

Water System Revenues

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Session Objectives

- Understand how to pay for the costs of running your water system
- Look more closely at your rates









Systems Love Low Rates, but...

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 and sewage rates in recent s providers to evalue rates residents p City of Is proud to say, based of household, the City has the third lowest water are

bill of \$15.38, and sewage bill of \$10.36. As a result, combined residential water and sewage rates, of the 63 polled.

"Once again, the [City's] Water Department proved to have some of the lowest water and sewage rates in the state."

proved to have the third lowest

The commercial rates were also compared among the same providers, based on 150,000 gallons per month. has the lowest sewage, as well as the lowest combined water and sewage rates of those polled. The average commercial monthly sewage bill is \$222.00, with the combined







What about customers?

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HOT TOPICS:	Campaigr	2012	Media	Matters	GBTV		+ 1 1.9k	
BUSINESS		~			~ ~ ~			

RESIDENTS INCREDIBLY HAPPY ABOUT WATER SERVICE: *"I DON'T KNOW HOW THESE FOLKS DO IT – CLEAN WATER WHENEVER I NEED IT FOR ONLY A FEW DOLLARS A DAY!!*"

Posted on December 17	7, 2011 at 3:20pm by 💹 Becket Adams
🖬 Like 🛛 467 🔍 Send	+1 10 >> Tweet <78

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Comments (32



"These people are going to end up rioting about this," says Sheila Tyson, a community activist in Jefferson County, Ala. "If they let this stuff happen they are going to get the biggest riot the South has ever seen . . . I can see it coming."











"Full Cost Pricing"

- Operations & maintenance expenditures
- Taxes and accounting costs
- Contingencies for emergencies
- Principal and interest on long-term debt
- Reserves for capital improvement
- Source water protection







The Main Source: Your Revenue

- Pay as you go (current receipts)
- Save in advance and pay
- Pay later (someone loans you money)
- Grants (let someone else pay)







Non-Rate Revenues

- Penalties
- Cellphone and radio receivers on the tank
- Ads on the tank
- Tap fees
- System development charges







Town of Jacksonville

We charge A flat rate of \$ 15.00 most by P.O - BOX 133 JACHOWSIL

We ARE A Smoll town we do Not have Sewage







Other Places with a Fixed Rate

- Small town in New York state that charges \$120/year, billed twice
- Trailer park in Ohio that includes water in the monthly rent
- HUD-subsidized apartments that must include water in rent



City of Chicago





The Reef Condos – USVI

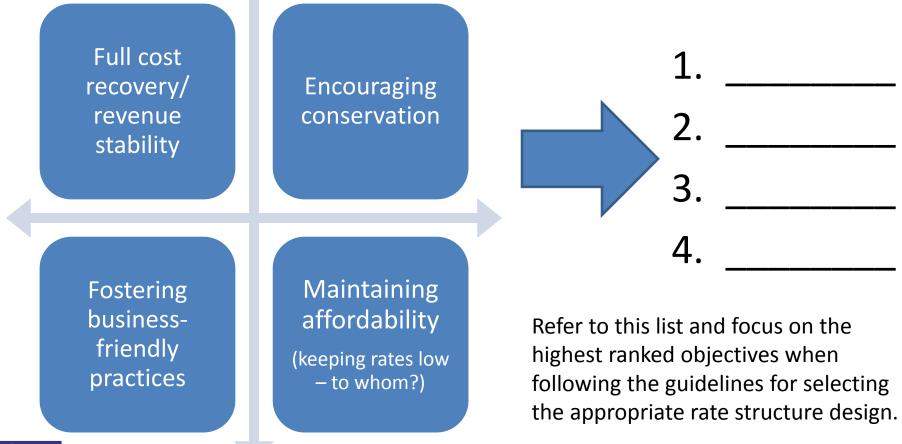
- Has residential units and commercial (shops and restaurants)
- Flat rate structure for residents
- Decreasing block for commercial
- Bulk rate for the next condo complex over







Rank Your Rate Setting Objectives









Elements of Rate Structure Designs

- 1. Customer classes/distinction
- 2. Billing period
- 3. Base charge
- 4. Consumption allowance included with base charge
- 5. Volumetric rate structure
- 6. (If applicable) Number of blocks, block sizes and rate differentials
- 7. Frequency of rate changes







Customer Classes/Distinctions

- One rate structure for all
- Target: All are equal







Customer Classes/Distinctions

- Separate rate structure for residential, irrigation, commercial, industrial, governmental, or wholesale customers
- Target: Specific type of customer







#3 City of Stockbridge

Gallons of Water Metered

<u>Residential</u>

0 through 4,000 gallons 4,001 through 9,000 gallons 9,001 gallons and up	\$ 4.56 Per Thousand 6.99 Per Thousand 9.42 Per Thousand	\$ 4.56 Per Thousand 6.99 Per Thousand 9.42 Per Thousand

Commercial, Apartments and Mobile Home Parks

0 through 10,000	\$ 5.78 Per Thousand	\$ 5.78 Per Thousand
	\$ 6.95 Per Thousand	\$ 6.95 Per Thousand

Irrigation

Per thousand gallons \$ 9.26

Hydrant Meter



Per thousand gallons

\$ 9.26

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Customer Classes/Distinctions

- One rate structure, but with different base charges based on meter size
- Target: Non-residential or multi-family housing







#2 Mount Pleasant

Water Meter Size	0 to 2,000 Gallons	Gallons Over 2,000
Inside Town		
5/8" or 3/4"	\$21.00	\$3:40/1000
1"	\$39.80	\$3.40/1000
1 1/2 "	\$112.40	\$3.40/1000
2" and up	\$218.00	\$3.40/1000
Outside Town		
5/8" or 3/4"	\$36.75	\$5.95/1000
1"	\$69.65	\$5.95/1000
1 1⁄2"	\$196.70	\$5.95/1000
2" and up	\$381.50	\$5.95/ 1000









#3 City of Stockbridge

Monthly Minimum Base Charge*

Mete	r Size	<u>Water</u>	<u>Sewer</u>
3/4	Most Residential	. \$ 6.00	\$ 6.00
1		\$ 7.00	\$ 7.00
1,5		\$ 37.00	\$ 12.00
2		\$ 100.00	\$ 12.00
3		\$ 175.00	\$ 12.00
4		\$ 225.00	\$ 12.00
6		\$ 300.00	\$ 12.00
8	· · · · ·	\$ 400.00	\$ 12.00
10		\$ 700.00	\$ 12.00









Customer Classes/Distinctions

- One rate structure for all, but with blocks that implicitly only target non-residential use
- Target: Non-residential









#4 Union Point

RATE CO	NSUMPTION
\$21.00 3.98 3.84	300,000 999,999,999
	\$21.00 3.98









Customer Classes/Distinctions

- Different rates for customers outside municipal limits/service area boundaries
- Target: "Outside" customers









#2 Mount Pleasant

Water Meter Size	0 to 2,000 Gallons	Gallons Over 2,000
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Customer Classes/Distinctions

- Negotiated rate structure with individual high-use customers (typically an industrial customer)
- Target: Only one customer









Billing Period



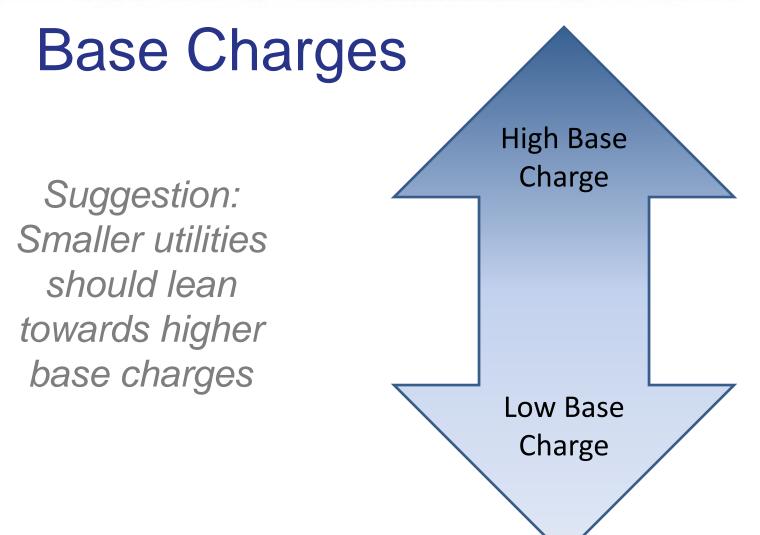
Less Frequently (e.g.: Quarterly)

Suggestion: Use a monthly billing period if you can afford it

















Consumption Allowance with Base Charge

Do not	Include some	Include high	
include any	amount	amount	
(O gallons)	(e.g. 1,000 gal/mo)	(e.g. 3,000 gal/mo)	

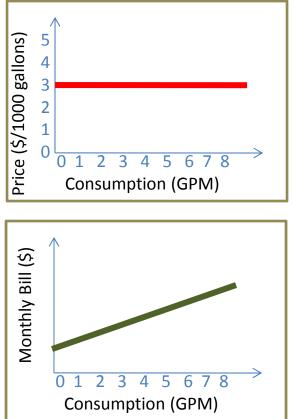
Suggestion: For systems with low base charges, do not include any consumption allowance. For systems with high base charges but wish to encourage conservation, keep consumption allowance low, if any.





Volumetric Rate Structure Uniform ("Flat") Rates

• Fair and simple











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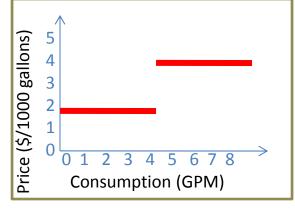


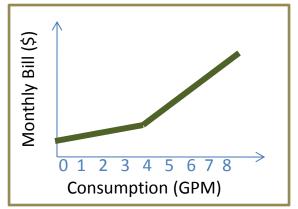




Volumetric Rate Structure Increasing Block Rates

- Conservationoriented
- Consider large families













#3 City of Stockbridge

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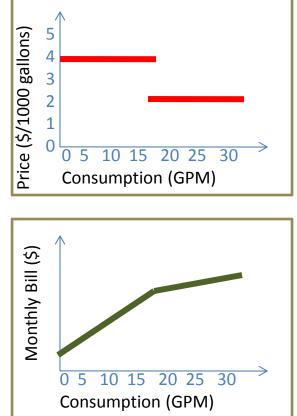
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Volumetric Rate Structure Decreasing Block Rates

- Provide price break for large users (e.g.: commercial)
- Do not use for residential











#4 Union Point

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	\$21.00 3.98







(If Applicable) Block Designs

For block rate structures to be effective:

- Decide on the correct number of blocks
- Decide on where the blocks should end/start
- Set significant rate differentials between blocks





(If Applicable) Block Designs

For block rate structures to be effective:

- Keep in mind your base charge and consumption allowance
- Meter reading must be punctual, and meters must be replaced frequently
- Think about large families







#5 – Too Many Blocks!

-010/10/20/070						
	Per 1000 gal.	water	Per 1000 gal.	sewer	combined	
fixed 1000	rate	11.66	rate	13.10	24.76	
2000	2.43	14.09	3.67	16.77	30.86	
3000	4.85	18.94	7.41	24.18	43.12	
4000	5.65	24.59	7.72	31.90	56.49	
5000	5.78	30.37	8.06	39.96	70.33	
6000	6.04	36.40	8.21	48.18	84.58	
7000	6.23	42.63	8.40	56.58	99.20	
8000	6.43	49.06	8.61	65.19	114.24	
9000	6.63	55.68	8.79	73.97	129.65	
10000	6.63	62.31	8.79	82.76	145.07	
11000	6.63	68.93	8.79	91.55	160.48	
12000	6.63	75.56	8.79	100.34	175.90	
13000	6.63	82.18	8.79	109.13	191.31	
14000	6.63	88.81	8.79	117.92	206.72	
15000	6.63	95.43	8.79	126.71	222.14	
15001-99999999	6.51	102.27	8.99	135.69	237.96	
				and the second sec		







Frequency of Rate Changes

- Always review your rates annually (recommended)
- Review your financial health indicators annually, and then review your rates if any of the indicators reflect poor financing
- Raise rates each year automatically based on inflation







#8 Village of Richmond

SECTION 3.27 ANNUAL INCREASE OF RATES AND FEES

The following fees: Water and Sewer Service, Building Permit Fees, School Impact Fees, Fire Prevention and Life Safety Donations and Municipal Impact Fees as set forth by Village ordinance are subject to an annual increase to be applied by the Village Treasurer by May 1 of each year using the following prescribed formula:

The above rates and Fees will be increased by the amount of the percentage increase of the Consumer Price Index (hereinafter defined) for the previous calendar year. Consumer Price Index ("CPI") means the U.S. City Averages for all Urban Consumers, All Items, (1982-1984=100) of the United States Bureau of Labor Statistics. The CPI for any calendar year shall be determined by averaging the monthly indices for that year. If the Bureau of Labor Statistics substantially revises the manner in which the CPI is determined, an adjustment shall





Frequency of Rate Changes

 Important: Avoid maintaining low rates at the expense of your utility's financial health. It will either lead to a sudden, massive rate increase in the future or to failing systems and endangering public health.









Designing Rate Structures That Support Your Objectives

Free guide written for system managers

Available at: <u>http://efc.sog.unc.edu/</u>

