

Budget – The Foundation of Rates



WELCOME!

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Rural Community Assistance Partnership

RCAP National Office

1701 K St. NW, Suite 700 Washington, D.C. 20006 www.rcap.org

Western RCAP

Rural Community Assistance Corporation www.rcac.org

www.rcac.org

Midwestern RCAP Midwest Assistance Program www.map-inc.org

Southern RCAP Communities Unlimited www.communitiesu.org

Great Lakes RCAP

Great Lakes Community Action Partnership www.glcap.org

Southeastern RCAP

Southeast Rural Community Assistance Project www.sercap.org

Northeastern RCAP RCAP Solutions

www.rcapsolutions.org





RCAC Programs

- Affordable housing
- Economic Development
- Loan Fund water and wastewater infrastructure financing
- Classroom and online training
- On-site and remote technical assistance
- Income surveys and rate analysis



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Our board and staff are committed to providing training, technical assistance, financial resources, and advocacy to help rural communities throughout the West achieve their goals and visions. We work in diverse and low-income communities to increase access to affordable housing and safe drinking water, promote economic opportunity and job creation, and provide financing for community and economic development projects.

https://www.rcac.org/careers/



Today's Objectives

➤ Define the "True Cost" of Delivering Drinking Water and Wastewater Services

➤ Identify the Components of a Strong Budget

Understanding the Importance of Financial Forecasting

What is the "True Cost" Water & Wastewater Service





Determining Expenses: Operating Expenses

The cost of operating your utility on a daily basis

Examples:

- Water/wastewater treatment
- Personnel wages
- Equipment maintenance
- Administration fees

Operati	ng Expenses:	
	Bad Debt	-
	Insurance	367
	Miscellaneous Expense	350
	Office Costs	754
	Accounting & Legal	400
	Training Costs	125
	Auto Expenses	1,415
	Chemicals	398
	Materials & Supplies	712
	Repairs & Maintenance	3,233
	Depreciation	374
	Utilities	1,325
	Salaries & Benefits	3,997
	Total Operating Expenses	13,450
	Debt Service	
	Reserve Funding	
Total Ex	penses	13,450

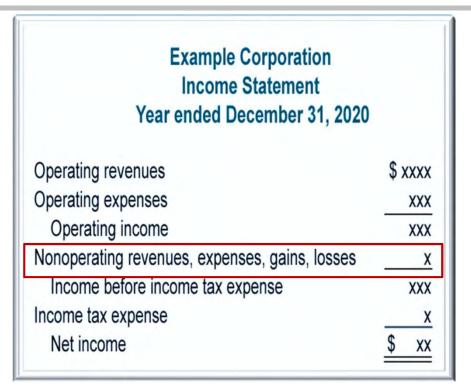


Determining Expenses: Non-Operating Expenses

Expenses not directly related to operating your utility on a daily basis.

Examples:

- Cleaning service
- Landscaping
- Debt interest





Determining Expenses: Fixed & Variable Expenses

Fixed Expenses

Costs incurred by the utility system before service provided.

- Debt payments
- Rent / lease
- Personnel wages

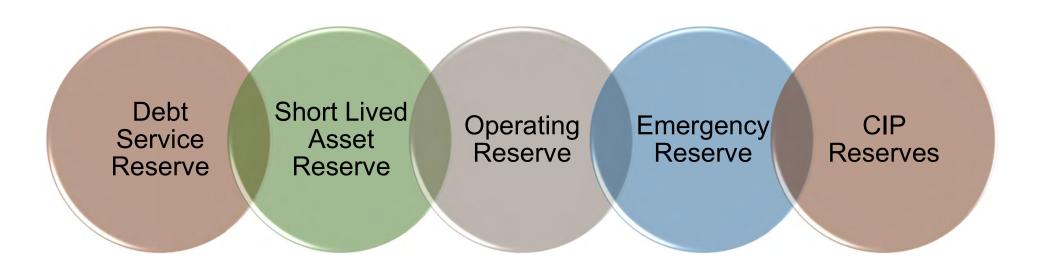
Variable Expenses

Costs incurred in providing service to your customers.

- Portions of Utilities
- Portions of Maintenance
- Portions of Engineering fees



Determining Expenses: Reserves





Calculating the True Cost of Service

- Operating Expenses
- Non-Operating Expenses
 Fixed & Variable Expenses
- Debt Service
- Reserves



TRUE Cost-of-Service



Budget: The Foundation of Rates





Budget Development Step 1: Gather Your Team

- Budgeting is a team activity with a lot of components.
- Various people may have the best information about individual components.
- Think about who will be needed to provide realistic projections.



Budget Development Step 2: Review Policies



What are some policies that might be relevant when developing the annual budget?



Budget Development Step 3: Review Historic Documents

- Balance Sheet / State of Financial Position
- Income Statement / Profit & Loss / Statement of Activities
- Budget Comparison Report





Budget Development Step 4: Identify Debt Service

- Principal Payments on Notes Payable(s)
- Interest Payments on Notes Payable(s)
- Lines of Credit
- Bonds Payable



All payments to lenders for loans, mortgages, etc.



Budget Development Step 5: Identify Reserves Needed

Funder Required Reserves

- Debt Reserves
- Short Lived Asset Reserves

Board Designated Reserves

- Operating Reserves
- Emergency Reserves
- Asset Management
- CIP Reserves



Asset Management



Equipment starts to wear the day it is turned on



Asset Inventory: What do we own?

Assets

- Buildings
- Tools
- Equipment
- Pipes
- Machinery
- Vehicles





Asset Inventory & Analysis

Component	Year Acquired	Purchase Cost	Current Age	Est. Life Remaining	Est. Current Rplacement Cost	Est. Future Replacement Cost	1	Fund with Cash	Fund with Grant	F	und with	100	disting serves	Anı	nual Reserves Required
Booster Station Pumps	2010	10,000	10	10	\$13,439	\$14,859	\$	14,859				\$	1,482	\$	1,338
Distribution Mains	2000	928,256	20	30	\$1,676,534	\$2,498,483	\$	498,482.74	\$ 1,500,000	\$	500,000	\$	494	\$	16,600
Distribution Mains	2005	240,000	15	35	\$373,912	\$645,981	\$	95,981.13	\$ 200,000	\$	350,000	\$		\$	2,742
Distribution Mains	2007	93,000	13	37	\$136,574	\$250,318	\$	50,317.69		\$	200,000	\$	4,941	\$	1,226
Surface w ater inlet Structure	2000	25,500	20	30	\$46,056	\$68,635	\$	68,635		\$		\$	445	\$	2,273
Subsurface water inlet Structure	1990	18,600	30	20	\$45,147	\$50,064	\$	50,064		\$	(0)	\$	647	\$	2,471
Pump House and Wet Well	1988	138,000	32	18	\$355,361	\$371,439	\$	71,439.15		\$	300,000	\$	1,186	\$	3,903
Bridge pipeline 6" Ductile Iropn Pipe	1997	20,000	23	57	\$39,472	\$97,509	\$	22,508.78		\$	75,000	\$	n Lega	\$	395
Bridge 10" Ductile Iron Pipe	2005	152,682	15	65	\$237,874	\$744,392	\$	144,391.80		\$	600,000	\$	1.0	\$	2,221
Subsurface Water Infiltration Gallery	2002	312,650	18	2	\$532,266	\$533,658	\$	33,658.06		\$	500,000	\$	692	\$	16,483
Zone @ Tanks 88,000 Gallon	1988	84,000	32	8	\$216,307	\$189,185	\$	189,185		\$		\$	1,492	\$	23,462
Zone @ Tanks 150,000 Gallon	2000	150,000	20	20	\$270,917	\$331,206	\$	56,205.95		\$	275,000	\$	642	\$	2,778
Zone @ Tanks 1 Million Gallon	2002	340,000	18	22	\$578,827	\$750,733	\$	150,147		\$	600,587	\$	1,285	\$	6,766
Water Meters	2015	20,000	5	10	\$23,185	\$26,917	\$	26,917		\$	-	\$	296	\$	2,662
8' X 30' Pressure Filter	2000	150,000	20	5	\$270,917	\$266,377	\$	16,376.70		\$	250,000	\$	180	\$	3,239
8' X 30' Pressure Filter	2002	150,000	18	7	\$255,365	\$256,033	\$	51,207		\$	204,826	\$	2,668	\$	6,934
(2) 50 HP Pumps	2002	30,000	18	7	\$51,073	\$51,207	\$	51,207		\$		\$	2,447	\$	6,966
Total		2,852,688			5,109,786	7,132,136	\$	1,576,724	\$ 1,700,000	\$	3,855,413	\$	18,897		102,460



6 Year Budget - Reserves

	Yr. 1	Υ	r. 2	Yr. 3	Yr. 4	Yr. 5	Yr. 6
Operating Reserve - Target Balance \$7,326 - Year 7							
Operating reserve beginning balance			\$0	\$0	\$1,221	\$2,442	\$3,663
Contribution to operating reserve				\$1,221	\$1,221	\$1,221	\$1,221
Operating reserve ending balance		\$0	\$0	\$1,221	\$2,442	\$3,663	\$4,884
Emergency Reserve - Target Balance \$50,000 – Year 13							
Emergency reserve beginning balance			\$0	\$0	\$0	\$5,000	\$10,000
Contribution to emergency reserve					\$5,000	\$5,000	\$5,000
Withdrawal from emergency reserve							
Emergency reserve ending balance		\$0	\$0	\$0	\$5,000	\$10,000	\$15,000
Short-lived Asset Reserve - Target Balance \$13,500 - Year 7							
Short-lived asset reserve beginning balance			\$0	\$0	\$2,700	\$5,400	\$8,100
Contribution to short-lived asset reserve				\$2,700	\$2,700	\$2,700	\$2,700
Withdrawal from short-lived asset reserve		\$0	\$0				
Short-lived asset reserve ending balance		\$0	\$0	\$2,700	\$5,400	\$8,100	\$10,800
Long-lived Asset Reserve - Target Balance \$90,000 - Year 13							
Long-lived asset reserve beginning balance			\$0	\$0	\$0	\$9,000	\$18,000
Contribution to long-lived asset reserve					\$9,000	\$9,000	\$9,000
Withdrawal from long-lived asset reserve		\$0	\$0	\$0	\$0	\$0	\$0
Long-lived asset reserve ending balance		\$0	\$0	\$0	\$9,000	\$18,000	\$27,000
Long-lived Asset Replacement Funding - Target Balance \$350,000 - Year 4							
Lost Creek Loan					\$175,000		
Lost Creek Grant					\$175,000		
Long-lived asset reserve							
Special capital improvement assessment							
Total funding for long-lived asset replacement		\$0	\$0	\$0	\$350,000	\$0	\$0
Ending Cash Balance for Current Year Does not include reserve account balances.							
	\$118	3,487	\$221,924	\$355,810	\$473,514	\$588,970	\$702,112

Budget Development Step 6: Create Expense Budget

Town of Anywhere, WA	2020	2021	2022	2023	evious 4 yr. Average	2	024
Operating Expense							
Salary/Wage	\$ 27,542.23	\$ 27,642.09	\$ 28,257.05	\$ 28,542.32	\$ 27,995.92	\$	30,000.00
Overtime	\$ 1,065.86	\$ 945.73	\$ 1,116.44	\$ 1,098.56	\$ 1,056.65	\$	1,200.00
Personnel Benefits	\$ -	\$ -	\$ 1,349.69	\$ 1,367.75	\$ 679.36	\$	1,450.00
Operating Supplies	\$ 9,249.03	\$ 9,366.36	\$ 9,378.27	\$ 9,738.23	\$ 9,432.97	\$	9,500.00
Lab Supplies	\$ 254.53	\$ 299.20	\$ 366.57	\$ 940.73	\$ 465.26	\$	1,000.00
Equip Maint Supplies	\$ 7,546.65	\$ 5,286.84	\$ 8,827.86	\$ 5,726.76	\$ 6,847.03	\$	10,000.00
Water Quality Oper Supplies	\$ 11,365.70	\$ 5,964.92	\$ 5,416.78	\$ 12,990.53	\$ 8,934.48	\$	13,000.00
CI2 System Supplies	\$ 792.00	\$ 1,308.32	\$ 1,942.87	\$ 2,732.47	\$ 1,693.92	\$	2,500.00
Fuel Consumed	\$ 3,142.57	\$ 3,298.09	\$ 3,861.69	\$ 3,756.09	\$ 3,514.61	\$	4,000.00
Small Tools & Equipment	\$ 2,674.34	\$ 2,709.90	\$ 9,901.39	\$ 3,245.78	\$ 4,632.85	\$	3,000.00
Professional Services	\$ 876.00	\$ 422.00	\$ 15,718.20	\$ 18,766.78	\$ 8,945.75	\$	20,000.00
Instrument Services	\$ 1,289.99	\$ 1,226.10	\$ 1,333.06	\$ 1,277.98	\$ 1,281.78	\$	1,300.00
Combined Debt Service	\$ 631,291.43	\$ 630,224.31	\$ 629,156.13	\$ 628,089.14	\$ 629,690.25	\$	627,022.11
Communications	\$ 3,022.11	\$ 3,101.49	\$ 3,985.89	\$ 3,508.02	\$ 3,404.38	\$	3,500.00
Travel/Meals	\$ 2,941.09	\$ 2,765.56	\$ 1,859.53	\$ 1,587.14	\$ 2,288.33	\$	2,000.00
Insurance	\$ 38,991.09	\$ 40,679.87	\$ 41,000.00	\$ 50,593.07	\$ 42,816.01	\$	50,000.00
Utilities	\$ 8,709.00	\$ 8,678.99	\$ 8,871.08	\$ 9,498.08	\$ 8,939.29	\$	10,500.00
Repair & Maintenance	\$ 2,287.01	\$ 2,687.33	\$ 2,743.10	2,336.87	\$ 2,513.58	\$	2,500.00
Miscellaneous (Dues, Fees etc)	\$ 5,489.00	\$ 5,025.66	\$ 5,047.33	\$ 5,027.96	\$ 5,147.49	\$	5,000.00
DOH Fees and Permits	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$	5,500.00
Snow removal and building upkeep.	\$ -	\$	\$ 8,615.35	-	\$ 2,153.84	\$	6,000.00
State Excise Tax	\$ 1,942.88	\$ 1,760.09	\$ 2,034.99	\$ 1,989.77	\$ 1,931.93	\$	1,800.00
	\$ 764,772.51	\$ 757,692.85	\$ 795,083.27	\$ 797,114.03	\$ 778,666	\$	810,772

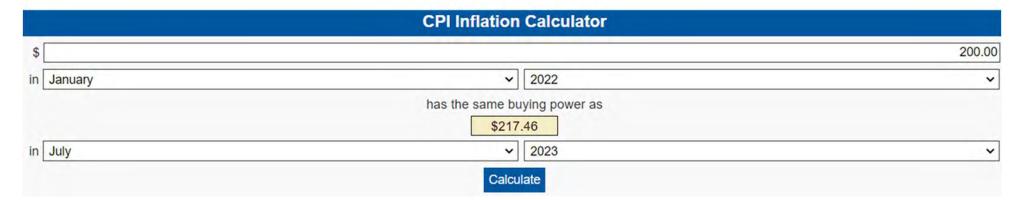
Fixed & Variable Costs

Expenses	Budg	eted Amount	% of Fixed	F	ixed Amount	Vari	iable Amount
Engineering -Gerneral	\$	50,000.00	75%	\$	37,500.00	\$	12,500.00
Equipment Maintenance	\$	20,600.00	65%	\$	13,390.00	\$	7,210.00
Fuel	\$	6,180.00	90%	\$	5,562.00	\$	618.00
Insurance	\$	6,000.00	100%	\$	6,000.00	\$	141
Permits	\$	3,296.00	100%	\$	3,296.00	\$	7-1
Pump & System Maintenance	\$	16,500.00	50%	\$	8,250.00	\$	8,250.00
Training/Travle Expenses	\$	1,030.00	100%	\$	1,030.00	\$	-
SRF Loan	\$	30,000.00	100%	\$	30,000.00	\$	-
Electricity	\$	27,050.00	50%	\$	13,525.00	\$	13,525.00
Employee Wages	\$	125,263.00	100%	\$	125,263.00	\$	- 1
Employee Overtime	\$	15,020.00	20%	\$	3,004.00	\$	12,016.00



Inflation







Budget Development Step 8: Adding Assumptions

2022 Budget Ass	sump	tions	
	2023	Budget Projections	Budget Assumptions
Salary/Wage	\$	190,600.00	5% increase assumed for all current employees for retention
Accounting	\$	4,250.00	\$200 increase per contract renewal
Office Supplies	\$	6,124.00	Assumes \$4,000 new software purchase for billing
Operating Supplies	\$	9,500.00	4% assumed inflationary increase over 2022 actuals
Lab Supplies	\$	1,000.00	4% assumed inflationary increase over 2022 actuals
Equip Maint Supplies	\$	10,000.00	4% assumed inflationary increase over 2022 actuals
Fuel Consumed	\$	4,000.00	5% assumed inflationary increase over 2022 actuals
Small Tools & Equipment	\$	3,000.00	4% assumed inflationary increase over 2022 actuals
Training / Travel	\$	2,000.00	Assumes 2022 cost will not increase



Budget Development Step 9: Project Out Five Years





5 Year Projection

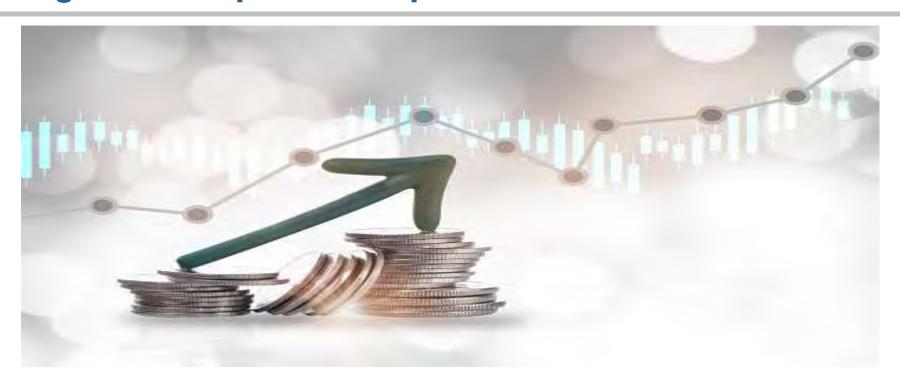
Town of Anywhere, WA	2017	2018	2019	2020	evious 4 yr. Average	2	2021	Annual Inflation Factor	2022	2023	2024	2025	2026
Operating Expense													
Salary/Wage	\$ 27,542.23	\$ 27,642.09	\$ 28,257.05	\$ 28,542.32	\$ 27,995.92	\$	30,000.00	1.00%	\$ 30,300 \$	30,603	\$ 30,909 \$	31,218	31,530
Overtime	\$ 1,065.86	\$ 945.73	\$ 1,116.44	\$ 1,098.56	\$ 1,056.65	\$	1,200.00	1.00%	\$ 1,212 \$	1,224	\$ 1,236 \$	1,249	1,261
Personnel Benefits	\$	\$ -	\$ 1,349.69	\$ 1,367.75	\$ 679.36	\$	1,450.00	2.00%	\$ 1,479 \$	1,509	\$ 1,539 \$	1,570	1,601
Operating Supplies	\$ 9,249.03	\$ 9,366.36	\$ 9,378.27	\$ 9,738.23	\$ 9,432.97	\$	9,500.00	0.00%	\$ 9,500 \$	9,500	\$ 9,500 \$	9,500	9,500
Lab Supplies	\$ 254.53	\$ 299.20	\$ 366.57	\$ 940.73	\$ 465.26	\$	1,000.00	0.00%	\$ 1,000 \$	1,000	\$ 1,000 \$	1,000	1,000
Equip Maint Supplies	\$ 7,546.65	\$ 5,286.84	\$ 8,827.86	\$ 5,726.76	\$ 6,847.03	\$	10,000.00	0.00%	\$ 10,000 \$	10,000	\$ 10,000 \$	10,000	10,000
Water Quality Oper Supplies	\$ 11,365.70	\$ 5,964.92	\$ 5,416.78	\$ 12,990.53	\$ 8,934.48	\$	13,000.00	0.00%	\$ 13,000 \$	13,000	\$ 13,000 \$	13,000	13,000
Cl2 System Supplies	\$ 792.00	\$ 1,308.32	\$ 1,942.87	\$ 2,732.47	\$ 1,693.92	\$	2,500.00	1.00%	\$ 2,525 \$	2,550	\$ 2,576 \$	2,602	2,628
Fuel Consumed	\$ 3,142.57	\$ 3,298.09	\$ 3,861.69	\$ 3,756.09	\$ 3,514.61	\$	4,000.00	0.00%	\$ 4,000 \$	4,000	\$ 4,000 \$	4,000	4,000
Small Tools & Equipment	\$ 2,674.34	\$ 2,709.90	\$ 9,901.39	\$ 3,245.78	\$ 4,632.85	\$	3,000.00	0.00%	\$ 3,000 \$	3,000	\$ 3,000 \$	3,000	3,000
Professional Services	\$ 876.00	\$ 422.00	\$ 15,718.20	\$ 18,766.78	\$ 8,945.75	\$	20,000.00	1.00%	\$ 20,200 \$	20,402	\$ 20,606 \$	20,812	21,020
Instrument Services	\$ 1,289.99	\$ 1,226.10	\$ 1,333.06	\$ 1,277.98	\$ 1,281.78	\$	1,300.00	0.00%	\$ 1,300 \$	1,300	\$ 1,300 \$	1,300	1,300
Combined Debt Service	\$ 631,291.43	\$ 630,224.31	\$ 629,156.13	\$ 628,089.14	\$ 629,690.25	\$	627,022.11	-1.00%	\$ 620,752	614,544	\$ 608,399 \$	602,315	596,292
Communications	\$ 3,022.11	\$ 3,101.49	\$ 3,985.89	\$ 3,508.02	\$ 3,404.38	\$	3,500.00	0.00%	\$ 3,500 \$	3,500	\$ 3,500 \$	3,500	3,500
Travel/Meals	\$ 2,941.09	\$ 2,765.56	\$ 1,859.53	\$ 1,587.14	\$ 2,288.33	\$	2,000.00	0.00%	\$ 2,000 \$	2,000	\$ 2,000 \$	2,000	2,000
Insurance	\$ 38,991.09	\$ 40,679.87	\$ 41,000.00	\$ 50,593.07	\$ 42,816.01	\$	50,000.00	1.00%	\$ 50,500 \$	51,005	\$ 51,515 \$	52,030	52,551
Utilities	\$ 8,709.00	\$ 8,678.99	\$ 8,871.08	\$ 9,498.08	\$ 8,939.29	\$	10,500.00	1.00%	\$ 10,605	10,711	\$ 10,818 \$	10,926	11,036
Repair & Maintenance	\$ 2,287.01	\$ 2,687.33	\$ 2,743.10	\$ 2,336.87	\$ 2,513.58	\$	2,500.00	0.00%	\$ 2,500 \$	2,500	\$ 2,500 \$	2,500	2,500
Miscellaneous (Dues, Fees etc)	\$ 5,489.00	\$ 5,025.66	\$ 5,047.33	\$ 5,027.96	\$ 5,147.49	\$	5,000.00	0.00%	\$ 5,000 \$	5,000	\$ 5,000 \$	5,000	5,000
DOH Fees and Permits	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$	5,500.00	0.00%	\$ 4,500 \$	5,500	\$ 4,500 \$	4,500	4,500
Snow removal and building upkeep.	\$ -	\$ -	\$ 8,615.35	\$ -	\$ 2,153.84	\$	6,000.00	0.00%	\$ 6,000 \$	6,000	\$ 6,000 \$	6,000	6,000
State Excise Tax	\$ 1,942.88	\$ 1,760.09	\$ 2,034.99	\$ 1,989.77	\$ 1,931.93	\$	1,800.00	0.00%	\$ 1,800 \$	1,800	\$ 1,800 \$	1,800	1,800
	\$ 764,772.51	\$ 757,692.85	\$ 795,083.27	\$ 797,114.03	\$ 778,666	\$	810,772		\$ 792,373	787,348	\$ 782,398 \$	777,521	772,718



5 Year Projection

Town of Anywhere, WA		2019		2020		<u>2021</u>		2022		evious 4 yr. Average	1	2023	Annual Inflation Factor	2024		2025	<u>2026</u>	2027	2028
Operating Expense			-																
Salary/Wage	S	153,700.00	S	155,800.00	S	158,200.00	S	160,300.00	S	157,000.00	5	166,712.00	4.00%	\$ 173,380	S	180,316	\$ 187,528	\$ 195,029	\$ 202,831
Personnel Benefits	S	49,200.00	_	51,300.00	S	53,100.00	-	67,200.00	S	55,200.00	S	69,888.00	4.00%	\$ 72,684	_	75,591	\$ 78,614	\$ 81,759	\$ 85,029
Insurance	S	32,400.00		39,000.00	S	40,500.00	S	42,300.00	S	38,550.00	\$	43,992.00	4.00%	\$ 45,752	_	47,582			\$ 53,523
Utilities	S	53,400.00		55,500.00	S	57,900.00	S	60,000.00	_	56,700.00	\$	62,400.00	4.00%	\$ 64,896	_	67,492		\$ 72,999	\$ 75,919
Chemicals	S	37,800.00		34,800.00	S	36,300.00	-	60,600.00	_	42,375.00	\$	63,024.00	4.00%	\$ 65,545	_	68,167		\$ 73,729	\$ 76,678
Repair & Maintenance	S	42,900.00	-	44,700.00	S	40,000.00	S	48,300.00	S	43,975.00	\$	50,232.00	4.00%	\$ 52,241	_	54,331		\$ 58,764	\$ 61,115
Small Tools & Equipment	S	10,100.00		12,500.00	S	8,000.00	S	13,100.00	S	10,925.00	5	13,624.00	4.00%	\$ 14,169	_	14,736		\$ 15,938	\$ 16,576
Fuel Consumed	S	3,151.00	_	3,350.00	S	3,800.00	S	4,000.00	_	3,575.25	\$	4,160.00	4.00%	\$ 4,326	-	4,499			\$ 5,061
Professional Services	S	16,450.00	-	17,205.00	S	18,905.00	S	19,602.00	_	18,040.50	\$	20,386.08	4.00%	\$ 21,202	_	22,050		\$ 23,849	\$ 24,803
Communications	S	6,150.00	-	6,258.00	\$	6,987.00	S	7,542.00	_	6,734.25	\$	7,843.68	4.00%	\$ 8,157	-	8,484		\$ 9,176	\$ 9,543
Travel/Meals	5	980.00	-	402.00	\$	450.00	5	1,125.00	_	739.25	S	1,170.00	4.00%	\$ 1,217	-	1,265			\$ 1,423
Professional Training	S	1,128.00	S	1,250.00	\$	1,400.00	S	1,425.00	_	1,300.75	S	1,482.00	4.00%	\$ 1,541	-	1,603		\$ 1,734	
Miscellaneous (Dues, Fees etc)	S	2,263.00	5	2,514.00	\$	2,780.00	S	3,215.00	\$	2,693.00	\$	3,343.60	4.00%	\$ 3,477	5	3,616		\$ 3,912	
Fees and Permits	S	2,866.40	S	3,259.00	\$	3,668.00	S	3,987.00		3,445.10	\$	4,146.48	4.00%	\$ 4,312	-	4,485		\$ 4,851	\$ 5,045
Excise Taxes	S	14,081.00	S	14,874.00	5	14,986.00	S	15,478.00	5	14,854.75	\$	16,097.12	4.00%	\$ 16,741	S	17,411		\$ 18,831	\$ 19,585
Combined Debt Service Reserve	S	5,000.00	S	5,000.00	\$	5,000.00	S	5,000.00	\$	5,000.00	S	5,000.00	0.00%	\$ 5,000	5	5,000	\$ 5,000	\$ 5,000	\$ 5,000
Short-Lived Asset Reserve	S	1,500.00	\$	1,500.00	\$	1,500.00	5	1,500.00	5	1,500.00	\$	1,500.00	0.00%	\$ 1,500	\$	1,500	\$ 1,500	\$ 1,500	\$ 1,500
Operating Reserve	S	1,200.00	\$	1,200.00	\$	1,200.00	S	1,200.00	\$	1,200.00	5	1,200.00	0.00%	\$ 1,200	_	1,200		\$ 1,200	\$ 1,200
Emergency Reserve	5	3,000.00	\$	3,000.00	S	3,000.00	5	3,000.00	5	3,000.00	5	3,000.00	0.00%	\$ 3,000	5	3,000	\$ 3,000	\$ 3,000	\$ 3,000
CIP Reserve	5	4,000.00	\$	4,000.00	\$	4,000.00	S	4,000.00	\$	4,000.00	\$	4,000.00	0.00%	\$ 4,000	-	4,000	\$ 4,000	\$ 4,000	\$ 4,000
	\$	441,269.40	\$	457,412.00	\$	461,676.00	\$	522,874.00	\$	470,808	5	543,201		\$ 564,341	\$	586,327	\$ 609,192	\$ 632,971	\$ 657,702

Budget Development Step 10: Calculate Revenue





Revenue

Factors Affecting Revenues

- Number of customers served
- Customer's water-use trends
- Rate changes
- Nonrecurring sales
- Weather
- Conservation
- Use restrictions
- Price elasticity
- Wholesale contractual terms

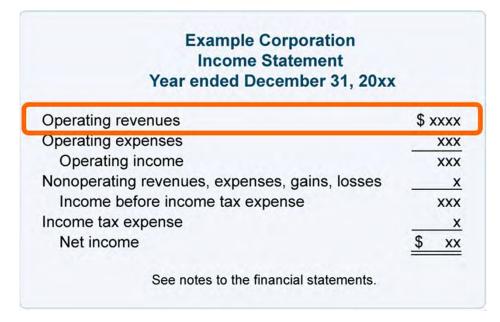
Factors Affecting Revenue Requirements

- Number of customers served
- Customer's water use trends
- Nonrecurring sales
- Weather Conservation
- Use restrictions
- Inflation
- Interest rates
- Wholesale contractual terms
- Capital finance needs
- Changes in tax laws
- Other changes in operating and economic conditions

Revenue – Operating Revenue

Income generated from providing service.

- Water base rates
- Water usage rates
- Late fees

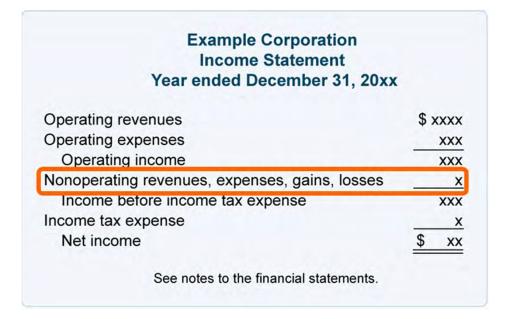




Revenue – Non- Operating Revenue

Income generated indirectly from providing service.

- Interest income
- Cell tower rental income
- Grants & loans





Budget Time Bomb

RCAC recommends:

- Only count on Operating
 Revenues
 to cover operating expenses
- Ignore Non-Operating Revenues





Deposits & Connection Fees

Deposits

- Collected to ensure that if a customer does not pay their bill, the system has money in reserve to cover expenses.
- Deposits should be set aside in an account so that the money can be refunded to customers if they discontinue service.

Connection Fees

- Fees that are charged to a customer or group of customers to help the system cover the costs of capital improvements that have already been paid for or are being paid for, or to cover the costs for additional connections.
- These fees are not refundable.



Budget Development Step 10: Create Budget Revenue

Line No.		Year 1	Year 2	Year 3	Year 4	Year 5
	REVENUE					
	Operating Revenues					
1	Service revenue—water sales*	\$813,000	\$826,000	\$839,000	\$852,000	\$864,000
2	Miscellaneous fees	2,000	2,000	2,000	2,000	2,000
3	Total operating revenues	815,000	828,000	841,000	854,000	866,000



Projected Revenues & Expenses

ne o.		Year 1	Year 2	Year 3	Year 4	Year 5
	REVENUE					
	Operating Revenues					
1	Service revenue—water sales*	\$813,000	\$826,000	\$839,000	\$852,000	\$864,000
2	Miscellaneous fees	2,000	2,000	2,000	2,000	2,000
3	Total operating revenues	815,000	828,000	841,000	854,000	866,000
	Nonoperating revenues					
1	Tap/connection fees	10,000	10,000	10,000	10,000	10,000
5	Interest income	10,000	10,000	10,000	10,000	10,000
3	Other revenue	5,000	5,000	5,000	5,000	5,000
7	Total nonoperating revenues	25,000	25,000	25,000	25,000	25,000
3	Total revenue	840,000	853,000	866,000	879,000	891,000
	EXPENDITURES					
•	Total O&M Expenses	459,000	473,000	537,000	555,000	570,000
)	Subtotal: Net operating income	381,000	380,000	329,000	324,000	321,000
	Debt Service					
1	Debt service—existing	150,000	150,000	150,000	150,000	150,000
2	Debt service—new	0	0	9,000	87,000	101,00
3	Total debt service	150,000	150,000	159,000	237,000	251,000
1	Rate financed capital costs	175,000	180,000	177,000	172,000	177,000
5	NET INCOME (LOSS) FROM OPERATIONS	56,000	50,000	(7,000)	(85,000)	(107,000
3	Plus: Beginning cash balance	200,000	256,000	306,000	299,000	214,000
7	Ending cash balance before reserves	256,000	306,000	299,000	214,000	107,000
	RESERVES		.17			
3	O&M reserve	115,000	118,000	134,000	139,000	143,000
•	Capital reserve	456,000	456,000	456,000	456,000	456,000
)	Total reserves	571,000	574,000	590,000	595,000	599,000
1	ENDING CASH BALANCE					0.000
	AFTER RESERVES	(\$315,000)	(\$268,000)	(\$291,000)	(\$381,000)	(\$492,000
	CUMULATIVE REVENUE AND RESERVE DEFICIENCY					
2	(line 21 divided by line 9) DEBT SERVICE COVERAGE	-39%	-32%	-35%	-45%	-579
3	(line 10 divided by line 13)	2.54	2.53	2.07	1.37	1.28

Ending Balance Before Reserves

Ending Balance After Reserves



Purpose of a 5 Year Budget

- A plan
- Data driven decisions
- Creates community awareness
- Necessary revenue requirements will be clearly shown

Budget Comparison

				Z W	ater Compan the Pe					
		-	Current Month 12/31/20XX		ear-to-Date 1 - 12/31/XY	An	nual Budget	YTD % of Budget	Remaining Balance	
Operati	ing Revenue									
	Water Base Rates	\$	6,000.00	\$	36,000.00	\$	72,000.00	50%	\$	36,000.00
	Water Usage Rates	\$	3,750.00	\$	22,500.00	\$	45,000.00	50%	\$	22,500.00
	Total Operating Revenues	\$	9,750.00	\$	58,500.00	\$	117,000.00		\$	58,500.00
Operati	ing Expenses									
	Bad Debt		-	\$	1,412.00	\$	1,412.00	100%		
	Insurance	\$	367.00	\$	2,200.00	\$	4,350.00	51%	\$	2,150.00
	Misc. Expenses	\$	350.00	\$	350.00	\$	1,000.00	35%	\$	650.00
	Office Costs	\$	754.00	\$	4,000.00	\$	8,200.00	49%	\$	4,200.00
	Accounting & Legal	\$	400.00	\$	600.00	\$	5,000.00	12%	\$	4,400.00
	Training Costs	\$	125.00	\$	700.00	\$	3,000.00	23%	\$	2,300.00
	Auto Expenses	\$	1,415.00	\$	6,341.00	\$	4,600.00	138%	\$	(1,741.00)
	Chemicals	\$	398.00	Ś	2,000.00	Š	4,300.00	47%	\$	2,300.00
	Materials & Supplies	\$	712.00	Ś	2,500.00	\$	7,500.00	33%	\$	5,000.00
	Repairs & Maintenance	Ś	3,233.00	Ś	5,500.00	Ś	5,700.00	96%	Ś	200.00
	Depreciation	Ś	374.00	Ś	2,237.00	\$	4,475.00	50%	\$	2,237.00
	Utilities	Ś	1,325.00	Ś	10,500.00	Ŝ	14,000.00	75%	Ś	3,500.00
	Salaries & Benefits	Ś	3,997.00	Ś	23,982.00	Ś	47,000.00	51%	Ś	23,018.00
	Total Operating Expenses	Ś	13,450.00	Ś	62,322.00	Ś	110,537.00	56%	Ś	48,214.00
	Debt Service			\$	5,225.00	S	5,225.00	100%		19
	Reserve Funding					Ś	1,000.00	0%	Ś	1,000.00
Total Ex	xpenses	Ś	13,450.00	Ś	67,547.00	Ś	116,762.00		Ś	49,214.00
	perating Income (Expense)									
	Interest Income	Ś	15.00	Ś	195.00	Ś	500.00	39%	Ś	305.00
	Hook-Up Fees	Š	125.00	Ś	500.00	S	350.00	143%	Ś	(150.00)
	Rent - Cellphone Tower									-
Total N	on-Operating Income	\$	140.00	Ś	695.00	Ś	850.00		Ś	155.00
	et Income	Ś	(3,420.00)	Ś	(7,657.00)	Ś	1,938.00		Ś	9,896.00





Balancing the Budget

Increase Revenues or Reduce Expenses



Balancing the Budget in the Short Term

- Customer Billing
- Accounts Receivable
- Paying Bills
- Put Money to Work



Balancing the Budget in the Long-Term

Leak Detection

Bulk Purchasing

Meters

Energy Audit

Fee Review

Consolidation



Examine Current Rate Structure

Did revenue exceed expenses in each of the last three years?

All scheduled debt payments made?

Reserve accounts fully funded?

Emergency and preventative maintenance costs covered?

Compliance with state drinking water standards and regulations?

Rate increased in the last three years?



Rates Should

- Cover all the costs associated with delivering water
- ☐ Fair & equitable
- Be used to support water utility only
- Transparent
- Easily understood
- Based on sound financial information
- Easy to administer



Base Rates and Flow Rates





Determining Base Rate

\$ 7,246.33	Divided by	200	_	\$ 36.23
Average Monthly Fixed Costs	Divided by	Average # of Customers	_	Fixed Costs Per Customer



Determining Flow / Usage Rate

\$ 6,258 0	Divided by	2 1,000	_	\$ 6.30
Variable Costs	Divided by	Average Total Water Usage (GALLONS)	_	Variable Cost Per 1,000 Gallons



Equitability



If your proposed rate structure spreads the cost of utility service equitably, then the percentage of revenue and percentage of usage will be approximately equal.



Inflationary Impact of Delaying Rate Adjustment

			Assı	ıme \$1.	00 1	Base rate	with	an ann	ual :	3% Com	pounde	ed Inc	cre as	e		
	Year 1 Year 2 Year 3		Year 4		Year 5		Year 6		Year 7		Accumulated Dollars Collected					
		Imple	me nti	ng Rate	e Inc	crease Ir	nmed	liately -	19%	6 Increa	se Froi	m Ye	ar 1 t	o Year	7	
Rate	\$	1.00	\$	1.03	\$	1.06	\$	1.09	\$	1.13	\$	1.16	\$	1.19	\$	7.66
			Wa	iting 4	Year	rs to Inc	rease	Rates	- 26	% From	Year 1	to Y	ear 7			
Rate	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.19	\$	1.22	\$	1.26	\$	7.66
			Wa	iting 5	Year	rs to Inci	ease	Rates	- 35	% From	Year 1	to Y	ear 7	7		
Rate	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.31	\$	1.35	\$	7.66
			Wa	iting 6	Year	rs to Inci	rease	Rates	- 66	% From	Year 1	to Y	ear 7	7		
Rate	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.00	\$	1.66	\$	7.66



Water & Wastewater 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







We Appreciate You!





WA Dept. of Health



https://www.doh.wa.gov/communityandenvironment/drinkingwater



Empowering local governments

https://mrsc.org/Home.aspx

https://mrsc.org/Home/Explore-Topics/Finance/Budgets/Budgeting.aspx



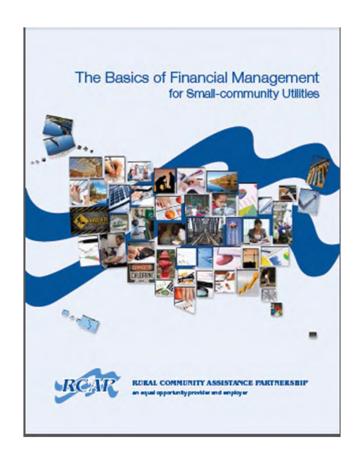
Office of the Washington State Auditor Pat McCarthy

https://sao.wa.gov/



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https://www.awwa.org/Resources-Tools/Resource-Topics/Affordability#9773397-related-resources



https://www.rcap.org/managerial-financial/basics-of-financial-management-guidebook/

Formulate Great Rates

The Guide to Conducting a Rate Study for a Small System





https://rcap.org/wp-content/uploads/2021/11/RCAP_RatesGuide-2021-FIN-LO-1.pdf

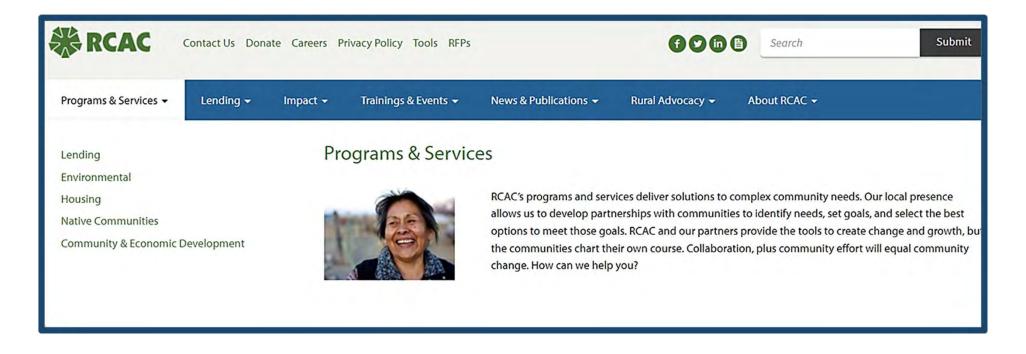


https://wacities.org/news/2022/08/23/the-top-10-things-we-learned-at-awc-s-2022-budget-workshop

- Asset Management
- > Fundamentals of Finances
- Cost-of-Service Analysis
- GIS Mapping
- Board Succession Planning



https://www.events.rcac.org/assnfe/SearchCourses.asp



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