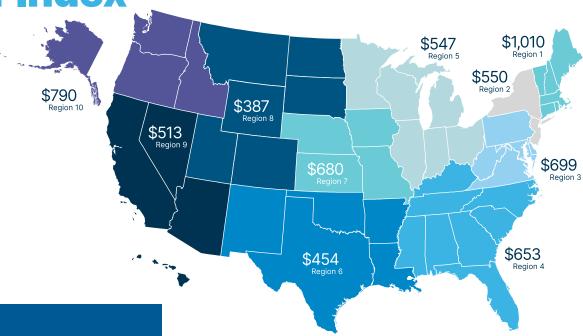
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**Cost of Clean Water Index** 





## 99 Million

POPULATION SERVED

164

**UTILITY RESPONDENTS** 

\$588

AVERAGE NATIONAL ANNUAL SEWER SERVICE CHARGE

3.2%

INCREASE IN SEWER CHARGES 2022-2023

4.1%

INCREASE IN CONSUMER PRICE INDEX 2022-2023

## Regional Average Annual Charges, 2023

All Respondents

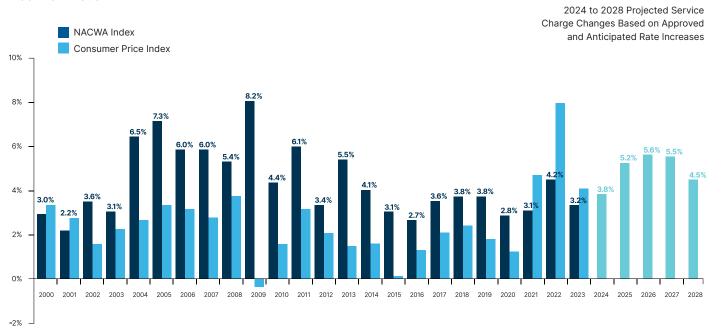
# **Average Charge for Wastewater Services Increased 3.2% in 2023**

NACWA's Cost of Clean Index for the 2023 calendar year indicates that the average cost of wastewater services rose 3.2 percent. The average increase was 0.9 percentage points below the rate of inflation as measured by the Consumer Price Index (CPI) (see Annual Change in Cost of Clean Water Index vs. Inflation). This marks the third straight year where national charges for wastewater collection and treatment services were outpaced by inflation.

In 2023, the national average amount that a single-family residence paid for wastewater services was \$588. Wastewater service charges vary widely among EPA regions and states, and are affected by demographics, geography, system age, regulatory requirements, and a range of other issues. To illustrate these variations, the *Regional Average Annual Charge* map shows a breakdown of average charges by EPA region. The average service charge by Region varies from a low of \$387 in EPA Region 8 to a high of \$1,010 in EPA Region 1.

### **Annual Change in Cost of Clean Water**

Index vs. Inflation



The Annual Change in Cost of Clean Water Index vs. Inflation chart presents a national snapshot of the increase in service charges, as compared to inflation, since 2000. Table A-1 provides additional detail, including a breakdown of NACWA Index values and service charges back to 1985, the base year for the Index. The values for 2023 are based on the responses from 164 NACWA members serving over 99 million people.

Customers pay for sewer services in a variety of ways. Charges may be based on property values, gallons of water used, on a flat rate, or include some combination of these values. Due to this variability, the *NACWA Index* uses what the average single-family residence pays annually because it is a more consistent measure to track the cost of services over time. In 2023, the majority of clean water utilities implemented rate structures that resulted in increases in the average annual household service charge. However, in some communities, volume-based rates increased, but average service charges dropped due to reductions in actual or estimated residential water use or decreased revenues. Additional national and regional data are included in Tables A-1 and A-3.

# **Average Annual Service Charge Still Hovering at Approximately 2.0% of Poverty Threshold**

The Average Annual Service Charge chart presents a national snapshot of wastewater service charges since 2000 and provides a projection of average charges through 2028. In comparison to the Consumer Price Index (CPI), the annual sewer service charge has increased at double the rate of the CPI since 2000 and has nearly doubled in value since 2006. The average annual sewer charge of \$588 represents nearly 2 percent (1.96 percent) of the 2023 Federal poverty income threshold (\$30,000) for a family of four (which jumped \$2,250 from 2022).

#### **Average Annual Service Charge**

2000 - 2023 & Projected

2024 to 2028 Projected Service Charge Changes Based on Approved and Anticipated Rate Increases



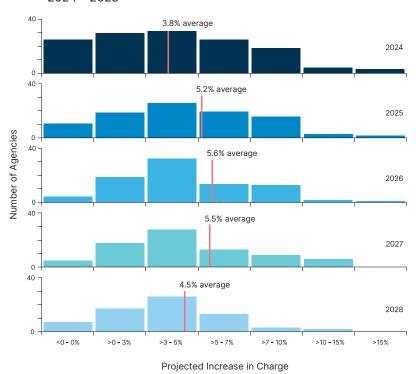
# Half of Utility Respondents to Increase Rates by 20% or More by 2028

Infrastructure needs, as well as inflationary and regulatory cost pressures, are leading to a higher prevalence of approved and planned rate increases nationwide. Eighty percent (80%) of agencies indicated that approved or planned rate increases will be implemented in 2024 and 2025.

From 2024-2028, rates for wastewater services are expected to rise from 4 to 5 percent per year with a median cumulative five-year increase of 20 percent (see *Projected Increases in Charges* chart which shows the distribution of projected increases in charges among agency respondents over the next five years). The top reasons cited for large projected rate increases include capital needs to address aging infrastructure, meeting increased regulatory requirements due to consent decrees, sewer overflows, nutrient control, and increasing O&M costs, including labor, construction, supplies and materials due to inflation.

### **Projected Increases in Charges**

2024 - 2028



Disclaimers: The NACWA Index strives to use the best available data each year when determining current and historical household charges and trends. These data are intended for comparison purposes only, and are subject to change from one year to the next. While this document presents the most up-to-date data available, if better data become available in the future, the data presented here may be modified.

Additional data and information on the NACWA Index and past years' surveys are available on NACWA's website.

Table A-1: NACWA Service Charge Index, 1985 to 2023

Year	NACWA Index <sup>(1)</sup>	Change from Previous Year	Average Service Charge (\$)	Change from Previous Year (\$)	Change to Consumer Price Index	Total Responses	Population represented (in millions)	Total Responses in Both Previous and Current Year
1985	100.0		\$102.75			155	88.6	
1986	106.8	6.8%	\$109.69	\$6.95	1.9%	158	88.8	155
1987	112.4	5.3%	\$115.51	\$5.82	3.6%	157	88.8	157
1988	119.9	6.9%	\$123.17	\$7.99	4.1%	163	91.3	157
1989	130.1	8.4%	\$133.65	\$10.35	4.8%	166	92.0	163
1990	141.0	8.4%	\$144.84	\$11.25	5.4%	169	92.3	166
1991	153.7	8.9%	\$157.88	\$12.84	4.2%	171	92.5	169
1992	166.7	8.5%	\$171.33	\$13.84	3.0%	175	94.7	171
1993	183.1	8.3%	\$188.12	\$13.78	3.0%	184	100.5	170
1994	193.4	5.1%	\$198.68	\$10.32	2.6%	194	102.4	182
1995	197.8	2.2%	\$203.22	\$4.23	2.8%	199	99.6	189
1996	201.7	3.6%	\$207.28	\$6.44	3.0%	205	105.8	195
1997	203.9	1.3%	\$209.49	\$2.88	2.3%	208	107.9	202
1998	207.8	2.4%	\$213.52	\$4.89	1.6%	214	106.6	204
1999	209.8	0.7%	\$215.61	\$1.90	2.2%	224	109.4	210
2000	216.4	3.0%	\$222.31	\$6.41	3.4%	234	113.7	218
2001	223.5	2.2%	\$229.63	\$4.47	2.8%	238	113.5	227
2002	232.6	3.6%	\$238.99	\$8.45	1.6%	220	107.8	215
2003	243.0	3.1%	\$249.71	\$7.69	2.3%	232	108.4	198
2004	254.8	6.5%	\$261.79	\$16.10	2.7%	222	109.0	200
2005	276.3	7.3%	\$283.91	\$18.79	3.4%	213	108.7	188
2006	287.1	6.0%	\$295.03	\$17.23	3.2%	203	107.0	177
2007	299.4	6.0%	\$307.60	\$16.47	2.8%	196	104.6	173
2008	315.4	5.4%	\$324.11	\$18.00	3.8%	191	107.6	165
2009	347.3	8.2%	\$356.90	\$26.41	-0.4%	171	103.4	161
2010	371.2	4.4%	\$381.45	\$16.82	1.6%	181	100.7	143
2011	387.7	6.1%	\$398.57	\$23.78	3.2%	176	104.0	158
2012	401.6	3.3%	\$412.17	\$13.97	2.1%	179	108.1	148
2013	424.3	5.5%	\$435.26	\$22.53	1.5%	183	107.8	155
2014	436.0	4.1%	\$447.99	\$17.45	1.6%	184	112.8	164
2015	439.8	3.1%	\$451.93	\$13.53	0.1%	176	110.6	160
2016	466.3	2.7%	\$479.07	\$11.85	1.3%	173	104.4	156
2017	487.8	3.6%	\$501.21	\$11.49	2.1%	180	105.4	144
2018	489.5	3.8%	\$503.01	\$19.77	2.4%	178	109.6	154
2019	498.3	3.8%	\$512.01	\$6.30	1.8%	178	110.3	149
2020	512.3	2.8%	\$526.44	\$14.57	1.2%	175	104.4	154
2021	536.1	3.1%	\$550.81	\$15.73	4.7%	171	105.5	144
2022	551.9	4.2%	\$567.12	\$23.57	8.0%	173	104.9	143
2023	572.0	3.2%	\$587.59	\$19.70	4.1%	164	99.0	140

**Note 1:** The value of the Service Charge Index is based on all responses received. The base year, 1985, has been indexed to a value of 100 at the national level.

**Note 2:** The annual percent change in the Index is based on the responses of those agencies that responded in both the previous year and current year using the same calculation method.

Table A-2: Projected Annual Service Charge Increases, 2024-2028

	2024	2025	2026	2027	2028
Average Annual Increase (%)	3.8%	5.2%	5.6%	5.5%	4.5%
Average Service Charge (Projected \$)	610.79	647.59	689.40	733.88	771.50
Change from Previous Year (\$)	23.21	36.79	41.82	44.48	37.62
# of Total Responses	156	153	151	149	148
# of Responses with Numeric Estimates	136	97	86	79	68
Approved	57%	24%	17%	12%	9%
Planned	23%	56%	56%	59%	56%
No Change	13%	7%	3%	2%	3%
Uncertain	6%	13%	25%	27%	32%

Table A-3: Regional Annual Average Sewer Service Charges, 2023 Summary

	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10	National	
# of Agencies	9	10	18	23	31	10	13	14	22	14	164	
Population	3.5	13.1	11.1	10.0	19.7	9.3	4.3	3.9	19.3	4.8	99.0	
2023 Charge												
Average	\$1,010.27	\$550.08	\$699.36	\$653.42	\$547.00	\$454.38	\$679.57	\$387.48	\$513.09	\$790.06	\$587.59	
Median	\$600.00	\$492.64	\$539.10	\$519.00	\$468.40	\$454.50	\$482.28	\$381.55	\$507.50	\$643.75	\$504.39	
Minimum	\$396.00	\$209.32	\$238.68	\$256.50	\$234.54	\$308.52	\$56.77	\$209.00	\$246.44	\$480.48	\$56.77	
Maximum	\$1,210.20	\$678.40	\$1,094.02	\$1,173.52	\$759.28	\$914.40	\$898.20	\$609.12	\$1,325.04	\$909.72	\$1,325.04	
% Change <sup>(3)</sup>												
1-year (2022-23)	3.0%	4.1%	2.2%	6.9%	1.8%	-0.7%	4.4%	19.3%	1.6%	3.9%	4.4%	
3-year (2020-23)	11.9%	9.9%	11.7%	13.7%	9.4%	7.0%	16.1%	29.7%	7.5%	15.0%	12.1%	
5-year (2018-23)	17.5%	8.6%	25.5%	17.8%	18.1%	6.5%	23.6%	44.9%	12.1%	28.8%	21.2%	

**Note 3:** The percent change values in Table A-3 are based on the responses of those agencies that responded in both the previous year and current year using the same calculation method.

Table R-1 Service Charge Index by EPA Region (1987-2023)

Table It I Service											
Year	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10	National
1987	98.0	100.3	139.1	152.7	136.5	142.4	70.7	102.1	73.4	129.4	112.4
1988	106.2	110.1	142.8	148.1	139.5	155.2	72.2	108.8	85.2	139.0	119.9
1989	143.0	127.2	151.5	155.6	140.3	163.6	74.2	105.6	100.4	150.5	130.1
1990	166.7	147.0	154.3	163.4	145.3	176.0	73.6	115.3	114.8	158.6	141.0
1991	194.4	166.8	185.5	171.1	149.9	168.7	82.3	120.4	131.8	173.7	153.7
1992	218.5	195.3	187.1	178.4	158.0	171.0	92.8	125.8	147.6	193.0	166.7
1993	304.2	196.7	208.7	189.6	166.6	187.4	132.1	137.9	162.4	200.7	183.1
1994	306.0	222.5	213.5	203.8	173.3	191.7	141.6	136.2	173.2	224.9	193.4
1995	303.3	215.2	213.3	215.5	178.9	206.9	142.3	145.9	175.9	245.6	197.8
1996	320.6	206.4	222.6	224.2	180.4	212.1	144.9	143.9	183.2	258.7	201.7
1997	310.2	208.1	222.9	235.3	176.8	211.0	153.5	143.6	187.2	265.2	203.9
1998	314.7	214.6	228.7	234.1	177.8	208.6	160.5	145.3	196.6	272.7	207.8
1999	316.1	222.4	230.1	241.1	182.9	207.0	163.1	150.6	191.5	277.5	209.8
2000	312.6	222.1	237.2	251.5	186.7	212.3	163.9	151.2	202.0	297.5	216.4
2001	310.2	249.0	243.5	257.2	190.0	212.8	170.3	155.4	206.7	305.9	223.5
2002	316.9	268.7	242.9	261.6	201.8	219.6	175.3	154.2	215.1	338.9	232.6
2003	337.6	279.0	237.6	303.0	214.2	222.5	166.9	148.4	214.1	365.1	242.8
2004	364.5	280.9	275.4	292.0	212.7	257.9	179.7	171.2	230.3	376.7	254.8
2005	423.1	313.1	299.2	323.4	227.8	259.0	199.7	167.4	242.3	413.1	276.3
2006	438.3	328.7	319.8	308.8	250.5	278.8	231.0	169.5	260.6	352.9	287.1
2007	507.6	341.8	343.0	337.0	254.4	251.8	229.3	175.1	271.9	371.6	299.4
2008	558.8	365.1	357.3	317.6	270.5	265.3	240.7	175.5	304.5	396.5	315.5
2009	593.5	380.6	389.8	342.3	329.5	283.4	271.9	185.1	338.7	403.7	347.3
2010	587.2	386.5	398.8	386.7	353.4	281.6	268.3	194.0	411.8	403.1	371.2
2011	676.2	425.7	422.4	425.0	369.0	307.4	312.8	212.9	377.1	435.0	387.7
2012	680.2	424.3	450.2	469.4	376.7	325.4	347.7	213.4	377.1	459.3	401.6
2013	681.1	447.9	480.5	477.6	396.6	357.1	384.5	219.0	389.9	488.8	424.3
2014	703.0	468.9	474.1	454.8	425.6	361.7	427.6	226.1	408.1	497.7	436.0
2015	791.0	482.8	483.6	460.0	416.9	361.7	463.3	244.9	404.3	519.1	439.8
2016	837.1	496.7	532.6	568.7	390.1	366.7	488.5	252.3	423.9	538.8	466.3
2017	860.8	498.5	556.5	581.9	446.2	407.7	517.1	254.8	432.3	578.1	487.8
2018	891.3	515.1	538.7	566.3	421.9	449.0	533.0	281.7	433.3	602.9	489.5
2019	885.7	468.2	566.1	582.6	464.7	398.1	580.3	298.0	456.1	556.3	498.3
2020	878.5	471.8	580.0	553.8	484.3	429.1	589.2	301.6	492.0	578.0	512.3
2021	959.6	500.2	656.8	573.6	503.7	434.4	621.5	307.3	469.2	712.0	536.1
2022	973.6	503.5	646.2	591.5	519.9	439.1	655.9	325.5	502.9	750.4	551.9
2023	983.2	535.4	680.6	635.9	532.4	442.2	661.4	377.1	499.4	768.9	572.0
# of Responses	9	10	18	23	31	10	13	14	22	14	164
Population	3.5	13.1	11.1	10.0	19.7	9.3	4.3	3.9	19.3	4.8	99.0

Note 1: The value of the Service Charge Index is based on all responses received. The base year, 1985 has been indexed to a value of 100 at the national level.

Table R-2 Service Charge Index Change vs. Inflation Rate by EPA Region (1988-2023)

Year	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10	National	CPI
1988	8.9%	9.8%	2.8%	3.3%	2.2%	8.8%	2.1%	6.5%	15.7%	7.4%	6.9%	4.1%
1989	34.7%	15.6%	6.1%	5.1%	0.6%	5.4%	2.7%	-3.0%	17.1%	8.2%	8.4%	4.8%
1990	20.0%	15.6%	1.9%	5.0%	3.5%	7.6%	-0.8%	9.3%	14.1%	5.4%	8.4%	5.4%
1991	16.6%	13.4%	20.3%	3.7%	3.2%	-4.2%	11.8%	4.4%	14.8%	9.5%	8.9%	4.2%
1992	12.4%	16.9%	2.0%	4.3%	5.4%	1.0%	12.8%	4.4%	11.9%	11.1%	8.5%	3.0%
1993	34.9%	1.4%	1.4%	6.9%	6.1%	9.9%	42.3%	6.9%	10.1%	3.3%	8.3%	3.0%
1994	4.0%	5.0%	2.2%	8.8%	4.0%	2.3%	10.3%	2.8%	6.6%	12.4%	5.1%	2.6%
1995	0.6%	0.9%	-1.3%	4.6%	1.1%	7.9%	-2.8%	6.1%	1.4%	9.2%	2.2%	2.8%
1996	1.8%	4.4%	4.4%	4.0%	2.1%	2.0%	1.8%	0.1%	4.2%	5.3%	3.6%	3.0%
1997	0.4%	1.2%	0.1%	6.0%	-1.8%	-0.6%	6.0%	-0.3%	2.2%	2.5%	1.3%	2.3%
1998	1.6%	3.0%	1.7%	1.6%	0.8%	-1.1%	4.6%	0.5%	5.0%	2.9%	2.4%	1.6%
1999	0.4%	1.5%	0.7%	2.8%	2.4%	-0.6%	2.5%	3.6%	-2.3%	1.9%	0.7%	2.2%
2000	0.1%	1.8%	-0.1%	3.4%	2.3%	2.6%	-2.9%	0.4%	6.0%	7.2%	3.0%	3.4%
2001	1.5%	2.3%	2.6%	3.2%	1.4%	0.5%	3.9%	2.1%	2.1%	2.8%	2.2%	2.8%
2002	1.9%	5.1%	-0.2%	1.9%	6.3%	1.6%	3.2%	-0.8%	3.9%	10.2%	3.6%	1.6%
2003	7.3%	5.3%	-0.7%	5.6%	6.2%	1.1%	1.7%	-3.7%	0.1%	4.7%	3.1%	2.3%
2004	11.8%	2.7%	16.6%	7.0%	-0.5%	14.5%	11.4%	2.9%	5.8%	5.8%	6.5%	2.7%
2005	17.4%	4.6%	6.3%	9.0%	10.6%	4.4%	11.3%	0.2%	4.6%	9.0%	7.3%	3.4%
2006	6.3%	8.0%	6.6%	3.3%	8.9%	7.2%	3.7%	1.3%	4.3%	4.6%	6.0%	3.2%
2007	10.9%	4.3%	6.7%	5.5%	3.0%	-7.5%	0.9%	3.6%	10.0%	5.6%	6.0%	2.8%
2008	5.5%	11.1%	1.7%	1.8%	3.5%	3.6%	11.3%	1.7%	6.4%	2.8%	5.4%	3.8%
2009	6.0%	6.1%	8.5%	5.5%	12.7%	7.2%	5.9%	4.0%	9.9%	3.9%	8.2%	-0.4%
2010	4.4%	2.2%	3.8%	10.7%	6.9%	0.7%	9.0%	-3.4%	4.5%	-2.4%	4.4%	1.6%
2011	5.2%	8.0%	6.3%	4.6%	5.3%	6.8%	9.8%	12.5%	4.0%	9.6%	6.0%	3.2%
2012	4.7%	1.8%	3.3%	2.6%	1.2%	4.3%	8.4%	0.1%	5.3%	4.8%	3.4%	2.1%
2013	4.8%	6.6%	8.7%	2.1%	5.0%	8.6%	10.0%	2.1%	3.8%	5.6%	5.5%	1.5%
2014	2.7%	5.0%	1.6%	5.0%	7.4%	-0.4%	7.1%	3.7%	3.8%	3.3%	4.1%	1.6%
2015	4.2%	2.2%	7.0%	0.7%	7.9%	3.0%	8.5%	8.4%	-0.8%	2.3%	3.1%	0.1%
2016	5.8%	1.2%	2.7%	3.3%	1.0%	2.4%	8.9%	3.0%	2.4%	3.9%	2.7%	1.3%
2017	2.4%	0.5%	4.1%	4.4%	3.9%	4.5%	8.8%	3.7%	3.5%	5.3%	3.6%	2.1%
2018	4.4%	3.0%	4.3%	2.1%	4.8%	10.8%	5.0%	4.2%	3.0%	3.3%	3.8%	2.4%
2019	2.7%	1.3%	4.6%	2.7%	2.5%	0.7%	5.4%	5.4%	2.5%	5.6%	3.8%	1.8%
2020	2.5%	0.8%	4.5%	1.5%	3.9%	4.4%	1.2%	4.2%	2.6%	3.7%	2.8%	1.2%
2021	3.2%	1.7%	4.3%	3.1%	4.6%	1.6%	6.5%	3.7%	1.3%	4.1%	3.1%	4.7%
2022	5.3%	3.6%	4.8%	3.7%	3.1%	7.1%	4.8%	3.5%	4.5%	4.3%	4.2%	8.0%
2023	3.0%	4.1%	2.2%	6.9%	1.8%	-0.7%	4.4%	19.3%	1.6%	3.9%	3.2%	4.1%

Note 2: The annual percent change in the Index (national and regional) is based on the responses of those agencies that responded in both the previous year and current year using the same calculation method.

### Regional Service Charge Index as a Percent of the National Average (1988-2023)

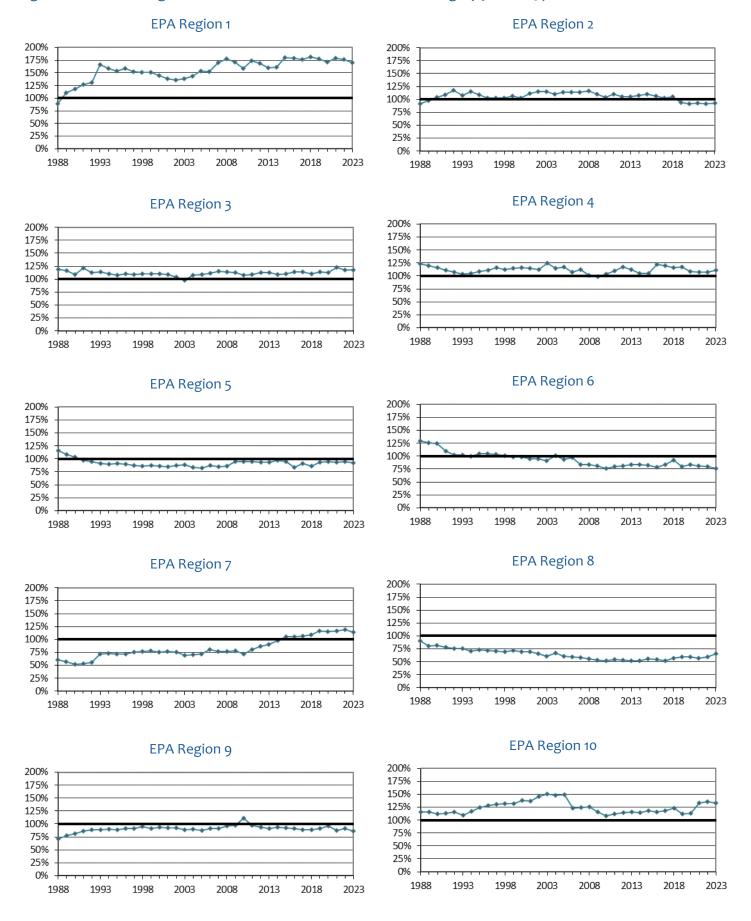
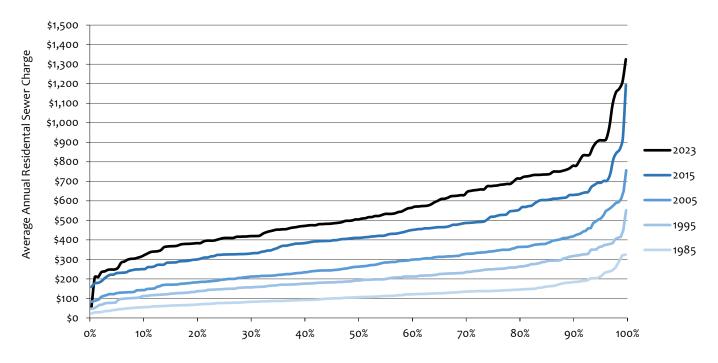


Table R-3 Average Annual Sewer Service Charge by EPA Region (1985-2023)

Year	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10	National
1985	\$71.74	\$87.74	\$124.46	\$142.85	\$141.32	\$108.90	\$65.12	\$104.57	\$64.87	\$118.54	\$102.75
1986	\$82.23	\$92.07	\$140.97	\$147.95	\$145.19	\$124.77	\$70.12	\$104.70	\$69.87	\$128.23	\$109.69
1987	\$100.65	\$103.02	\$142.94	\$156.86	\$140.29	\$146.30	\$72.68	\$104.95	\$75.39	\$132.98	\$115.51
1988	\$109.09	\$113.10	\$146.69	\$152.13	\$143.33	\$159.47	\$74.20	\$111.79	\$87.50	\$142.84	\$123.17
1989	\$146.94	\$130.73	\$155.64	\$159.89	\$144.18	\$168.07	\$76.20	\$108.46	\$103.14	\$154.60	\$133.65
1990	\$171 <b>.</b> 31	\$151.08	\$158.54	\$167.91	\$149.25	\$180.86	\$75.60	\$118 <b>.</b> 51	\$117.91	\$162.91	\$144.84
1991	\$199.77	\$171.40	\$190.65	\$175.78	\$154.06	\$173.30	\$84.55	\$123.73	\$135.38	\$178.43	\$157.88
1992	\$224.52	\$200.66	\$192.20	\$183.28	\$162.39	\$175.65	\$95.38	\$129.22	\$151.63	\$198.31	\$171.33
1993	\$312.62	\$202.08	\$214.43	\$194.79	\$171 <b>.</b> 21	\$192.52	\$135.78	\$141.67	\$166.91	\$206.26	\$188.12
1994	\$314.46	\$228.65	\$219.33	\$209.38	\$178.02	\$196.97	\$145.44	\$139.99	\$177.98	\$231.06	\$198.68
1995	\$311.61	\$221.16	\$219.13	\$221.46	\$183.78	\$212.54	\$146.26	\$149.95	\$180.75	\$252.36	\$203.22
1996	\$329.39	\$212.09	\$228.72	\$230.37	\$185.35	\$217.93	\$148.84	\$147.90	\$188.26	\$265.79	\$207.28
1997	\$318.71	\$213.84	\$229.04	\$241.79	\$181.65	\$216.85	\$157.71	\$147.52	\$192.36	\$272.46	\$209.49
1998	\$323.37	\$220.48	\$234.95	\$240.56	\$182.65	\$214.37	\$164.92	\$149.30	\$202.00	\$280.25	\$213.52
1999	\$324.77	\$228.57	\$236.39	\$247.73	\$187.89	\$212.70	\$167.56	\$154.73	\$196.78	\$285.14	\$215.61
2000	\$321.19	\$228.20	\$243.75	\$258.41	\$191.88	\$218.11	\$168.41	\$155.33	\$207.56	\$305.72	\$222.31
2001	\$318.72	\$255.85	\$250.23	\$264.27	\$195.22	\$218.68	\$174.99	\$159.72	\$212.39	\$314.30	\$229.63
2002	\$325.60	\$276.08	\$249.55	\$268.74	\$207.32	\$225.66	\$180.12	\$158.41	\$220.99	\$348.21	\$238.95
2003	\$346.87	\$286.70	\$244.16	\$311.31	\$220.11	\$228.64	\$171.49	\$152.46	\$220.01	\$375.13	\$249.44
2004	\$374.54	\$288.61	\$282.95	\$300.02	\$218.75	\$264.95	\$184.68	\$175.91	\$235.86	\$387.05	\$261.48
2005	\$434.72	\$321.74	\$307.43	\$332.32	\$234.03	\$266.10	\$205.16	\$172.02	\$248.99	\$424.45	\$283.91
2006	\$450.31	\$337.77	\$328.61	\$317.28	\$257.38	\$286.47	\$237.39	\$174.16	\$267.69	\$362.64	\$294.98
2007	\$521.61	\$351.17	\$352.44	\$346.23	\$261.41	\$258.73	\$235.62	\$179.91	\$279.37	\$381.80	\$307.60
2008	\$574.21	\$375.19	\$367.16	\$326.15	\$277.94	\$272.61	\$247.33	\$180.30	\$312.89	\$407.39	\$324.11
2009	\$609.85	\$391.05	\$400.52	\$351.74	\$338.53	\$291.17	\$279.35	\$190.15	\$347.99	\$414.82	\$356.90
2010	\$603.38	\$397.14	\$409.75	\$397.34	\$363.08	\$289.33	\$275.64	\$199.36	\$423.15	\$414.22	\$381.45
2011	\$694.75	\$437.43	\$433.97	\$436.66	\$379.11	\$315.88	\$321.44	\$218.77	\$387.45	\$447.01	\$398.54
2012	\$698.93	\$435.98	\$462.55	\$482.27	\$386.52	\$334.36	\$357.31	\$219.23	\$387.48	\$471.93	\$412.17
2013	\$699.85	\$460.26	\$493.67	\$490.74	\$407.50	\$366.93	\$395.11	\$225.02	\$400.58	\$502.29	\$435.26
2014	\$722.31	\$481.80	\$487.14	\$467.33	\$437.33	\$371.67	\$439.35	\$232.31	\$419.37	\$511.42	\$447.99
2015	\$812.79	\$496.06	\$496.90	\$472.65	\$428.34	\$371.67	\$476.01	\$251.62	\$415.45	\$533.32	\$451.93
2016	\$860.09	\$510.38	\$547.29	\$584.29	\$400.82	\$376.82	\$501.97	\$259 <b>.</b> 28 \$261 <b>.</b> 82	\$435.60	\$553.62	\$479.07
2017 2018	\$884.44	\$512.25 \$529.22	\$571.14 \$553.50	\$535.72 \$581.85	\$455.45 \$433.48	\$418.89 \$461.38	\$531.30 \$547.66	\$201.62	\$444.23 \$445.18	\$594.02 \$619.53	\$501.21 \$503.01
	\$915.86 \$910.06	\$529.22	\$553.50	\$598.64	\$433.40	\$401.36	\$547.00	\$209.49	\$445.16	\$571.56	\$503.01
2019 2020	\$902.64	\$484.82	\$595.95	\$569.08	\$477.49	\$440.94	\$605.43	\$300.19	\$505.51	\$593.89	\$512.01
2020	\$985.96	\$513.97	\$674.82	\$589.33	\$517.52	\$446.31	\$638.61	\$315.78	\$482.11	\$731.58	\$550.81
2022	\$1,000.36	\$517.34	\$663.95	\$606.66	\$534.52	\$451.47	\$673.91	\$334.45	\$516.74	\$771.08	\$567.12
2022	\$1,000.30	\$517.34	\$699.36	\$653.43	\$534·52 \$547.00	\$451.47	\$679.57	\$334.45 \$387.48	\$510.74	\$790.06	\$507.12
2023	\$1,010.27	\$550.00	\$099.30	₹ <sup>0</sup> 55.45	\$547.00	3454.50	\$0/9.5/	\$307.40	\$515.09	\$/90.00	95،/۰۵۶
# of Responses	9	10	18	23	31	10	13	14	22	14	164
Population	3.5	13.1	11.1	10.0	19.7	9.3	4.3	3.9	19.3	4.8	99.0
(millions)		-									
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### Distribution Trend of Average Annual Residential Sewer Charge (National)



Percent of Agencies Less Than Value

### Regional Distribution of Service Charges (2023)

(Charge vs. Percent of Charges Less Than Value)

