



Benchmarking Residential Water and Sewer Rates in South Carolina

Columbia, South Carolina Thursday, May 12, 2016

This program is made possible under a cooperative agreement with EPA.













Objectives

- Become familiar with features and benefits of our South Carolina Residential Water and Wastewater Rates Dashboard.
- Learn how to compare one system's rates with those of other systems.
- Learn how to apply useful financial benchmarks to your system.







Water Rates in South Carolina

October 2015 Residential Water/Wastewater Rates in South Carolina:

- SC rates data sourced from statewide rates survey by the South Carolina Rural Infrastructure Authority's Office of Local Government
- Over 230 residential drinking water and/or wastewater utilities included
- Municipalities and Special Purpose Districts







Everyone needs safe drinking water!



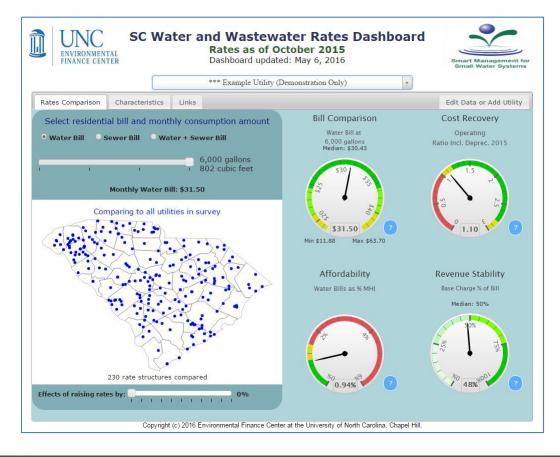




The South Carolina Rates Dashboard!

On the EFC Website:

 Go to: efc.sog.unc.edu and search for "South Carolina Rates Dashboard"









Source of pride?



Job Openings

Citizen Survey Results

Council Agenda

Comprehensive Planning Information

Community Assessment

E-News Signup





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Low Water and Sewer Rates

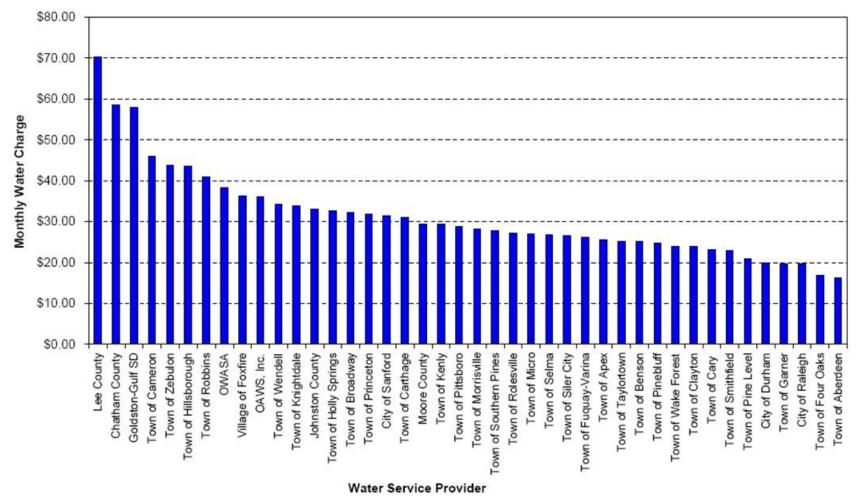
January 8, 2007

Once again, the City of Water Department proved to have some of the lowest water and sewage rates in the state. A recent statewide comparison was conducted among 63 water provide the rates residents pay for their water and sewage on a monthly basis. The City of Cartersville is proud to say, based on 7,000 gallons, the average monthly usage per household, the City has the third lowest water and sewage rates statewide, with an average water bill of \$15.38, and sewage bill of \$10.36. As a result, proved to have the third lowest combined residential water and sewage rates, of the 63 polled.











Source: NC Triangle J Council of Government





What's wrong with it?

- Poor sample selection (number, types of systems)
- Comparing only one bill amount
- Comparing nothing besides rates
 - pressure to keep rates low …
 - ... regardless of financial condition of utility
 - ignores customers' ability to pay
 - ignores price signals and utility's policies





Solution: provide more information?

Rate Table 1: FY09-10 Water Rate Structures for Residential Customers																		
Utility / Rate Structure		Service Population	Billing Period	Base Charge Pricing	 Drovided with Water Rate Structure 		Number of Blocks	First Block Maximum (Monthly Gallons)	Implied Rate Structure f Residential Usage (< 15,000 GPM)		ige	Outside/Insid Bill Differentia at 5,000 Gallor	al					
Aberdeen		5,455 ¹	Bi-monthly	Constant	0	Increasir	g Block	5	2,500	Inc	creasing Bloo	ck	188%					
Ahoskie		4,479 1	Monthly	Constant	0	Uniforn	n Rate			l	Jniform Rate		200%					
Alamance		Bi-monthly	Constant	0 Uniform Rat		Rate			Uniform Rate									
Albemarle	1		Monthly	Constant	2,244	Decreasi	ng Block	3 224,400		Implied Uniform Rate		Rate	200%					
Alexander County - Bethlehem 10,917 1			Monthly	By Meter Size	0) Unifor				Uniform Rate								
Alexander County - Suga				Com	pare with cautio	n. High rate	s may be	justified ar	nd necessa	ary to prot	ect public	health.		-				
Andrews	Deta Table O. EVOO 40 Manufally Empirelant DECIDENTIAL MATER Bills at Various Community of Association Involved Brown																	
Angier	Rate Table 2: FY09-10 Monthly-Equivalent RESIDENTIAL WATER Bills at Various Consumption Levels (Includes Base Charges)																	
Anson County									_									
Ansonville	Heller / D. to Characteria			Service	Oper. Revenue/			3,000 Gallons		5,000 Gallons		6,000 Gallons			10,000 Gallons		15,000 Gallons	
Apex	Utility / Rate Structure			Population	Oper. Expense (FY09 LGC Data)	(0 cf) Inside Outside		(401 cf) Inside Outside		(668 cf) Inside Outside		(802 cf) Inside Outside		(1,337 cf) Inside Outside		(2,005 cf) Inside Outside		
Archdale	Aberdeen			5.455 ¹	0.81	\$5.00	\$8.00	\$11.82	\$21.65	\$16.62	\$31.25	\$19.1		\$29.75	\$57.49	\$45.49	\$88.99	
Asheboro	Ahoskie			4,479 ¹	1.50	\$10.00	\$20.00	\$20.95	\$41.90	\$28.25	\$56.50	\$31.9		\$46.50	\$93.00	\$64.75	\$129.50	
Asheville	Alamance			800 1	0.73	\$8.50	φ20.00	\$19.27	941.50	\$26.45	g30.30	\$30.0	-	\$44.40	\$55.00	\$62.35	φ123.30	
Atlantic Beach	Albemarle			16.042 1	0.73	\$9.49	\$18.97	\$11.31	\$22.60	\$16.12	\$32.23	\$18.5		\$28.15	\$56.29	\$40.18	\$80.36	
Aulander		dililian.		10,917 1		\$27.92	Φ10.37	\$32.09	\$22.0U	\$34.87	\$3Z.Z3	15 50	3 337 (41	a/0 [J	3,30,731	3.78	\$00.00	
Aurora	Alexander County - Be		c		1.16	7		*		*		1						
Autryville	Alexander County - Su	igarloat and Hwy 1	ь	10,917 1	1.16	\$19.44 \$14.30	\$40.70	\$29.66	\$40.70	\$36.47 e10.03	*40.00	1	(B)(0.71)			0.52	*00.00	
Ayden	Andrews			1.785	11 × 7	¥1# 40	CALL TILL	C1// 41	CALL THE	eluuz	\$46.33				DESIGN.	7.43	\$83.83	
Bailey	Angier			10	OF						\$39.30			1	-	6.80	\$92.30	
Bakersville	Anson County				85 pa	<u> 19</u> 6	S						STATE OF			4.89		
Bald Head Island	Ansonville				5 0 p	700							The same of			9.67		
Banner Elk	Apex		r								\$44.28	1			1	7.34	\$114.68	
Bath	Archdale		at v	MOD	derf	111 🕇	ah				\$47.50	1				1.25	\$122.50	
Baton Water Corporation	Asheboro		OI '	VVOI	idei i	ui t	ab	IC3,	,		\$51.74	- 4	The state of	1		4.24	\$135.70	
Bay River Metropolitan S	Asheville			_									The same of	~	SISE N	3.63		
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Beaufort County - District	Aulander	ΙU	\mathbf{H}	ıı Ud	ııa y(JU (Jai	ıus	て!		\$22.71		1100	The same	F 1 1 1 1 1	7.28	\$25.06	
Beaufort County - District	Aurora				,						\$55.40		1	1	12 14	3.65	\$107.40	
Beaufort County - District	Autryville			375 ¹	1.02	\$19.00	\$23.75	\$30.50	\$38.13	\$42.00	\$52.50			100	The state of the s	9.50	\$124.38	
Beaufort County - District	Ayden			5,629 1	1.11	\$11.00	\$22.00	\$23.75	\$37.75	\$32.25	\$48.25	Special	Tell	1		9.74	\$115.74	
Beaufort County - District	Bailey			850 ¹	0.88	\$16.50	\$33.00	\$20.79	\$41.58	\$23.65	\$47.30	10	VI B			7.95	\$75.90	
Beaufort County - District	Bakersville			737 1	0.63	\$16.00	\$26.00	\$16.00	\$26.00	\$17.00	\$28.00					7.00	\$48.00	
Dedulor County - District	Bald Head Island			2.806 1	1.28	\$17.67	,	\$32.64	,	\$48.27	,			1		6.47		
	Banner Elk			1,407 1	0.76	\$12.60	\$25.20	\$16.20	\$32.39	\$23.89	\$47.78	-		1		3.89	\$121.78	
ervice Pop.: 1=EPA SDWIS,	Bath			290 1	1.17	\$27.50	\$20.20	\$37.50	Q-0.00	\$57.50	Ç11.10	\$67.5	0 1	\$107.50	11	\$157.50	\$121.70	
2xsewer accounts, 6=Water	Baton Water Corporati	ion		6.720 ¹	1.11	\$13.65		\$13.65		\$21.29		\$25.1		\$40.39		\$58.43		
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Water/Sewer Rates Dashboards

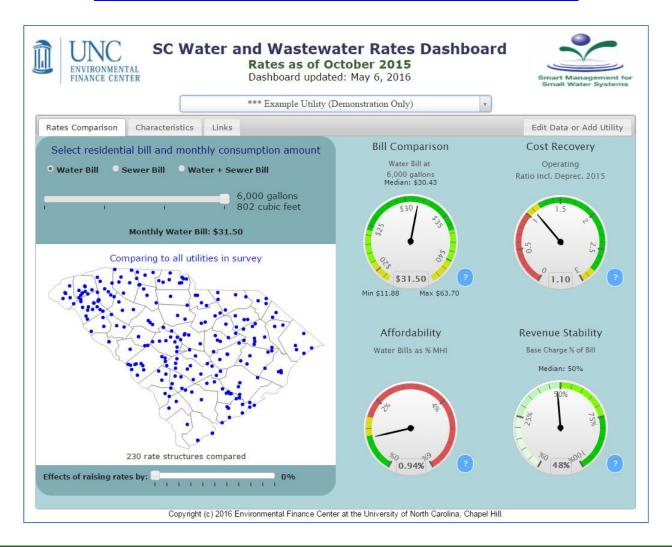
- Created for AL, AZ, CO, GA, IL, MA, NC, OH, SC, TX,
 VA, WI and Canada. (With more coming soon!)
- Free, online, open to the public.
- Compares rates against multiple characteristics:
 Utility finances; System characteristics; Customer base socioeconomic conditions; Geography; History
- Compare to similar utilities (large samples):
 - All utilities; similar service population; similar water source; using same rate structure; similar customer income; same type of utility; within 50 miles distance





Demonstrate the SC Dashboard:

http://efc.sog.unc.edu







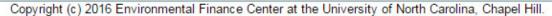


New Revenue Stability Dial

- Added to the new S.C. rates dashboard
- May later add it to other rates dashboards (e.g. N.C.)
- Measures percentage of chosen bill from base charge part of total bill
- Hence looks at stability of revenue under conditions of disruption of sales

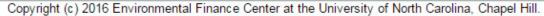






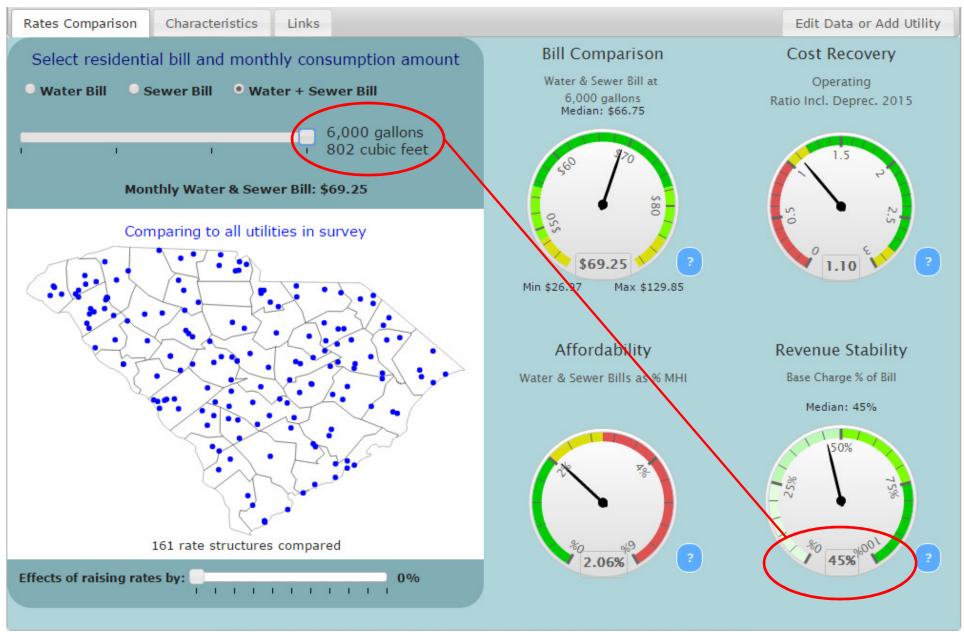




















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