



Determining Affordability of Utility Rates – According to EPA

Rural Community Assistance Corporation
www.rcac.org

Infrastructure Assistance Coordinating Council - IACC
Wenatchee Convention Center
October 23rd 2013
8:00 am Session S11

Welcome!

Jim Wilson & Dan Bannier



Rural Community Assistance Corporation

The RCAP Network



Western RCAP
Rural Community Assistance Corporation
916/447-2854
www.rcac.org

Midwest RCAP
Midwest Assistance Program
952/758-4334
www.mrap-nc.org

Southern RCAP
Community Resource Group
479/443-3700
www.crg.org

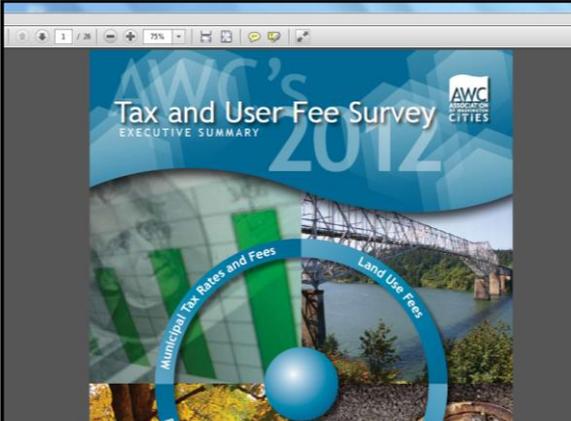
Northeast RCAP
RCAP Solutions
903/688-1969
www.rcapsolutions.org

Great Lakes RCAP
WSOS Community Action Commission
800/775-9767
www.grcap.org

Southeast RCAP
Southeast Rural Community Assistance Project
866/628-3731
www.southeastrcap.org

Rural Community Assistance Partnership
800/321-7227 www.rcap.org

RCAP
"Improving the quality of life in rural communities"



Part IV
Utility Rates

Who responded?
Two hundred and twenty four cities (2012) responded to the Tax and User Fee Survey on utility rates. The 224 responding cities represent 87% of Washington's incorporated population. Some of the municipalities responding do not provide water, sewer and/or stormwater services.

This summary provides an analysis of city utility rates, unless otherwise noted. It is a representation of survey data, and therefore only reflects the rates of those cities responding to the survey.

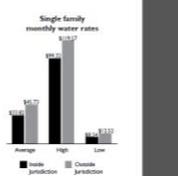
New customer fees
New customer fees reflect the charge to connect a new single-family residence to water, sewer or stormwater systems. New customer charges can be difficult to interpret as a survey questionnaire because there are many different rates for the charges and they can vary within a single jurisdiction. More data can be found online.

Water system
All rates reported in this summary are based on the average for a single-family residence based on the rate for 1,000 cubic feet (cf) of water. Water rates are read on a monthly basis by 78% of respondents and 10% monthly by 25%. Most jurisdictions in colder States/Washington do not read meters during the winter. Slightly less than 64% of respondents offer discounts to senior and/or other low-income customers.

Water rates and consumption

Average residential monthly rate inside jurisdiction (1,000 cf)	\$33.82
Average residential monthly rate outside jurisdiction (1,000 cf)	\$45.73
Monthly consumption, single-family residential, per residence	Average 134 of Median: 800 cf

Single family monthly water rates



Block rates can either increase to encourage conservation, or decrease to give price breaks.

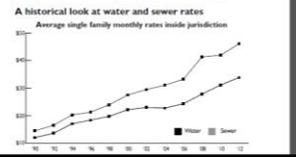
Water Rate Structures
Cities use three primary types of water rate structures:

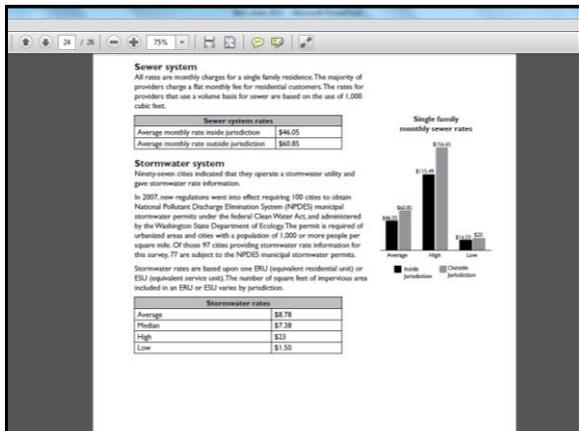
- Flat - one charge regardless of the amount of water used;
- Uniform block - a base charge plus a fixed rate per unit of water used above the allowed base; and
- Block - a base charge plus a variable rate per unit of water used above the allowed base.

Block rates can either increase to encourage conservation, or decrease to give price breaks to customers who use a large amount of water. A small number of providers have seasonal block rates, while others use a combination of both fixed and unseasoned structures for residential customers.

Water rate structures	% of cities reporting
Flat	11.7%
Uniform block	21.5%
Increasing	41.3%
Decreasing	5.2%
Seasonal	4%
No response	16.6%

A historical look at water and sewer rates
Average single family monthly rates inside jurisdiction





Affordability...

...Says who?

- Federal Government (USEPA, SDWA & CWA)
- State Primacy Agencies (SRF's: DOH & ECY)
- Funding Institutions (USDA-RD, CDBG, PWTf)
- Elected Officials ("social" objectives)
- Customers (rates are already too high)
- AARP
- American Water Works Association (AWWA)
- Water Environment Federation (WEF)

US Environmental Protection Agency (USEPA)

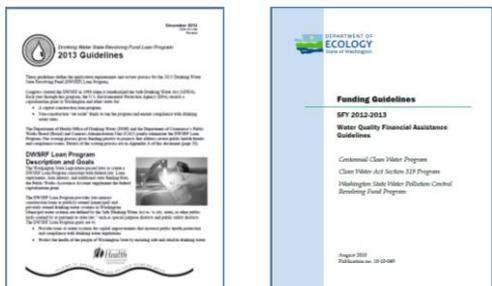
- The 4% Benchmark for Affordability (*CBO)
2% water & 2% wastewater
- User rates as a percentage of MHI on a systemwide basis
Point-of-use treatment devices as "compliance technologies"
- Increase in 2002!
 - 5% (combined utilities)
 - 2.5% water & 2.5% wastewater
 - 2% = medium burden
 - 2.5% = affordability concerns

*Congressional Budget Office

Determining Affordability must start here...

- Mission Statement/Vision
- GOALS
- POLICY (to effectively run your business!)
- **ALL**, at a minimum, must meet or exceed federal & state regulations as related to the operation of the utility!.....TMF

Primacy Agencies...



Calculating "Affordability"...

1. Residential user fees
 - Now & After Construction
2. Median Household Income (MHI)
 - American Community Survey (ACS)
US Census Bureau
<http://factfinder2.census.gov>

DATE DUE 02/15/2013	SEE REVERSE FOR MORE INFORMATION	PLEASE WRITE ACCOUNT NUMBER ON CHECK & REMIT TO CITY OF PALOUSE 120 E. MAIN ST. • PO BOX 248 • PALOUSE, WA 99161	FIRST U.S. PO PAL PER
SERVICE ADDRESS		ADDRESS CORRECTION REQUESTED	
120 CANNON W			
METER READINGS		BILLING PERIOD Jan. 2013 charges	
PRESENT	PREVIOUS	CONSUMPTION	
No Reading	43760		01/31/2013
Water:	23.00		
Sewer:	25.00		
Sewer Overage:			
Water Sys:	3.00		
Sewer Reserve:	5.00		
Late Fee:	2.82		
Current Charges:	58.82		
Previous Balance:	-4.03		
Payments:			
Adjustments:			
Balance Due:	54.79		
ACCOUNT NUMBER	893		

\$23.00
\$3.00
\$1.56
\$27.56

workers		
Unpaid family workers	0	+/-92
INCOME AND BENEFITS (IN 2011 INFLATION-ADJUSTED DOLLARS)		
Total households	370	+/-58
Less than \$10,000	32	+/-21
\$10,000 to \$14,999	14	+/-14
\$15,000 to \$24,999	30	+/-15
\$25,000 to \$34,999	33	+/-21
\$35,000 to \$49,999	106	+/-39
\$75,000 to \$99,999	75	+/-33
\$100,000 to \$149,999	32	+/-15
\$150,000 to \$199,999	11	+/-13
\$200,000 or more	0	+/-92
Median household income (dollars)	46,324	+/-4,426
Mean household income (dollars)	54,264	+/-6,471
With earnings	288	+/-48
Mean earnings (dollars)	54,529	+/-5,685
With Social Security	99	+/-27
Mean Social Security income (dollars)	18,112	+/-2,421
With retirement income	83	+/-27
Mean retirement income (dollars)	16,433	+/-4,181

Median Household Income (MHI)

– Determined by the middle value of the total list of values that were divided into two parts.

Odd		Even	
1	\$ 12,000	1	\$ 12,000
2	\$ 13,000	2	\$ 13,000
3	\$ 17,000	3	\$ 17,000
4	\$ 23,000	4	\$ 23,000
5	\$ 24,000	5	\$ 24,000
6	\$ 28,000	6	\$ 28,000
7	\$ 37,000	7	\$ 37,000
8	\$ 43,000	8	\$ 43,000
9	\$ 45,000	9	\$ 45,000
10	\$ 65,000	10	\$ 65,000
11	\$ 150,000	11	\$ 150,000
		12	\$ 160,000

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120 CANNON W			
METER READINGS		BILLING PERIOD Jan. 2013 charges	
PRESENT	PREVIOUS	CONSUMPTION	
No Reading	43760		01/31/2013
Water:	23.00		
Sewer:	25.00		
Sewer Overage:			
		ACCOUNT NUMBER	BALANCE DUE

MHI					
\$ 46,324	0.71%	1.0%	1.5%	2.0%	2.5%
Base Rate	\$ 27.56	\$ 38.60	\$ 57.91	\$ 77.21	\$ 96.51
Annual Base	\$ 330.72	\$ 463.24	\$ 694.86	\$ 926.48	\$ 1,158.10
\$ change	0	\$ 11.04	\$ 30.35	\$ 49.65	\$ 68.95

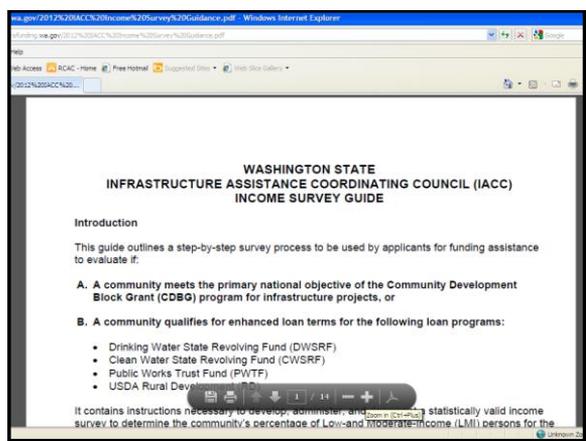
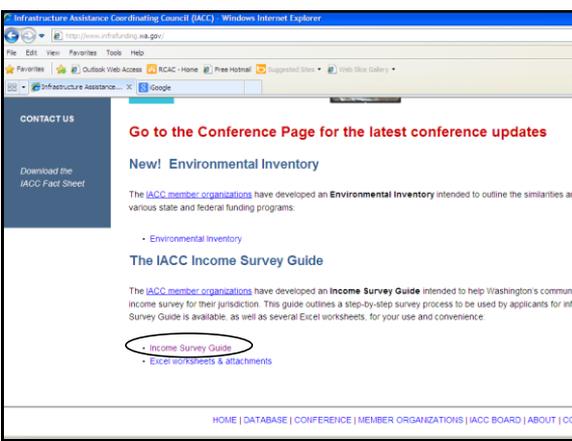
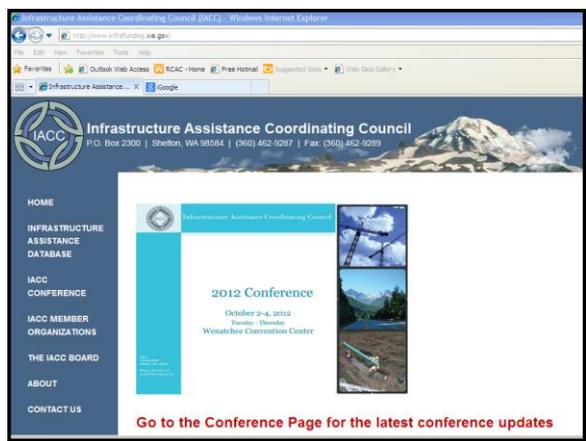
\$23 + \$3 + \$1.56 (Utility Tax) = \$27.56
\$27.56 x 12 = \$330.72 (annual base rate)
\$330.72 / (MHI) \$46,324 = 0.71% aka "Affordability"

Natural Gas & Electricity = \$133.89
\$133.89 x 12 = \$1,606.68 (annual Avista bill)
\$1,606.68 / (MHI) \$46,324 = 3.47%

What is an Income Survey?

- **Tool** used to evaluate funding assistance opportunities in Washington State.

Department of Commerce
Innovation is in our nature.



Funding Program	Public Works Trust Fund (PWTF)	USDA Rural Development (RD)	Community Development Block Grant (CDBG)
Drinking Water State Revolving Fund (DWSRF) Clean Water State Revolving Fund (CWSRF) Public Works Trust Fund (PWTF) Department of Commerce, Public Works Board Wenatchee (360) 725-5015 http://www.ecy.wa.gov/office_of_the_governor/pwtf/	Department of Commerce, Public Works Board Wenatchee (360) 725-5015 http://www.ecy.wa.gov/office_of_the_governor/pwtf/	USDA Rural Development (RD) Wenatchee (360) 725-5015 http://www.usda.gov/rd/	Department of Commerce, CDBG Wenatchee (360) 725-5015 http://www.ecy.wa.gov/office_of_the_governor/cdbg/
Differences in Survey Requirements Alternative WRF debt services: Other funding source's approval/ administration: Barney income question: household income count Acceptable Taxation: income sources must be calculated within past 3 years and meet funding agency's guidelines. CDBG - income survey agencies conducted or to be conducted by Ecology Third-party surveys: required and must be approved prior to conducting survey	Eligibility: To determine median household income (MHI) for the survey area, 100 percent must be based on Census and ACS data. Alternative WRF debt services: 100% WRF percent calculations based on Census and ACS data. Acceptable Taxation: Surveys conducted after Jan 2011 with retroactive change authorized may be accepted, and MHI income is 2010 Census (or later) data (2011).	Eligibility: To determine median household income (MHI) for the survey area, 100 percent must be based on Census and ACS data. Alternative WRF debt services: 100% WRF percent calculations based on Census and ACS data. Acceptable Taxation: Surveys conducted after Jan 2011 with retroactive change authorized may be accepted, and MHI income is 2010 Census (or later) data (2011).	Eligibility: To determine percent of low and moderate income (LMI) persons in survey area, 100 percent must be based on Census and ACS data. Alternative WRF debt services: 100% WRF percent calculations based on Census and ACS data. Acceptable Taxation: Surveys conducted after Jan 2011 with retroactive change authorized may be accepted, and MHI income is 2010 Census (or later) data (2011).

Why or Why NOT

WHY

- To challenge the American Community Survey (ACS)...aka, Census Data
- To determine hardship (ECY & USDA-RD)
 - USDA-RD, State Non-metropolitan income \$60,049
- To determine affordability index (DOH & PW)
- To determine LMI (CDBG **only**)
- To determine MHI (everybody else)

U.S. Census Bureau
AMERICAN FactFinder

DP03 | SELECTED ECONOMIC CHARACTERISTICS
2007-2011 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates Estimates Program that produces and disseminates the official estimates of the population for the nation, state estimates of housing units for states and counties.

Subject	Estimate	Margin of Error	Percent	Percent
Starbuck town, Washington				

workers			
Unpaid family workers	0	+/-02	0.0
INCOME AND BENEFITS (IN 2011 INFLATION-ADJUSTED DOLLARS)			
Total households	46	+/-22	
Less than \$10,000	4	+/-7	8.7
\$10,000 to \$14,999	17	+/-15	37.0
\$15,000 to \$24,999	2	+/-6	4.3
\$25,000 to \$34,999	9	+/-12	19.6
\$35,000 to \$49,999	5	+/-5	10.9
\$50,000 to \$74,999	3	+/-5	6.5
\$75,000 to \$99,999	6	+/-9	13.0
\$100,000 to \$149,999	0	+/-02	0.0
\$150,000 to \$199,999	0	+/-02	0.0
\$200,000 or more	0	+/-02	0.0
Median household income (dollars)	23,750	+/-21,497	
Mean household income (dollars)	33,474	+/-16,553	
With earnings			
Mean earnings (dollars)	54,608	+/-34,461	
With Social Security	43	+/-21	93.3
Mean Social Security income (dollars)	12,626	+/-4,005	
With retirement income	28	+/-19	60.3
Mean retirement income (dollars)	8,100	+/-3,793	

Why or Why NOT

WHY NOT.....or considerations to address

- If you agree with the American Community Survey
- If the survey & funding process is not fully understood by the elected officials
 - Those with fiduciary responsibilities
 - Survey results come back HIGHER
- Low or lack of community support
 - Especially in low populated communities

Column A Number of Households in the Area	Column B Required Sample Size as Percentage Needed to Validate the Survey	Column C Equivalent Sample Size Range to Validate the Survey
1-49	93%	1-45
50-55	90%	45-49
56-63	87%	49-55
64-70	85%	54-59
71-77	84%	60-65
78-99	80%	62-79
100-115	78%	78-90
116-153	72%	83-110
154-180	69%	106-124
181-238	67%	121-159
239-308	57%	136-176
309-398	50%	154-199
399-650	38%	152-247
651-1,200	25%	163-300
1,201-2,700	13%	156-351
2,701 or more	10%	270 or more

Why or Why NOT

WHY NOT.....or considerations to address

- If you don't have "approved" planning documents
- If you haven't identified a primary funder
- If you expect to receive 50% or 100% subsidy
- If you expect limited involvement during the process
- Results could lead to a PR backfire
 -Told you so!

Why or Why NOT

WHY NOT.....or considerations to address

- District doesn't have counties support
 - (seeking only CDBG funds)
- You haven't done your homework
 - You haven't estimated user rates
 - Including project costs
 - Cost Benefit Analysis
 - DWSRF, Low rates & Category 5
 - CDBG >51% LMI
 - USDA-RD (Under order from regulatory agency & poverty level)

System Reserves

- What presents a better “picture bubble”?
Water Reserve Fund : **\$110,000**



We can't possibly need this much money!!

System Reserves

Water Reserve Fund

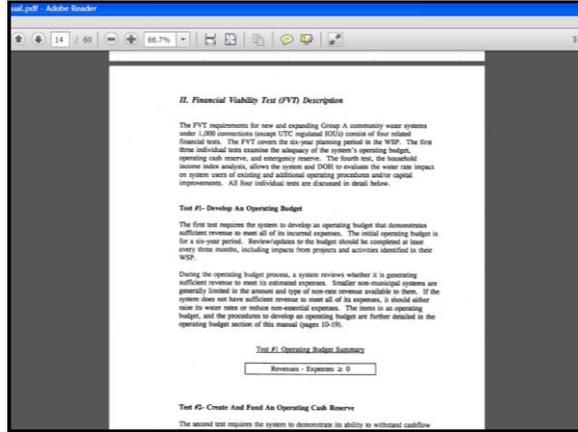
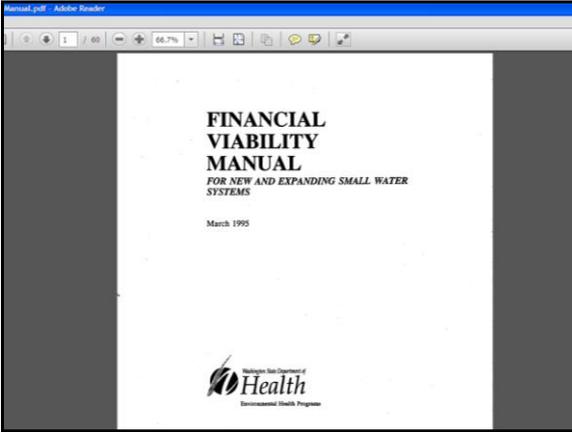
Operating Reserve:	\$12,000
Equipment Replacement:	\$29,000
Emergency Reserve:	\$20,000
Loan Repayment Reserve:	\$16,800
Planning Documents:	<u>\$32,200</u>
	\$110,000

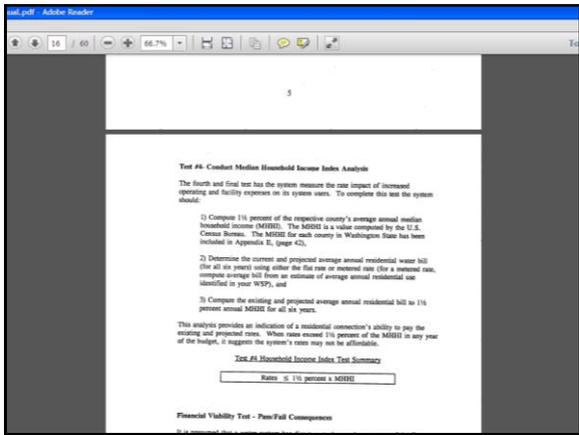
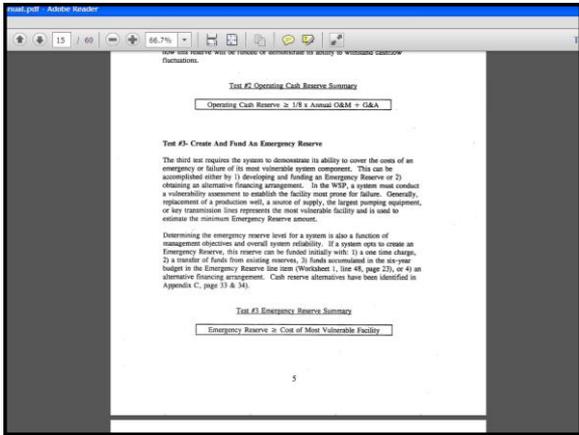
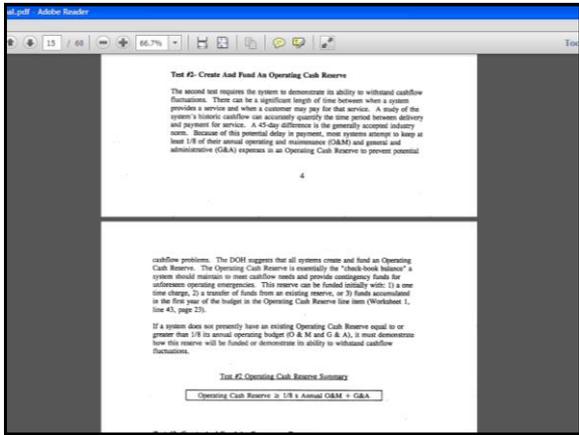
Funding 4 Key Accounts

- Operations & Maintenance
 - Cash Operating Reserve
- Replacement Reserves
 - Asset Management
 - Short term vs. long term
- Emergency Reserves
- Debt Service

Funders like to see...

- ...whether borrowing or submitting annual reports
- TMF Capacity
 - Ability to manage money & operate the facility
- Audit Reports
- Operating Ratio
 - Total Operating Income/*O&M
 - (*less depr., interest & debt service)
- Coverage Ratio
 - Annual Gross Revenue less O&M/Annual debt service
 - ❖ *Ratio's should be greater than 1.0*





Asset Management: A Handbook for Small Water Systems

One of the Simple Tools for Effective Performance (STEP) Guide Series

Introduction to the System Inventory Worksheet

The following System Inventory Worksheet will help you:

- Identify all of your system's assets;
- Record the condition of your assets;
- Record the service history of your assets;
- Determine your assets' adjusted useful lives;
- Record your assets' ages; and,
- Estimate the remaining useful life of each of your assets. Usually, there are two steps to estimating useful life.

1. Determine the expected useful life by using the manufacturer's recommendations or the estimates provided in the box to the right. Adjust these numbers based on the specific conditions and experiences of your system.
2. Calculate an adjusted useful life by taking into account the service history and current condition of your asset.

Two copies of the worksheet are provided. The first copy is followed by instructions that will help you understand how to complete it. The second worksheet is an example. Appendix A has blank worksheets that you can photocopy and use.

Asset	Expected Useful Life (in years)
Intake Structures	35-45
Wells and Springs	25-35
Galleries and Tunnels	30-40
Chlorination Equipment	10-15
Other Treatment Equipment	10-15
Storage Tanks	30-40
Pumps	10-15
Buildings	20-40
Electrical Systems	7-10
Transmission Mains	35-40
Distribution Pipes	35-40
Valves	35-40
Blow-off Valves	35-40
Backflow Prevention	35-40
Meters	10-15
Service Lines	30-50
Hydrants	40-60
Lab/Monitoring Equipment	5-7
Tools and Shop Equipment	10-15
Landscaping/Grading	40-60
Office Furniture/Supplies	10
Computers	5
Transportation Equipment	10

Note: These numbers are ranges of expected useful lives drawn from a variety of sources. The ranges assume that assets have been properly maintained.

United States Environmental Protection Agency

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Drinking Water

Green Infrastructure

Septic Systems

Sustainable Infrastructure

Water Security

Wastewater

WaterSense

CUPSS is a free, easy-to-use, asset management tool for small drinking water and wastewater utilities. CUPSS provides a simple, comprehensive approach based on EPA's highly successful Simple Tools for Effective Performance (STEP) Guide series. Use CUPSS to help you develop:

- A record of your assets;
- A schedule of required tasks;
- An understanding of your financial situation;
- A tailored asset management plan.

This website is designed for CUPSS users, trainers and all others involved with small drinking water or wastewater utilities. Information is presented on the following topics:

- Basic Information – Get answers to frequent questions about CUPSS and learn how CUPSS is designed, how it works and what it can do for you.
- Case Studies – Read about the experiences of small drinking water and wastewater utilities as they take on the challenge of asset management.
- CUPSS Software – Download a copy of the CUPSS application or request a copy of the installation CD. You can also register as a CUPSS user to receive updates and notification of training.

Quick Links

- [CUPSS Spring Training Dates](#)
- [CUPSS v1.3.7 Released](#)
- [CUPSS Self-Paced Training](#)
- [Get a copy of CUPSS](#)
- [Register your CUPSS CD](#)
- [Learn about asset management](#)
- [Find training near you](#)
- [Sign up to be a trainer](#)

Excel spreadsheet showing financial data for Martin Creek Community Association. Summary: 5/10/2013, 49 units, Total Equity \$315,428, Connection Fee \$6.4. Max Payments Occur Thru Year 23, Revenue in year 36 above listed needs \$65,439, Reserve Cash Applied \$30,000. Current Year: 2013.

Asset and Description	RCAC V13	Year	Install Date	Est. Effective Life	Condition Rating	Critical Number	Calculated Replacement Life		Calc. Remain. Life	Original Cost	Book Value Original \$	Replacement Cost \$	Infl. Rate	Intfr. Rate	Accum. Loss of Value (Dep)	Debt Grant
							1 to 5	1 to 8								
#1 Well 300' Deep 2001		1978	60	1	2	40.0	\$35,000	\$35,000	\$50,000	3.0%	\$16,667	\$0				
Well #1 Pump		2001	10	2	1	4.0	\$1,000	\$1,000	\$5,000	3.0%	\$3,000	\$0				
Well #1 Controls		2001	10	2	1	4.0	\$1,000	\$350	\$1,000	3.0%	\$600	\$0				
#2 Well 580' Deep 2005		2001	60	1	2	48.0	\$35,000	\$35,000	\$50,000	3.0%	\$10,000	\$0				
Well #2 Pump		2005	10	2	1	5.0	\$5,000	\$1,500	\$5,000	3.0%	\$2,500	\$0				
Well #2 Controls		2005	10	2	1	4.0	\$1,000	\$350	\$1,000	3.0%	\$600	\$0				
Tank to Hillside Court, Pipe size 4", PVC at Hillside under Incubation Bay to Crestview, Pipe size 4" PVC at 800'		1978	60	1	5	25.0	\$30,420	\$35,666	\$30,420	3.0%	\$17,745	\$0				
Crestview down hill to Dry Dock PRS, Pipe size 4" PVC at 130'		1978	60	1	5	25.0	\$22,860	\$26,802	\$22,860	3.0%	\$13,335	\$0				
Hillside South to Tank #1, Pipe size 3" PVC		1978	60	1	5	25.0	\$41,880	\$48,750	\$41,880	3.0%	\$24,255	\$0				
Hillside South to Tank #2, Pipe size 3" PVC		1978	60	1	5	25.0	\$41,880	\$48,750	\$41,880	3.0%	\$24,255	\$0				

Excel spreadsheet showing financial data for Martin Creek AS11.131. Summary: 0/2013, 49 units, Total Equity \$315,428, Connection Fee \$6.437. Monthly Cost Per Unit to Reserves: \$9.83, Annual \$5 to Reserves: \$5,780, Payments over 36 years: \$185,962. Revenue in year 36 above listed needs: \$65,439, Reserve Cash Applied: \$30,000.

Est. Effective Life	Condition Rating	Critical Number	Calculated Replacement Life		Calc. Remain. Life	Original Cost	Book Value Original \$	Replacement Cost	Infl. Rate	Intfr. Rate	Accum. Loss of Value (Days)	Debt and Grants	Equity	Cash Replace ?	Savings ACCT Interest	Future Cost
			1 to 10	Tab A												
60	1	2	40.0	2	40.0	\$35,000	\$35,000	\$50,000	3.0%	\$16,667	\$0	\$33,333	X	0.5%	\$165,102	
10	2	1	4.0	1	4.0	\$1,000	\$1,000	\$5,000	3.0%	\$3,000	\$0	\$2,000	X	0.5%	\$2,000	
10	2	1	4.0	1	4.0	\$1,000	\$350	\$1,000	3.0%	\$600	\$0	\$400	X	0.5%	\$400	
60	1	2	48.0	2	48.0	\$35,000	\$35,000	\$50,000	3.0%	\$10,000	\$0	\$40,000	X	0.5%	\$204,613	
10	2	1	5.0	1	5.0	\$5,000	\$1,500	\$5,000	3.0%	\$2,500	\$0	\$2,500	X	0.5%	\$2,500	
10	2	1	4.0	1	4.0	\$1,000	\$350	\$1,000	3.0%	\$600	\$0	\$400	X	0.5%	\$60,693	
60	1	5	25.0	5	25.0	\$30,420	\$35,666	\$30,420	3.0%	\$17,745	\$0	\$12,675	X	0.5%	\$63,883	
60	1	5	25.0	5	25.0	\$22,860	\$26,802	\$22,860	3.0%	\$13,335	\$0	\$9,525	X	0.5%	\$47,864	
60	1	5	25.0	5	25.0	\$41,880	\$48,750	\$41,880	3.0%	\$24,255	\$0	\$17,325	X	0.5%	\$87,059	
60	1	5	25.0	5	25.0	\$41,880	\$48,750	\$41,880	3.0%	\$24,255	\$0	\$17,325	X	0.5%	\$87,059	

Security Vulnerability Self-Assessment Guide for Water Systems

RCAP Regional Offices: If you need technical assistance to complete your Security Vulnerability Assessment, please contact one of our regional offices listed below.

Regional Office	Contact Name	Phone Number	Website
RCAP National Office	888-251-7622	www.rcap.org	
Western RCAP	888-251-7622	www.rcap.org	
Southwest RCAP	888-251-7622	www.rcap.org	
Central RCAP	888-251-7622	www.rcap.org	
Southern RCAP	888-251-7622	www.rcap.org	
Northern RCAP	888-251-7622	www.rcap.org	
Midwest RCAP	888-251-7622	www.rcap.org	

Prepared for the Rural Community Assistance Authority (RCAP) National Network by Rural Community Assistance Cooperative, National RCAP Rural Safety and Security Education Program.

Emergency Response Planning Guide for Public Drinking Water Systems

RCAP Regional Offices: If you need technical assistance to complete your Emergency Response Plan, please contact one of our regional offices listed below.

Regional Office	Contact Name	Phone Number	Website
RCAP National Office	888-251-7622	www.rcap.org	
Western RCAP	888-251-7622	www.rcap.org	
Southwest RCAP	888-251-7622	www.rcap.org	
Central RCAP	888-251-7622	www.rcap.org	
Southern RCAP	888-251-7622	www.rcap.org	
Northern RCAP	888-251-7622	www.rcap.org	
Midwest RCAP	888-251-7622	www.rcap.org	

Prepared for the Rural Community Assistance Authority (RCAP) National Network by Rural Community Assistance Cooperative, National RCAP Rural Safety and Security Education Program.

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WEDNESDAY, FEBRUARY 27, 2013

About Us... Boise State University is the site of the Environmental Finance Center (EFC) for US EPA Region 10. Our mission is to provide help to those...

Upcoming Events We will soon be launching the NEW dashboard application, and will be training operators in Washington, Oregon, Alaska, and Idaho on the...

EFC Training

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Plan2Fund
Plan2Fund Objective Prioritization Tool (OPT)
Guidebook of Financial Tools
Directory of Watershed Resources
Capacity Tracker
Ratio 8
Financial Analysis Calculator for Exemptions(FACE)
Utility Rate Design with RATECHECKUP
Utility Rate Design with Rate Checkup-Kansas Model
Utility Budgeting with Utility Budgeting Worksheet
SDC Calculator
Asset Management with CapFinance

target constraints make environmental projects even higher to fund. EFC's Fund database links you to available resources today.

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Upcoming Events We will be training operators in Washington, Oregon, Alaska, and Idaho on the new and improved application. Circuit Riders for the National Rural Water Association, already...

EFC Training



Sample Community

Base Rate
4,000 cu. Ft. = 29,920 gallons @ \$17.35

Commodity Rate
100 cu. Ft. = 748 gallons
Residential @ \$0.20/100 cu. Ft.
Comm. Bus. @ \$0.14/100 cu. Ft.

Sample Community

<p>4,000 cu. Ft. Actual ERU 1,957 (Equivalent Residential User)</p> <p>Residential Use:</p> <ul style="list-style-type: none"> Never: 30% Sometimes: 69% Always: 1% <p>Revenue by Class:</p> <ul style="list-style-type: none"> Residential: 78% \$ 158,224 Comm. / Buss.: 22% \$ 29,565 Total: \$ 187,789 	<p>2,000 cu. Ft. Actual ERU 1,957 (Equivalent Residential User)</p> <p>Residential Use:</p> <ul style="list-style-type: none"> Never: 17% Sometimes: 83% Always: 1% <p>Revenue by Class:</p> <ul style="list-style-type: none"> Residential: 82% \$ 164,372 Comm. / Buss.: 18% \$ 30,149 Total: \$ 194,521
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+ \$6,732

Sample Community

	2010 Actual	2011 Actual	2012 Budget
Base rate \$17.35 4000 cu. Ft.			
Residential \$0.20/100 cu. Ft.			
Comm.-Bus. \$0.14/ 100 cu. Ft.			
Revenue	\$ 159,908	\$ 185,154	\$ 179,537
Expense	\$ 220,375	\$ 215,000	\$ 233,950
Actual Profit/Loss	\$ (60,467)	\$ (29,846)	\$ (54,413)
Base Rate	\$ 14.70	\$ 17.35	\$ 17.35
Residential Usage Rate per 100 cu.ft.	\$ 0.20	\$ 0.20	\$ 0.20
Commercial/Business Usage Rate per 100 cu.ft.	\$ 0.14	\$ 0.14	\$ 0.14
Operating Ratio	0.73	0.86	0.77

Questions?