This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



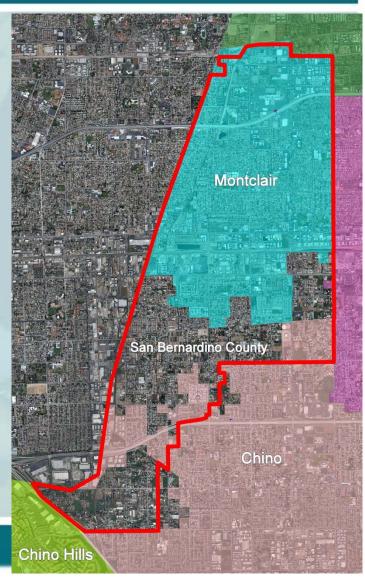
Budget Rates on a Budget: A Guide for Smaller Agencies



Who We Are

- County Water District
 - Retail & Wholesale Service
 - ➤ 134,000 Population

- - ➤ City of Montclair
 - ➤ City of Chino (portions)
 - ➤ San Bernardino County



Rate Development Objectives

- Fund Operations, Maintenance and Capital Replacement Programs
- Maintain Adequate Reserves
- Meet Established State Water Use Efficiency Requirements
- ♦ Gradual, Multi-Year Implementation of Rate Increases to Avoid "Rate Shock"
- Mitigate Tiered Rate Impact on Large Lots
- Maintain Adequate Funding with Reduced Demand and Separate Conservation Fund



Water Budget Concepts

Inclining Block Rate

More Water Use = Higher Cost per Unit



♦ "Budget"

- Generous Allocation for Indoor and Outdoor Needs
- > Different for Each Customer and Billing Period

Single-Family Residential

- > Similar Water Use Requirements
- Residential Accounts Served by Single Meter
- May Adjust Future Allocations, Customers

Tier 1 – Indoor Allocation

♦ 4 Persons Per Household (pph)

➤ City of Montclair 3.854 pph*

➤ City of Chino 3.586 pph*

➤ SB County 3.291 pph*

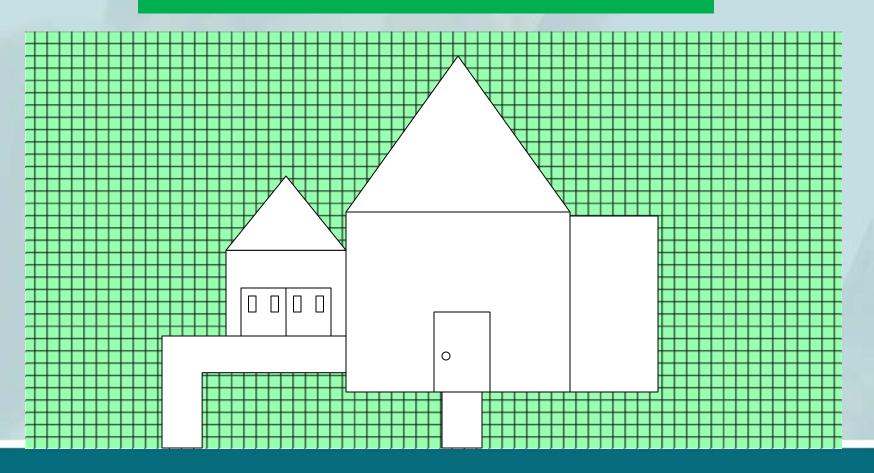
*California Department of Finance Housing Estimates, 2009

♦ 75 Gallons Per Day (gpd) Per Person

➤ Average Indoor Use 69.3 gpd**

**AWWARF Residential End-Uses of Water Study, 1999

Tier 2 – Outdoor Allocation



Tier 2 – Outdoor Allocation

- ◆ Up to 54 inches of Water per Square Foot of Landscaped Area
 - ➤ Pomona CIMIS Station 48 inches per year*

 *California Irrigation Management Information System (CIMIS)
- Seasonal Adjustment

Jan-Feb	Mar-Apr	May-Jun	Jul-Aug	Sep-Oct	Nov-Dec	Total
10%	7%	13%	25%	25%	20%	100%

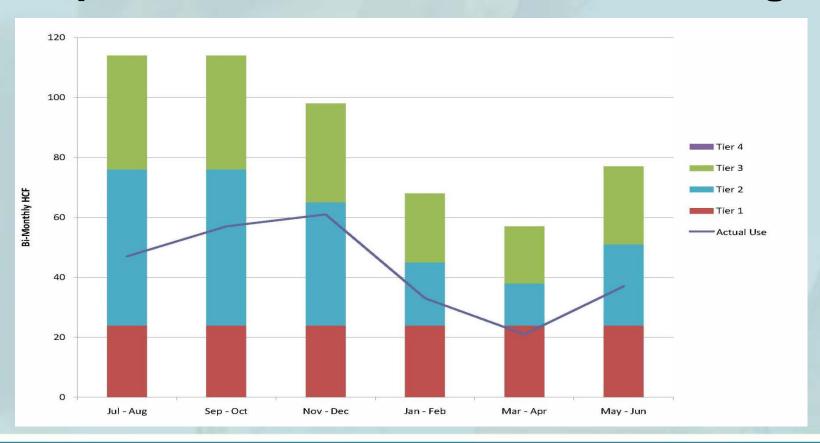
Tier 3 – Inefficient Usage

- ♦ Water Use Above Tier 1 & Tier 2
- \bullet Allocation = $\frac{1}{2}$ Tier 1 + $\frac{1}{2}$ Tier 2

Tier 4 – Excessive Usage

- ♦ Water Use Above Tier 3
- ♦ Separate Water Conservation Fund

Sample Customer's Allocation vs. Usage



Volumetric Rates (HCF)

Single-Family Residential	Previous Rate	Effective Aug. 1, 2010	Effective Jan. 1, 2011	Effective Jan. 1, 2012
Tier 1	\$1.358	\$1.408	\$1.549	\$1.704
Tier 2	\$1.358	\$1.608	\$1.769	\$1.946
Tier 3	\$1.358	\$2.100	\$2.352	\$2.587
Tier 4	\$1.358	\$3.216	\$3.602	\$4.142
All Other Customers	Previous Rate	Effective Aug. 1, 2010	Effective Jan. 1, 2011	Effective Jan. 1, 2012
Domestic	\$1.358	\$1.518	\$1.689	\$1.891
Recycled	\$0.944	\$1.139	\$1.267	\$1.418

Projected Customer Impact



Public Notification and Education

Providing high q

Customer Service

Also see:

Rate Sc

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Tier 1

Tier 2

♦ Proposition 218 Notice

Notice of Public Hearing:

Notice is hereby given that the Board of Directors of the Monte Vista Water District will hold a public hearing to receive public comments and consider adoption of a budge

tiered water rate structure which c an increase over current water rates by the District. This notice explain sons for the increase and the prop structure, the basis on which the rates are calculated, a schedule for i tation of the proposed rates, and th for adopting new water rates under

Pursuant to the Americans with D Act, persons with a disability who disability-related modification or acc tion in order to participate in a mee request such modification or accon from the District Secretary at (909) by email at ttracy@mvwd.org, or (909) 624-0037. Notification 24 hou the meeting will enable District staff reasonable arrangements to assure ity to the meeting.



10575 Central Ave. Montclair CA 91763

Proposed Water Rates

Single-Family Residential Customers (Rudget-Based Tiered Rate)

Over 80% of the District's accounts provide w al single-family residences. The District has detiered rate structure for its single-family reside wards efficient use of water and charges more for use of water. Each single-family residential cu a certain amount of water for indoor and outd Tiers 1 and 2. If the customer exceeds this amount higher rates for the additional water use, repre-

 Tier 1 – Indoor Use: Each single-family res allocated 12.2 units per month for indoor u cubic feet or 748 gallons of water. The indo

Did You Know?

Monte Vista Water District is Initiative, a regional movement to promote Click here for more information.



Pressure reducing valves help main bin pressure throughout the viater distribution

🚺 Share | 🖨 💹 🚮 📠 🛅 🐚

a member of the Green Valley sustainable practices in the greater Inland Empire region.

Your Water District



Please see our Recommende

Proposed 3-Year Water Rate Schedule

Public Hearing: January 27, 2010 Proposed Three-Year Water Rate Schedule

onte Vista Water District's Board of Directors will hold a public hearing on Wednesday, January 27, 2010 at 7 p.m. in the District's Board Room, 10575 Central Avenue, Montclair to receive public comments and consider adoption of a budgetbased tiered water rate structure and a threeyear schedule of water rates

The proposed rate structure represents an increase over current water rates. Several factors contribute to the need to increase water rates: increased cost of imported water due to drought and environmental constraints, new legislation mandating 20 percent reduction in use by 2020, replacement of aging infrastructure and maintaining adequate financial reserves.

Proposed Budget-Based Tiered Rate Structure (Single-Family Residential Customers only; 80% of District customers)

A budget-based tiered rate structure, proposed for individually metered single-family residential accounts only, rewards efficient use of water and charges more for inefficient or excessive use of water. Each singlefamily residential customer will be allocated a sufficient amount of water for indoor use (Tier 1) and outdoor use (Tier 2). If customers exceed these amounts, they will be charged higher rates for the additional water use (Tier 3 and Tier 4). In 2009, 92 percent of all water

used by single-family residential customers fell within either Tier 1 or Tier 2. (Please see chart

Customers who wish to increase their allocation of indoor or outdoor water due to special circumstances may apply for a

Flat Rate (All Other Customers)

All customers, that are not categorized as single-family residential (multi-family, commercial, industrial, institutional, agricultural, nurseries, and dedicated landscape uses) will be charged a flat rate that represents the average rate paid by singlefamily residential customers.

Readiness-to-Service Charge (RTS)

The Readiness-to-Service (RTS) fees, based on meter size that covers the fixed cost of operating the District (maintenance of the water system, customer service, administration, etc.), will also increase by an average of 11 percent over the next three years.

A "Notice of Public Hearing," mailed to all District account holders in early December, describes in detail the reasons for the proposed rate increases, the basis on which the proposed rates are calculated and rate schedules for a three-year period, beginning February 1, 2010.

For information relating to the public hearing and proposed water rates, contact the District at (909) 624-0035 or visit our website at www. mvwd.org.

Allocation: 24.4 units/60-day billing cycle, based on 4 persons per Tier 1 Indoor Use household using 75 gallons per person per day. One unit = 748 gallons Allocation: 0.045 units (34 gallons) per sq. ft of irrigated land per Tier 2 year, based on property lot size and seasonal landscape needs (more Outdoor Use during summer, less in winter) Allocation: The sum of 50% of Tier 1 and 50% of Tier 2 allocations per Inefficient Use billing period All usage above Tier 3 **Excessive Use**



Recommended I

Attention Res

The District's new budget-based tiered rate watering needs throughout the year. The ame than the amount of Tier 2 water provided d

Tier 2 Water: More in

Adjust your outdoo unnecessary

Para traducir este aviso de in

Planning for Implementation...

... Begins While Developing the Model

Who Will Lead the Effort?

- District Staff vs. Consultant
 - Functional Aspect of Task
 - >Technical Needs
- MVWD Chose to Use District Staff to Implement the Rate Model



Preparing the Billing System

- Upgrade Server Performance
- Database Cleanup
- Gathering Property Information
 - > County Records, GIS, Third-Party Sources
- Inserting Formula Components into Billing Software
- Develop Billing Software Formula
 - > Test for Accuracy
- Data Output

Bill Creation & Distribution

- Design Layout
 - ➤ As Soon as Model

 Development Permits
- Billing SoftwareData Export File
 - ➤ Source of Bill Creation
- Programming Layout
 - ➤ Quality Testing



PO BOX 71 10575 Central Ave.

Montclair, CA 91763 - 0071 www.mvwd.org

(909) 624 - 0035

Mon - Thurs 7:30 am - 5:30 pm ; Fri 8:00 am - 5:00 pm

WATER CUSTOMER 100 WATER WAY MONTCLAIR CA 91763

PAY YOUR BILL ONLINE AT WWW.MVWD.ORG

ACCOUNT NUMBER SERVICE ADDRESS CURRENT CHARGE

100 WATER WAY 89.61 \$89.61

999-999-99

TOTAL AMOUNT DUE \$89.61

DUE DATE 03/31/2010

AMOUNT INCLUDED \$



Please return this stub with your payment. Make checks payable to MVWD

MONTE VISTA WATER DISTRICT PO BOX 71

10575 CENTRAL AVE

MONTCLAIR, CA 91763-0071 www.mvwd.org

	BIL	L DETAIL		
Your Wat	ter Budget For This	Period In Units	3	39
Your Wat	ter Consumption			34
Readine	ss To Serve			\$ 36.38
Consum	ption			
Tier 1	Indoor Use	\$1.408 x	24	33.79
Tier 2	Outdoor Use	1.608 x	10	16.08
Tier 3	Inefficient Use	2.100 x	0	0.00

Tier 4	Excessive Use	3.216 x	0	0.0
Total Co	nsumption Charge			\$ 49.8
Pass Th	rough Charges			
Chino I	Basin Watermaster			0.0
Southe	rn California Edison			0.0
Metrop	olitan Water District			0.0
Montcla	air Utility Tax	3.8	39%	3.3
Total Pa	ss Through Charge			\$ 3.3
Total Fo	r This Period			\$ 89.6

\$ 89.61
\$

Due Immediately

BILL SUMMARY

CUSTOMER NAME	WATER CUSTOMER
SERVICE ADDRESS	100 WATER WAY
ACCOUNT NUMBER	999-999-99
BILLING PERIOD	1/1/2010 - 2/28/2010
TOTAL AMOUNT DUE	\$89.61

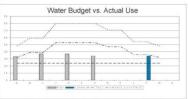
SPECIAL MESSAGES

Online Bill Pay is now available! Go to www.mvwd.org and click on the Online Bill Pay icon to register.

Questions? Contact Customer Service at (909) 624-0035, Ext. 0.

ACCOUNT INFORMATION

Meter#	Current Read	Previous Read
000000000	2448	2414



Your water efficiency rating this billing period is:

Thank you for being an efficient water user!

Number of days in this billing period: 58

1 unit = 100 cubic feet = 748 gallons

Charges billed through closing date of 2/28/2010

Reporting

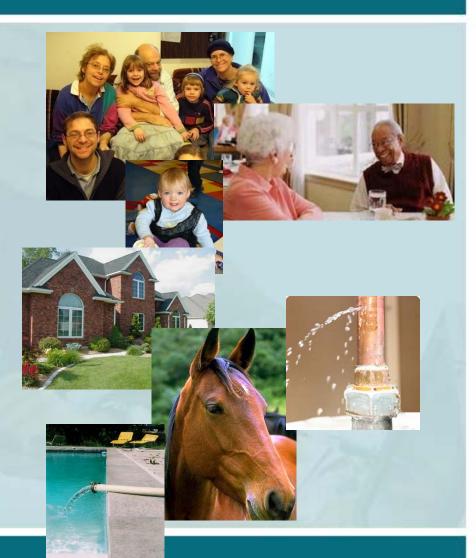
♦ Will Your Software Support Your Reporting Requirements? **≻**Tiered Rate **Statistics** ➤ General Ledger Revenue ➤Other?

Why Variances?

- Water Budget Based on Estimates
 - People Per Household
 - Landscape Area
- ♦ Budget Calculation Provides Generous Indoor and Outdoor Allocations
 - Covers Nearly All Water Needs
- Special Circumstances May Require Additional Indoor or Outdoor Use

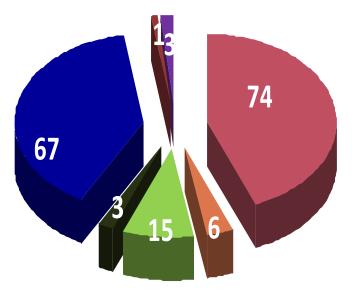
Variance Categories

- Indoor Variances
 - > People Per Household
 - Licensed Care Facility
 - > Medical Needs
- Outdoor Variances
 - ➤ Landscape Area
 - > New Landscaping
 - ➤ Livestock/Large Animals
 - ➤ Pool Refilling
 - > Leaks
- Other



Customer Variance Requests

Processed Variances



Medical Needs

Landscape Area

- ■People Per Household ■Leaks
- Large Animals
- ■Pool Refilling
- ■New Landscaping



Service Address:

For Office Use Onl	y:	
Account#:		
Approved/ Denied:	Date:	
Processed:	Date:	
Tier 1 Adjustment:		_units
Tier 2 Adjustment:		units

Please return to: Monte Vista Water District Attn: Customer Service Dept.

Montclair, CA 91763

P.O. Box 71

Application for Water Budget Variance

This form is to request an adjustment in water budget allocation under the District's budget-based tiered rate structure for single-family residential customers. If you believe you need an increased allocation based on the criteria listed below, you must complete and return this form in its entirety. Incomplete applications, including applications without requested supporting documentation, will be returned without review. The budget-based tiered rate structure is designed to reward those who use water efficiently with lower rates, as well as to assist customers in identifying leaks and over-watering. Variances may be approved only for the reasons listed on this application and are subject to periodic review by the District.

Account Number:

I request an increased water allocation for the following reason	(s):
1. More than Four (4) Full-Time Residents in Househol	
Please list the names, ages, and relationships for all full-time, year- application. The District reserves the right to require documenta	
2. Child, Adult, or Elder Care Facility	Total persons <u>currently</u> cared for:
Please submit a copy of a current and valid license issued by Califo documentation for unlicensed but valid and legal care facilities will be	
3. Medical Needs	Estimated gallons per day required:
Please submit medical documentation. Documentation examples: le	tter from health care provider, medical device receipt, etc.
4. Irrigated Landscape Area Greater than District Estin	ate Actual landscape area (sq.ft.):
Please submit a drawing of your property area using the graph provi	
5. Establishment of New Landscaping Ne	w or rehabilitated landscape area (sq.ft.):
Please submit permit or a drawing of your landscape area using the	
6. Pool Requires Refilling Date you will refill p∞l:	Total capacity of pool (gailons):
7. Livestock and Large Animals (100+ pounds)	(s):# of animals:
8. Leaks	Date leak fixed:
Please submit documentation of leak fix. Documentation examples:	before/after photographs, receipt for plumbing repair, etc.
9. Other Circumstance – There may be instances where an incre	eased allocation on a permanent or temporary basis may be
appropriate. If you believe that is the case please provide details on	a separate page and attach any available documentation.

Email (optional) Please allow 30 days to process your variance request. Once approved and processed, variances will be applied to FUTURE BILLINGS and will NOT be retroactively applied. Please provide contact information if there are questions about your application

I affirm, under penalty of perjury, that I am the above account holder and the information contained herein.

to change and I may be liable for back charges if I provide incorrect information.

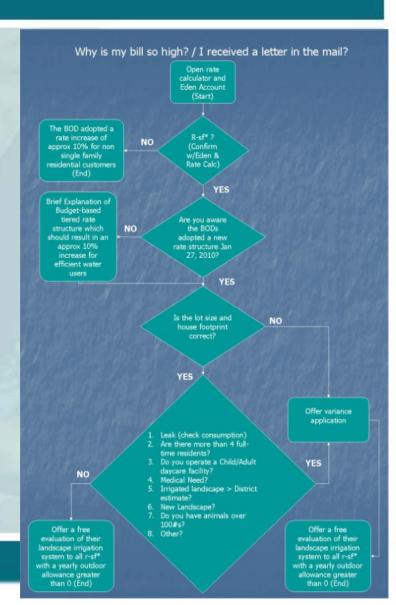
Signature (unsigned applications are automatically denied)

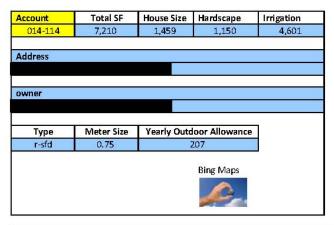
Daytime Phone Number (8am - 5pm)

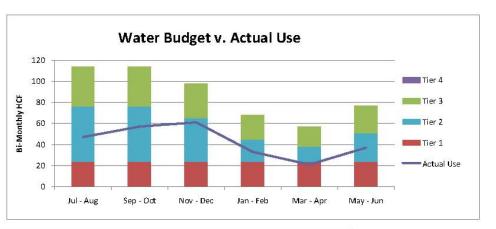
including supporting documentation, is complete and accurate. I further understand that all variances are subject

Staff Training

- **♦** Start Months Early
- Weekly Staff Meetings
 - ➤ Break Down Bill Formula
 - ➤ New Bill Layout
 - ➤ Variances
 - Addressing Customers' Questions (Flowchart)
 - >FAQs Worksheet
 - ➤ Rate Calculator







BILL COMPARISON												Most Recent Bill						
					Base	ed on Last y	ears	cunsumptio	n (Ju	ıly '08 - Jur	(09)						Reading	; 3
February-0	9		To	tal	Jul-	Aug	Se	p-Oct	No	v-Dec	Jan	Feb	Ma	ır-Apr	Ma	y-Jun		Jan-10
Tier 1	\$	1.408	\$	198.53	\$	33.79	\$	33.79	\$	33.79	\$	33.79	\$	29.57	\$	33.79	\$	33.7
Tier 2	\$	1.608	\$	184.92	\$	36.98	\$	53.06	\$	59.50	\$	14.47	\$	E E	\$	20.90	\$	12.8
Tier 3	\$	2.100	\$	-5	\$	-	\$	-	\$	7	\$	-	\$	5	\$	-	\$	<u> </u>
Tier 4	\$	3.216	\$	12	\$	2	\$	2	\$	<u></u>	\$	12	\$	<u> </u>	\$	_	\$	-
RTS					\$	22.74	\$	22.74	\$	22.74	\$	22.74	\$	22.74	\$	22.74	\$	22.7
Utility Tax					\$	3.64	\$	4.26	\$	4.51	\$	2.76	\$	2.03	\$	3.01	\$	2.7
Total			\$	540.11	\$	97.15	\$	113.86	\$	120.54	\$	73.77	\$	54.34	\$	80.45	\$	72.1
Current	\$	1.358	\$	478.98	\$	85.94	\$	100.05	\$	105.70	\$	66.19	\$	49.26	\$	71.84	\$	64.7
Change				12.76%		13.04%		13.80%		14.05%)	11.44%		10.31%	*	11.99%		11.29%

Billing Period - Tier Breakdown												
	Jul - A	ug	Sep -	-Oct	Nov	- Dec	Jan - Feb		Mar	-Apr	May - Jun	
	From	To	From	To	From	To	From	To	From	To	From	To
Tier 1	0	24	0	24	0	24	0	24	0	24	0	24
Tier 2	24	76	24	76	24	65	24	45	24	38	24	51
Tier 3	76	114	76	114	65	98	45	68	38	57	51	77
Tier 4	114	114	114	114	98	98	68	68	57	57	77	77
	3)			Last	Years Consump	otion Data July '0	8 - June '09	~		· ·		
Last Years	47	47 57		61 33		33 21		1	37			
	Tier Distribution											
Distribution	25.09	%	25.	0%	20.0%		10.0%		7.0%		13.0%	
Allowance	52	Ť	52	2	4	1	2:	1	14		27	

Customer Response

- ♦ Increase in Length of Calls
 - ➤ Not Enough to Warrant Additional Staff
- ♦ Offer Assistance
 - > Free Irrigation Evaluation
 - > Rebates & Incentives
 - ➤ Gardening Classes
 - ➤ Variances (if eligible)



Administrative Costs

Staff Labor	\$95,000

♦ Hardware/ Software	Upgrades	\$25,000
----------------------	----------	----------

♦ Custom Programming	\$ 6,000
----------------------	----------

Billing Creation	& Distribution	\$ 5,000
------------------------------------	----------------	----------

♦ Customer Communications	\$14,000
---------------------------	----------

\$145,000

Lessons Learned

- Know Your Customer Base
- Begin Communicating with Software and Other Vendors While Developing the Model
- Test During All Phases of Implementation
- Think Early about Your Reporting Needs



Questions?

♦ Stephanie Reimer Accountant / Customer Service Supervisor sreimer@mvwd.org



(909) 624-0035 www.mvwd.org