Canebrake County Water District Water Rates

Board Meeting January 13, 2024

FY 2022-2023



Winter 2024

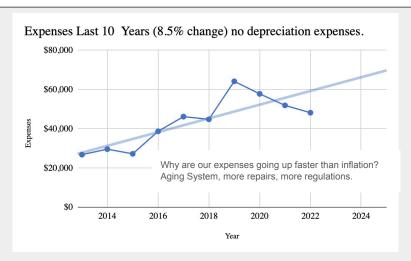
Water Rate History and Expenses/Income/Profits

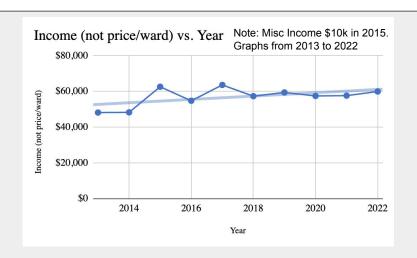
Date	Access Fee	<5k gallons cents/gallon	<10k gallons cents/gallon	> 10k gallons cents/gallon			
August 2015	\$50		0.75 (\$7.5/kgallon)	3 (\$30/kgallon)			
Oct 2015	\$60 (+%20)	0.95 (+26%) (\$9.5/kgallon)	0.95 (+26%) (\$12.5/kgallon)	3 (\$30/kgallon)			
Apr 2019	\$60	1.25 (+31%) (\$12.5/kgallon)	2.5 (+%263) (\$25/kgallon)	4 (+%33) (\$40/kgallon)			
Usage Last 3 yrs (1386 readings)	77 meters	92% (~7 houses no usage)	7% (97 reads)	1% (12 reads)			

Water Usage Fee <5k gallons - common consumers Water Usage >5k gallons - garden hobbyists & oversights

Usage 2023 One Tier Equivalent 1.516 cents/gallon

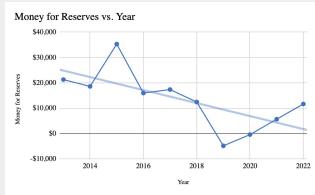
calculation

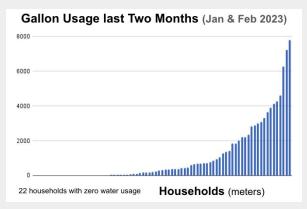




US Inflation increases Avg 2.56%/year Canebrake Patrons Donate \$1740/year

Donations	Amount (last 10 years)
Patrons	\$17.4 k
Price/Ward	\$88 k
Total	\$105 k





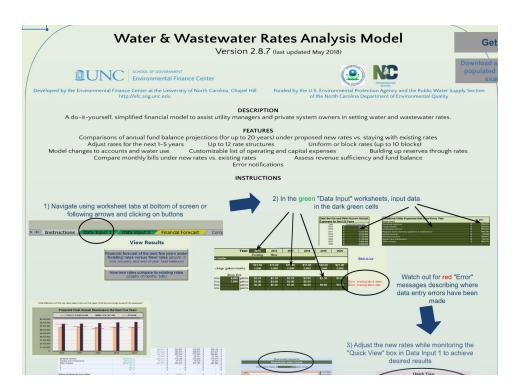
Water Rates Calculator

Rates Calculator - funded by the EPA and created by the Environmental Finance Center at the University of North Carolina Chapel Hill.

Output - The Calculator will compute your Fund Balance - the best measure of a life-to-date net worth based on transactions that have been posted. The calculator allows for easy adjustments and visualizations using graphs and tables.

High Level Inputs

- 1. Volume Usage & Usage Trends per Tier
- # Customers
- 3. Customer Trends (growth rate, uncollectable bills)
- 4. Current Rate Structure (Access Fee and Tiers with prices)
- 5. One Time Fees (eg connection)
- 6. Proposed Rate Structures for next 5 years
- 7. Yearly Expenses (budget)
- 8. Debt Services
- 9. Reserves amounts
- 10. Inflation per Year



Supporting Docs for Rate Analysis

Rates Calculator (Funded by EPA, created by Univ North Carolina, Environmental Finance Center)

<u>Univ North Carolina Finance Center</u> (POC for Rates Calculator)

<u>CCWD Finance Calculator</u> (Investments, Budget, Asset Dashboard)

CCWD Capital Reserves and Yearly Expenses

CCWD Master Schedule (Five Year Plan, Admin Schedule, Maintenance Schedule, Finance Schedule)

<u>CCWD Historical Budgets</u> (Last 10 years Budgeted vs Actual Expenses)

CFO also has:

- Profit Loss Statements (summary and detail) last three years
- Balance Sheet
- January Financial brief showing:
 - Bank balances
 - Investment Portfolio
 - Government apportionment and trends
 - Asset Dashboard Status

Inflationary Impact of Delaying Rate Adjustment

Assume \$1.00 Base rate with an annual 3% Compounded Increase																
	Year	1	Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Accumulated Dollars Collected	
Implementing Rate Increase Immediately - 19% Increase From Year 1 to Year 7																
Rate	\$	1.00	\$	1.03	\$	1.06	\$	1.09	\$	1.13	\$	1.16	\$	1.19	\$	7.66
Waiting 4 Years to Increase Rates - 26% From Year 1 to Year 7																
Rate	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.19	\$	1.22	\$	1.26	\$	7.66
	Waiting 5 Years to Increase Rates - 35% From Year 1 to Year 7															
Rate	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.31	\$	1.35	\$	7.66
Waiting 6 Years to Increase Rates - 66% From Year 1 to Year 7																
Rate	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.66	\$	7.66

Raise Rates Annually! It's cheaper in the long term.

Water Rate Life Expectancy

Current rate structure should be reviewed **annually**.

The Bottom Line

Annual revenues must cover your total:

- ✓ Operating & Non- Operating expenses
- ✓ Debt payments
- ✓ Taxes
- ✓ Fees
- Funding reserve accounts