frequency	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
Carroll County PSA	3,689	165	\$37.80		\$47.25		\$56.70		M	\$4,773	2019	C	\$1,250	2019		
Charlotte Court House, Town of	257	58	\$37.00		\$41.00		\$45.00		M		2015	S	\$1,450			
Chatham, Town of	717	216	\$15.42	\$25.65	\$20.56	\$34.20	\$25.70	\$42.75	Q	\$5,140	2018	S	\$1,000	2018		
Chesterfield County	131,068	5,591	\$18.80		\$21.68		\$24.55		B	\$3,068	2019	S	\$1,980	2018	\$5,725	2018
Chilhowie, Town of	2,100	144	\$25.34	\$48.95	\$30.39	\$58.76	\$35.45	\$68.57	M	\$5,670	2021	G	\$900	2016		
Chincoteague, Town of	2,500	1,095	\$14.03		\$18.39		\$22.75		Q	\$5,521	2012	G	\$670	2012	\$3,708	2012
Christiansburg, Town of	9,894	787	\$28.00	\$42.00	\$38.00	\$57.00	\$48.00	\$72.00	M	\$7,623	2019	S	\$3,000	2015		
Clarke County Sanitary Authority	451	31	\$38.70		\$51.60		\$64.50		B	\$12,900	2019	G			\$13,800	2006
Clarksville, Town of			\$30.00	\$59.75	\$33.50	\$66.73	\$37.00	\$73.70	B	\$7,039		S				
Coeburn, Town of	1,550	165	\$25.74	\$37.02	\$31.68	\$45.90	\$37.62	\$54.78	M		2015	S	COST+\$50			
Craig-New Castle Public Service Authority	425	70	\$24.68		\$30.43		\$36.18		M	\$10,013	2020	G	\$2,000	2005		
Craigsville, Town of			\$37.00		\$37.00		\$37.00		M	\$9,490		G	\$2,000			
Culpeper, Town of	6,841	747	\$19.17		\$25.56		\$31.95		M	\$3,973	2019	G	COST	2019	\$6,500	2006
Danville, City of	17,500	2,500	\$19.25		\$22.63		\$26.27		M	\$3,688	2019	S	\$1,500	2019		
Dinwiddie County Water Authority	3,545	185	\$15.70		\$20.01		\$24.32		M	\$3,902	2017	C	\$1,618	2015		
Dublin, Town of	2,494	204	\$30.87	\$44.14	\$37.25	\$51.95	\$43.63	\$59.76	M	\$5,904	2020	S	\$1,500	2020		2020
Dungannon, Town of	221	5	\$29.25	\$35.25	\$39.00	\$47.00	\$48.75	\$58.75	M		2012	G	\$88			
Edinburg, Town of	561	50	\$28.50	\$42.75	\$56.50	\$84.75	\$63.50	\$95.25	M	\$6,023	2019	G	\$5,000			
Elkton, Town of	1,253	29	\$15.47		\$19.28		\$23.09		M		2020	G	\$7,000			
Fairfax Water	62,062	12,703	\$14.40		\$17.60		\$20.80		Q	\$3,248	2020	S	\$1,370	2020	\$22,350	2020
Farmville, Town of	3,198	646	\$16.81	\$25.22	\$20.49	\$30.74	\$24.17	\$36.26	M	\$5,240	2018	S	\$1,000	2020		
Fauquier County Water and Sanitation Authority	7,251	203	\$44.72		\$51.72		\$57.62		M	\$10,897	2019	G	\$11,120	2016		
Ferrum Water & Sewer Authority	194	30	\$24.00		\$29.50		\$35.00		M	\$5,570	2017	G	COST+\$500	2017	\$1,500	2017
Fincastle, Town of	180	35	\$28.18		\$32.28		\$36.38		M		2020	G	\$2,000	2012	\$2,500	2012
Franklin, City of	3,260	252	\$23.82	\$29.86	\$27.02	\$33.82	\$30.22	\$37.78	M	\$3,214	2016	G	\$3,500			
Frederick Water	15,911	682	\$21.69		\$26.01		\$30.33		B	\$7,796	2019	C	\$14,115	2019		
Galax, City of	3,200	500	\$16.00	\$32.00	\$20.50	\$41.00	\$25.00	\$50.00	B	\$4,503	2020	S				
Gate City, Town of	1,087	140	\$36.05	\$44.96	\$43.95	\$52.05	\$51.85	\$59.95	M	\$7,912	2014	S	\$650	2014		
Glasgow, Town of	516	12	\$31.50	\$47.25	\$36.40	\$56.15	\$41.30	\$65.05	M	\$608	2019	G	\$2,625	2019		
Gloucester, County of	6,552	894	\$30.18		\$40.18		\$50.18		M	\$10,397	2013	C	\$3,500	2008	\$500	2008
Goochland, County of	1,521	305	\$25.52		\$32.05		\$38.58		B	\$9,388	2019	S	\$4,400	2019		
Greensville County WSA	1,725	103	\$18.31		\$24.41		\$30.51		M	\$6,430	2020	C	\$960			
Halifax County Service Authority	3,890	420	\$24.00		\$29.00		\$34.00		B	\$4,049	2018	S			\$1,250	2008
Hamilton, Town of	701	29	\$17.13	\$23.13	\$22.84	\$30.84	\$35.59	\$48.05	B		2019	G	\$18,100	2010		





# 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.)	Billing Frequency	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
Hanover County	20,195	1,800	\$13.83		\$18.97		\$24.11		B	\$4,128	2019	C			\$6,281	2019
Harrisonburg, City of	18,613	3,074	\$12.77	\$18.98	\$16.36	\$24.64	\$19.95	\$30.30	M	\$3,385	2019	S	\$2,500	2010		
Henrico, County of	94,256	6,003	\$22.19		\$25.78		\$31.16		B	\$4,949	2019	S	\$2,625	2018	\$4,635	2018
Henry Co. Public Service Authority	12,288	926	\$30.00		\$30.00		\$34.70		M	\$7,017	2013	C	\$1,750	2013		
Highland County - McDowell Water System	56	21	\$35.00		\$35.00		\$42.50		B	\$7,470	2006	G	COST+\$200			
Isle of Wight County	4,106	156	\$50.17		\$61.37		\$72.57		B	\$1,108	2020	C	\$4,000			
James City Service Authority	21,986	1,130	\$16.09		\$19.71		\$26.29		M	\$5,877	2020	G	\$3,219	2020	\$1,436	2020
Kenbridge, Town of	473	97	\$15.15	\$28.11	\$20.15	\$36.15	\$26.15	\$44.19	M		2012	G				
Kilmarnock, Town of	780	252	\$14.50	\$27.50	\$17.47	\$33.10	\$20.44	\$38.70	B	\$5,963	2019	G	\$2,055	2006		
King George County Service Authority	4,245	183	\$35.73		\$40.56		\$45.73		B	\$5,209	2020	G	\$8,662	2013		
King William County	488	41	\$30.00		\$36.00		\$42.00		B	\$6,012	2014		\$4,000	2015		
Leesburg, Town of	17,026	1,148	\$28.66	\$35.55	\$33.59	\$44.64	\$41.54	\$53.73	Q	\$7,164	2020	S	\$80		\$4,683	
Lexington, City of	2,500	600	\$22.50	\$30.36	\$30.00	\$40.48	\$37.50	\$50.60	M	\$15,965	2020	S	MIN-\$1,863	2020	\$691	2020
Loudoun Water	77,662	4,725	\$33.53		\$43.39		\$51.25		Q	\$10,566	2020	C	\$80		\$7,039	2020
Louisa Co. Water Authority Northeast Creek	97	72	\$23.56		\$23.56		\$29.45		M	\$5,890	2019	C	\$3,750	2004		
Louisa Co. Water Authority Zion Crossroads	664	61	\$23.56		\$23.56		\$29.45		M	\$5,890	2019	G	\$3,750	2004		
Louisa, Town of	845	154	\$37.32	\$41.92	\$37.32	\$41.92	\$43.98	\$49.97	M	\$6,697	2019	C	\$4,780			
Luray, Town of	2,193	126	\$38.19	\$57.28	\$43.76	\$65.64	\$49.33	\$73.99	M	\$6,028	2020	G	\$3,320	2010	\$1,200	2010
Lynchburg, City of	23,000	2,000	\$13.92		\$17.50		\$21.09		M	\$3,633	2017	S	\$1,150	2017	\$1,220	2000
Manassas, City of	14,069	1,386	\$17.80		\$20.71		\$23.62		M	\$3,365	2020	S				
Marion, Town of	3,505	455	\$22.08	\$44.10	\$30.65	\$61.20	\$39.22	\$78.30	M	\$8,566	2019	S	\$900	2016		
Martinsville, City of	7,000	500	\$25.31	\$31.50	\$25.31	\$31.50	\$28.50	\$35.68	M	\$2,675	2016	S	\$900	2014		
Mineral, Town of	257	51	\$26.50	\$30.00	\$34.50	\$39.00	\$42.50	\$48.00	M	\$8,003	2013	C	\$4,000	2007		
Montross, Town of	228	78	\$21.00	\$31.50	\$21.00	\$31.50	\$21.00	\$31.50	M		2020	G	\$500			
Mount Jackson, Town of	710	102	\$21.60	\$32.40	\$28.80	\$43.20	\$36.00	\$54.00	M	\$7,200	2019	G	\$5,000	2019		
Nelson County	88	14	\$29.90		\$29.90		\$36.00		M		2013	S	\$2,000	2013		
Nelson County Service Authority	2,735	200	\$46.00		\$46.00		\$56.50		M		2019	C	\$4,000			
New Kent County	3,140	215	\$24.05		\$31.27		\$38.49		B	\$8,469	2020	G	\$4,650	2012	\$2,500	2012
Norton, City of	1,823	347	\$29.25	\$44.45	\$35.40	\$56.75	\$44.05	\$71.55	M	\$6,168	2019	S	\$240			
Onancock, Town of	657		\$29.21		\$38.80		\$48.39		B		2020	G	\$1,500			
Pembroke,Town of	747		\$34.22	\$46.82	\$36.75	\$50.67	\$41.81	\$58.36	M		2018	G	\$1,500	2010		
Powhatan County	7	114	\$31.01		\$37.74		\$44.47		B	\$7,000	2019	C	\$4,100			
Purcellville, Town of	2,657	332	\$28.59	\$49.71	\$37.47	\$67.49	\$46.37	\$85.27	B	\$49,377	2019	S	\$395	2019	\$25,754	2019
Radford, City of	5,385	2	\$16.32		\$20.40		\$24.48		M		2014	S	\$1,500	2014		



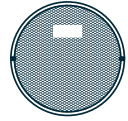
## Water Data

	# 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.)	Billing Frequency	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
Rapidan Service Authority	7,854	499	\$19.71		\$25.28		\$30.85		M	\$5,584	2020	S	\$10,000			
Richlands, Town of	2,256	269	\$20.50	\$26.50	\$25.00	\$32.50	\$29.50	\$38.50	M	\$6,009	2018	S	\$400	1986		
Rockbridge County PSA (Long Hollow)			\$40.89		\$50.74		\$60.59		B		2019	G	\$1,025	2007	\$4,000	2007
Rockbridge County PSA (Rivermont and Riveria)	2,592	380	\$35.79		\$43.94		\$52.09		B	\$8,287	2019	G	\$1,025	2007	\$4,000	2007
Rockingham County	4,064	322	\$12.50		\$16.30		\$20.10		M	\$3,799	2017	G	\$3,275	2017		
Rocky Mount, Town of	2,458	472	\$17.85	\$35.70	\$21.37	\$42.74	\$24.89	\$49.78	M	\$3,381	2019	S	\$1,000	2016		
Rural Retreat, Town of			\$23.60	\$41.10	\$28.90	\$50.20	\$34.20	\$59.30	M	\$7,045	2017	G	\$1,000	2017		
Saint Paul, Town of	556	78	\$24.23	\$41.68	\$30.88	\$52.13	\$37.53	\$62.58	M	\$6,654	2018	S	\$750			
Salem, City of	8,093	1,497	\$30.28		\$35.96		\$41.64		M	\$6,707	2020	S	\$1,500	2016	\$2,000	2016
Scott County Public Service Authority	5,214	109	\$39.30		\$49.42		\$59.54		M	\$10,193	2020	C	\$1,500	2015		
Shenandoah, Town of	971	76	\$25.65	\$38.50	\$30.15	\$46.00	\$34.65	\$53.50	M	\$4,513	2020	G	\$6,000	2020		
Smithfield, Town of	3,260	477	\$24.70	\$29.47	\$31.02	\$37.38	\$37.34	\$45.29	B	\$6,326	2019	G	\$660	1999	\$2,720	2007
South Hill, Town of	2,209	493	\$21.49	\$42.98	\$28.32	\$56.64	\$34.65	\$69.30	M	\$4,590	2020	S	\$1,000	1991		
Southampton County	798	25	\$28.00		\$28.00		\$34.00		M		2017	G	\$1,000	2009	\$4,000	2009
Spotsylvania County	30,312	2,016	\$19.03		\$25.74		\$32.45		M	\$10,868	2019	S	\$1,290	2008	\$4,920	2008
Stafford County	38,643	1,621	\$22.03		\$25.77		\$30.90		M	\$5,128	2019	S	\$1,450	2005	\$6,900	2010
Stanley, Town of	1,539	91	\$22.00	\$29.00	\$23.50	\$32.50	\$25.00	\$36.00	M		2020	G	\$3,825	2017		
Staunton, City of	8,592	1,241	\$14.99	\$23.16	\$18.85	\$28.95	\$24.64	\$37.64	B	\$4,931	2019	S	\$2,100	2016	\$3,500	2016
Stoney Creek Sanitary District	1,400	45	\$39.00		\$44.00		\$49.00		B	\$6,540	2013	G	\$4,000	2010		
Stuart, Town of	627	150	\$25.33	\$35.98	\$29.55	\$41.83	\$33.77	\$47.68	M		2020	S	\$600			
Tazewell, Town of	1,745	228	\$39.25	\$58.81	\$49.75	\$74.97	\$60.25	\$91.13	M		2020	S	\$540			
Toms Brook-Maurertown Sanitary District	650	30	\$30.50		\$36.00		\$41.50		M	\$5,514	2013	G	\$4,000	2010		
Troutdale, Town of	80	4	\$22.50		\$30.00		\$37.50		M		2017		\$900	2017		
Urbanna, Town of	550	67	\$19.85	\$38.28	\$23.54	\$45.66	\$27.23	\$53.03	B	\$3,699	2020	G	MIN-\$4,000	2020		
Victoria, Town of	850	15	\$30.50		\$35.57		\$40.84		M	\$6,080	2017	S	\$275			
Vienna, Town of	9,814	346	\$26.95		\$34.40		\$40.50		Q	\$7,411	2020	S	\$16,720	2020	\$16,190	2020
Virginia Beach Public Utilities	128,153	8,012	\$19.11		\$24.01		\$28.91		M	\$4,959	2019	S	MIN-\$3,363	2014	\$2,267	2014
Warrenton, Town of	4,265	628	\$11.28	\$16.93	\$17.17	\$25.77	\$23.06	\$34.61	M	\$6,048	2020	C	COST+\$5,000	2020	\$4,950	2020
Waynesboro, City of	8,192	899	\$24.40	\$26.84	\$29.61	\$32.57	\$34.82	\$38.30	B	\$5,367	2019	G	MIN-\$800	1999	\$2,725	1999
West Point, Town of	1,134	187	\$22.45		\$22.45		\$22.45		B	\$5,694	2018	G	\$500	2007	\$3,500	2007
Western Virginia Water Authority - Botetourt Co.	1,559	232	\$26.50		\$31.25		\$36.00		M	\$6,430	2020	G	\$2,000		\$3,000	
Western Virginia Water Authority - Franklin Co.	2,661	159	\$30.00		\$30.00		\$30.00		M	\$5,400	2020	C	\$2,000		\$3,000	
Western Virginia Water Authority - Roanoke City/County	52,731	4,382	\$22.35		\$25.55		\$28.75		M	\$4,458	2020	C	\$2,000		\$3,000	
Westmoreland County	56	9	\$22.50		\$22.50		\$22.50		B		2018	G				



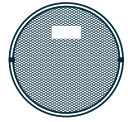
## Water Data

	# 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.)	Billing Frequency	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
Winchester, City of	9,410	1,827	\$37.44	\$56.56	\$44.82	\$67.63	\$52.20	\$78.70	B	\$8,373	2020	S	\$5,300	2017		
Windsor, Town of	1,148	54	\$26.25	\$28.00	\$30.00	\$32.00	\$37.50	\$40.00	B	\$7,500	2018	G	\$1,000	2008	\$5,000	2008
Wise, Town of	2,395	258	\$29.33	\$42.65	\$35.85	\$52.13	\$42.37	\$61.10	M	\$6,530	2019	S	\$500	2000		
Wythe County	2,969	196	\$41.59		\$51.99		\$62.39		M	\$10,410	2020	S	\$1,000			
Wytheville, Town of	4,080	688	\$24.11	\$48.22	\$32.46	\$64.92	\$40.81	\$81.62	M	\$4,003	2019	S	\$1,500+METER	2005		



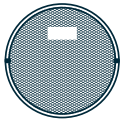
## Wastewater Data<sup>4</sup>

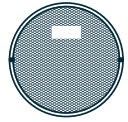
	# Residential Wastewater Units	# Non-Residential Wastewater Units	Residential WW Rate Inside (3,000 gal./mo.)	Residential WW Rate Outside (3,000 gal./mo.)	Residential WW Rate Inside (4,000 gal./mo.)	Residential WW Rate Outside (4,000 gal./mo.)	Residential WW Rate Inside (5,000 gal./mo.)	Residential WW Rate Outside (5,000 gal./mo.)	Billing Frequency	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
Abingdon, Town of	4,076	1,017	\$28.48	\$51.32	\$32.74	\$58.49	\$37.00	\$65.66	M	\$5,701	2018	\$1,500	2018		
Albemarle County Service Authority	28,691	1,162	\$28.41		\$37.88		\$47.35		M	\$9,470	2019	COST	2017	\$6,820	2017
Alexandria Renew / City of Alexandria	23,318	3,513	\$42.77		\$53.18		\$63.59		M	\$8,996	2020	\$9,204	2020		
Alleghany County	1,904	134	\$46.00		\$46.00		\$46.00		M	\$10,742	2020	\$1,000	2000		
Altavista, Town of	1,236	45	\$8.80	\$17.60	\$11.73	\$23.46	\$14.66	\$29.33	Q	\$3,009	2020	\$2,000	2018		
Amelia County	239	119	\$27.50		\$33.00		\$38.50		M	\$5,751	2020	COST+100%	2007	\$4,000	2013
Amherst County Service Authority	954	251	\$34.34		\$44.98		\$55.54		B	\$10,617	2020	\$1,500	2020	\$4,500	2020
Amherst, Town of	680	142	\$47.90	\$95.80	\$54.75	\$109.50	\$61.60	\$123.20	M	\$15,265	2019	\$2,200			
Appalachia, Town of			\$41.11	\$57.11	\$48.88	\$69.26	\$56.64	\$81.41	M	\$8,163	2019	\$1,250	2019		
Appomattox, Town of	754	188	\$47.27		\$67.04		\$84.81		M	\$17,766	2020	\$2,200	2013	\$3,000	2019
Arlington County	34,546	1,644	\$27.87		\$37.16		\$46.45		Q	\$9,290	2020			\$115/DFU	2013
Augusta County Service Authority	8,594	761	\$41.43		\$51.35		\$61.27		B	\$10,214	2020	\$1,250		\$4,900	
Bedford Regional Water Authority	4,800	679	\$43.00	\$45.50	\$49.50	\$53.00	\$56.00	\$60.50	M	\$6,448	2019	\$1,500		\$5,000	2018
Berryville, Town of	1,466	207	\$69.31		\$86.58		\$103.85		M		2020				
Big Stone Gap, Town of	2,327	258	\$32.09	\$51.04	\$37.95	\$60.39	\$43.81	\$69.74	M		2018	\$400			
Blacksburg, Town of	9,040	126	\$21.02	\$36.80	\$27.04	\$47.34	\$33.06	\$57.88	M	\$6,023	2019	\$1,013	2019	\$2,500	2019
Blackstone, Town of			\$24.97	\$37.46	\$31.06	\$46.59	\$37.15	\$55.73	M	\$6,097	2019				
Boones Mill, Town of			\$58.00	\$78.00	\$64.00	\$84.00	\$70.00	\$90.00	M	\$6,020	2018	\$4,000			
Bowling Green, Town of	604	96	\$45.46	\$51.38	\$49.85	\$56.34	\$54.24	\$61.30	B	\$6,411	2020	\$750	2005	\$6,000	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.)	Billing Frequency	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
Boydton, Town of			\$26.90	\$36.90	\$31.90	\$46.90	\$36.90	\$56.90	M						
Bridgewater, Town of	2,080	172	\$30.38		\$37.93		\$45.48		M	\$8,867	2020	\$7,402	2020		
Bristol Virginia Utilities Authority	6,703	966	\$25.36	\$38.04	\$29.10	\$43.65	\$32.84	\$49.26	M	\$3,995	2019	\$2,250			
Broadway, Town of	1,488	95	\$13.82		\$17.64		\$21.46		B		2018	\$4,600	2018		
Brodnax, Town of	148	10	\$29.11	\$40.66	\$38.81	\$54.21	\$48.51	\$67.76	M						
Brookneal, Town of			\$17.16		\$19.82		\$22.48		M						
Buchanan, Town of	411	68	\$36.75	\$55.13	\$36.75	\$55.13	\$40.05	\$55.43	M	\$1,350	2020	\$2,500	2010		
Buckingham County	178	42	\$42.08		\$42.08		\$56.09		M	\$13,996	2020	\$2,500	1994		
Buena Vista, City of	2,535	167	\$25.62		\$34.16		\$42.70		M	\$8,540	2020	\$2,000	2019		
Campbell County Utility & Service Auth.	3,264	303	\$25.82		\$32.41		\$39.03		B	\$6,610	2012	\$1,900	2010	\$2,200	2010
Cape Charles, Town of	1,160	110	\$66.11		\$70.22		\$74.33		M		2019	\$875	2012	\$6,600	2012
Caroline County	993	114	\$52.12		\$61.67		\$71.52		M	\$10,588	2018	MIN-\$1,000	2018	\$6,000	2018
Carroll County PSA	891	210	\$42.00		\$52.00		\$62.00		M	\$7,589	2019	\$1,250			
Chatham, Town of	428	123	\$19.17	\$35.70	\$25.56	\$47.60	\$31.95	\$59.50	Q	\$6,390	2018	\$1,000	2018		
Chesterfield County	115,566	3,791	\$25.71		\$28.72		\$31.73		B	\$3,364	2019		2018	\$5,400	2018
Chilhowie, Town of	1,040	121	\$25.57	\$56.38	\$30.68	\$67.68	\$35.79	\$78.98	M	\$6,653	2021	\$900	2016		
Christiansburg, Town of	9,222	386	\$30.50	\$45.75	\$40.75	\$61.13	\$51.00	\$76.50	M	\$10,250	2019	\$3,000	2015		
Clarke County Sanitary Authority	343	26	\$58.50		\$58.50		\$65.96		B	\$14,924	2019			\$16,200	2006
Clarksville, Town of			\$46.00	\$104.00	\$52.89	\$114.56	\$59.78	\$125.12	B	\$6,915					
Coeburn, Town of	995	130	\$33.46	\$55.53	\$41.18	\$68.85	\$48.91	\$82.17	M		2015	COST+\$50			
Craig-New Castle Public Service Authority	347	67	\$38.40		\$44.65		\$50.90		M	\$6,600	2020	\$2,000	2005		
Craigsville, Town of			\$34.00		\$34.00		\$34.00		M	\$6,999		\$3,000			
Culpeper, Town of	6,602	653	\$24.15		\$32.20		\$40.25		M	\$7,273	2019	COST	2019	\$10,000	2006
Danville, City of	16,250	2,300	\$18.37		\$21.46		\$24.80		M	\$3,535	2019	\$1,700	2019		
Dinwiddie County Water Authority	3,450	140	\$20.82		\$26.82		\$32.82		M	\$5,805	2017	\$3,910	2015		
Dublin, Town of	1,162	127	\$21.51	\$26.02	\$28.02	\$33.82	\$34.53	\$41.62	M	\$6,168	2020	\$1,500	2020		
Dungannon, Town of	203	5	\$29.25	\$35.25	\$39.00	\$47.00	\$48.75	\$58.75	M		2012	\$88	2012		
Edinburg, Town of	584	42	\$35.00	\$52.50	\$79.00		\$90.00	\$107.50	M	\$6,067	2019	\$10,000			
Elkton, Town of			\$33.60		\$41.37		\$49.14		M		2020	\$7,500			
Farmville, Town of	3,173	641	\$20.17	\$30.26	\$24.58	\$36.88	\$29.00	\$43.51	M	\$6,288	2018	\$1,000	2020		
Fauquier County Water and Sanitation Authority	5,057	277	\$58.21		\$67.83		\$77.45		M	\$10,501	2019	\$14,000	2016		
Ferrum Water & Sewer Authority	148	30	\$31.50		\$39.00		\$46.50		M	\$7,620	2017	COST+500	2017	\$2,500	2017
Fincastle, Town of	175	30	\$39.19		\$45.88		\$52.57		M		2020	\$2,000	2012	\$2,500	2012
Franklin, City of	3,220	252	\$32.30	\$36.95	\$36.73	\$45.62	\$41.16	\$51.29	M	\$4,449	2016	\$4,000			

 <b>Wastewater Data<sup>4</sup></b>	# 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.)	Billing Frequency	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
Frederick Water	15,764	629	\$38.22	\$38.22	\$43.39	\$43.39	\$48.56	\$48.56	B	\$8,649	2019	\$3,076	2019		
Galax, City of	3,200	500	\$16.00	\$32.00	\$20.50	\$41.00	\$25.00	\$50.00	B	\$4,503	2020				
Gate City, Town of	803	131	\$38.25		\$47.65		\$57.05		M	\$10,958	2018	\$900	2014		
Glasgow, Town of	520	12	\$32.08	\$41.00	\$33.38	\$44.30	\$34.68	\$47.60	M	\$2,327	2019	\$2,500	2019		
Gloucester, County of	2,280	690	\$39.59		\$52.36		\$64.95		M	\$11,206	2013	\$5,205	2008	\$1,200	2008
Goochland, County of	1,235	190	\$39.98		\$47.26		\$54.54		B	\$14,207	2019	\$3,300	2019		
Greensville County WSA	1,553	93	\$34.49		\$34.49		\$41.39		M	\$8,008	2020	\$1,320			
Halifax County Service Authority	4,040	425	\$36.10		\$41.80		\$47.50		B	\$5,355	2019			\$1,500	2008
Hamilton, Town of	608	29	\$32.64	\$44.04	\$43.52	\$58.72	\$69.77	\$94.16	B		2019	\$5,000	2010		
Hanover County	19,751	1,685	\$30.70		\$38.25		\$45.80		B	\$5,690	2019			\$6,456	2019
Harrisonburg, City of	17,351	2,554	\$17.31	\$25.74	\$23.08	\$34.32	\$28.85	\$42.90	M	\$5,620	2019	\$4,500	2010		
Henrico, County of	92,035	5,173	\$31.02		\$34.83		\$40.54		B	\$5,253	2019	\$3,150	2018	\$5,605	2018
Henry Co. Public Service Authority	6,898	7,131	\$30.00		\$30.00		\$34.70		M	\$7,017	2013	\$1,750	2013		
Hopewell Regional Wastewater Treatment Facility	7,982	569	\$16.18		\$19.98		\$23.78		M	\$3,166	2017	\$2,026	2018		
Isle of Wight County	3,357	86	\$44.50		\$59.33		\$74.17		B		2020	\$3,700			
James City Service Authority	23,558	1,305	\$34.85		\$45.80		\$56.75		M	\$11,000	2019	\$3,583	2020	\$1,818	2020
Kenbridge, Town of	417	144	\$52.28	\$75.53	\$60.37	\$86.70	\$68.48	\$97.87	M		2012	\$500			
Kilmarnock, Town of	774	249	\$25.50	\$35.62	\$32.13	\$44.99	\$38.76	\$54.36	B	\$13,272	2019	\$8,040	2006		
King George County Service Authority	1,985	170	\$67.94		\$80.04		\$92.14		B	\$12,147	2020	\$11,183	2013		
King William County	493	53	\$41.46		\$55.28		\$69.10		B	\$13,820	2018	\$8,000	2015		
Leesburg, Town of	16,691	1,156	\$29.56	\$40.27	\$36.43	\$50.71	\$43.30	\$61.15	Q	\$2,537	2020	\$80		\$7,292	
Lexington, City of	2,500	550	\$44.75	\$60.43	\$59.67	\$80.58	\$74.59	\$100.73	M	\$31,776	2020	\$1,809	2020	\$427	2020
Loudoun Water	77,662	4,725	\$58.20		\$73.62		\$89.04		Q	\$15,679	2020	\$80		\$8,540	2020
Louisa Co. Water Authority Northeast Creek	38	48	\$35.48		\$35.48		\$44.35		M	\$8,870	2019	\$5,250	2004		
Louisa Co. Water Authority Zion Crossroads	664	49	\$35.48		\$35.48		\$44.35		M	\$8,870	2019	\$5,250	2004		
Louisa, Town of	739	154	\$34.34	\$50.36	\$34.34	\$50.36	\$41.53	\$58.99	M	\$7,720	2019	\$7,720			
Luray, Town of	2,131	73	\$48.33	\$72.49	\$55.58	\$83.37	\$62.83	\$94.24	M	\$7,838	2020	\$5,940	2010	\$1,200	2010
Lynchburg, City of	19,000	2,000	\$29.14		\$37.35		\$45.56		M	\$8,290	2020	\$1,330	2017	\$1,950	2000
Manassas, City of	13,730	1,042	\$36.45		\$45.80		\$55.15		M	\$10,359	2020				
Marion, Town of	2,705	345	\$21.68	\$43.29	\$29.85	\$59.58	\$38.02	\$75.87	M	\$8,167	2019	\$900	2016		
Martinsville, City of	7,000	500	\$23.64		\$23.64		\$26.37		M	\$2,743	2016	\$850	2014		
Mineral, Town of	112	34	\$35.40		\$44.25		\$53.10		M	\$8,859	2013	\$8,000	2007		
Mount Jackson, Town of	700	96	\$37.95	\$56.94	\$50.60	\$75.92	\$63.25	\$94.90	M	\$12,650	2019	\$10,000	2019		
Nelson County	179	18	\$38.60		\$38.60		\$45.45		M		2013	\$2,000	2013		



## 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.)	Billing Frequency	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
Nelson County Service Authority	2,447	100	\$54.10		\$54.10		\$64.00		M		2019	\$4,000			
New Kent County	1,718	150	\$33.41		\$43.42		\$53.43		B	\$12,254	2020	\$9,275	2012	\$2,500	2012
Norton, City of	1,551	388	\$42.44	\$78.90	\$53.20	\$103.50	\$63.96	\$128.10	M	\$10,773	2019	\$175			
Onancock, Town of	630	1	\$67.59		\$90.41		\$112.90		B	\$18,730	2020	\$1,200			
Pembroke, Town of	640		\$26.20	\$32.50	\$30.10	\$37.00	\$34.00	\$41.50	M		2016	\$1,250	2010		
Powhatan County	123	110	\$33.46		\$40.07		\$46.68		B	\$6,951	2019	\$8,100			
Pulaski County Sewerage Authority	845	100	\$27.75		\$29.00		\$30.25		M	\$4,425	2019	\$500	2010		
Purcellville, Town of	2,657	332	\$55.35	\$103.20	\$71.30	\$135.10	\$87.25	\$167.00	B	\$16,137	2019			\$21,600	2019
Radford, City of	5,385	1	\$18.36		\$24.48		\$30.60		M		2014	\$1,500	2014		
Rapidan Service Authority	6,474	350	\$37.10		\$46.78		\$56.46		M	\$9,707	2020	\$10,000			
Rappahannock County Water & Sewer Authority	187	43	\$50.00		\$50.00		\$50.00		Q	\$50	2018	\$7,500	2009		
Richlands, Town of	2,178	255	\$20.50	\$26.50	\$25.00	\$32.50	\$29.50	\$38.50	M	\$6,009	2018	\$300	1986		
Rockbridge County PSA (Rivermont and Riveria)	1,411	288	\$46.69		\$56.44		\$66.19		B	\$9,942	2019	\$850	2007	\$4,500	2007
Rockingham County	3,664	225	\$16.30		\$21.45		\$26.60		M	\$5,151	2017	\$5,925	2017		
Rocky Mount, Town of	1,752	330	\$17.85	\$35.70	\$21.32	\$42.64	\$24.79	\$49.58	M	\$3,328	2019	\$1,000	2016		
Rural Retreat, Town of			\$24.15		\$28.95		\$33.75		M	\$6,458	2017	\$400			
Saint Paul, Town of	326	78	\$26.66	\$45.85	\$33.97	\$57.35	\$41.29	\$68.84	M	\$7,320	2018	\$350			
Salem, City of	7,703	1,286	\$38.87		\$44.26		\$49.65		M	\$5,435	2015	\$2,100	2016	\$1,000	2016
Scott County Public Service Authority	1,201	70	\$44.00		\$57.33		\$70.66		M	\$13,393	2020	\$2,000	2015		
Shenandoah, Town of	910	76	\$25.65	\$38.50	\$30.15	\$46.00	\$34.65	\$53.50	M	\$4,513	2020	\$7,000	2020		
Smithfield, Town of	3,176	470	\$43.65	\$46.35	\$55.09	\$58.69	\$66.53	\$71.03	B	\$11,454	2019	\$1,580	1999	\$4,120	2007
South Hill, Town of	1,935	447	\$23.64	\$47.28	\$31.15	\$62.30	\$38.12	\$76.23	M	\$5,049	2020	\$1,500	1991		
Southampton County	1,326	79	\$36.00		\$36.00		\$44.00		M		2017	\$1,800	2009	\$6,000	2009
Spotsylvania County	29,418	1,761	\$20.27		\$25.99		\$31.71		M	\$6,287	2019	\$2,220	2008	\$4,920	2008
Stafford County	35,211	1,253	\$35.20		\$41.56		\$47.92		M	\$6,697	2019	\$2,100	2005	\$3,500	2010
Stanley, Town of	1,417	70	\$29.40	\$31.00	\$30.70	\$33.50	\$32.00	\$36.00	M		2013	\$4,625	2017		
Staunton, City of	8,276	1,138	\$19.52	\$29.28	\$24.40	\$36.60	\$31.72	\$47.58	B	\$6,539	2012	\$3,100	2020	\$6,850	2016
Stoney Creek Sanitary District	1,385	45	\$51.00		\$56.00		\$61.00		B	\$6,527	2013	\$6,000	2010		
Stuart, Town of	364	100	\$24.16	\$27.69	\$29.74	\$33.99	\$35.32	\$40.29	M		2020	\$600			
Tazewell, Town of	1,609	203	\$39.35	\$57.50	\$49.20	\$71.00	\$59.05	\$84.50	M		2020	\$540			
Toms Brook-Maurertown Sanitary District	615	30	\$29.50		\$36.00		\$42.50		M	\$11,955	2013	\$6,000	2010		
Victoria, Town of	850	15	\$18.50		\$25.04		\$31.58		M	\$6,503	2020	\$25			
Vienna, Town of	6,971	325	\$23.85		\$34.40		\$43.00		Q	\$9,950	2020	\$8,340	2020	\$7,625	2020
Virginia Beach Public Utilities	128,208	5,811	\$54.31		\$62.14		\$69.98		M	\$8,220	2014	MIN \$7,450	2014	\$1,545	2014

 <b>Wastewater Data<sup>4</sup></b>	# 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.)	Billing Frequency	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
Warrenton, Town of	3,851	596	\$21.95	\$32.90	\$31.62	\$47.41	\$41.30	\$61.92	M	\$10,047	2020	COST+\$8,000	2020	\$10,800	2016
Waynesboro, City of	7,515	778	\$40.62	\$44.68	\$43.93	\$48.32	\$58.20	\$64.02	B	\$8,943	2019	MIN \$800	1999	\$4,250	1999
Western Virginia Water Authority (Botetourt Co.)	2,808	308	\$27.75		\$31.50		\$35.25		M	\$4,195	2020	\$2,000		\$3,000	
Western Virginia Water Authority (Franklin Co.)	49	48	\$29.10		\$33.30		\$37.50		M	\$4,695	2020	\$2,000		\$3,000	
Western Virginia Water Authority (Roanoke City/County)	48,754	4,265	\$27.75		\$31.50		\$35.25		M	\$4,195	2020	\$2,000		\$3,000	
Westmoreland County	2,801	298	\$37.00	\$40.00	\$37.00	\$40.00	\$37.00	\$40.00	B		2018	\$10,022	2018	\$1,539	2018
Winchester, City of	10,608		\$40.41		\$53.88		\$67.35		B	\$13,470	2020	\$7,200	2017		
Wise, Town of	1,984	194	\$36.66	\$53.31	\$44.81	\$65.16	\$52.96	\$77.01	M	\$8,162	2019	\$500	2000		
Wythe County	586	94	\$22.00		\$28.90		\$35.80			\$8,870	2015	\$1,000	2009	\$500 / EDU	
Wytheville, Town of	3,878	688	\$18.43	\$36.86	\$24.56	\$49.12	\$30.69	\$61.38	M	\$6,452	2019	\$1,500			

<sup>4</sup>Participants provided wastewater treatment services by the Hampton Roads Sanitation District (HRSD): Gloucester County, Isle of Wight County, James City Service Authority, Town of Smithfield, and the City of Virginia Beach included the HRSD wastewater 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.



# Draper Aden Associates

*Engineering • Surveying • Environmental Services*

*Lasting Positive Impact®*

1030 Wilmer Avenue  
Suite 100  
Richmond, VA 23227

