

February 23, 2015

Ms. Felicia Marcus, Chair and Members
State Water Resources Control Board
1001 I Street
Sacramento, CA 95814

Dear Chair Marcus and Members of the Board:

We are pleased to provide you with the 2013-2014 Annual Report for the California Urban Water Conservation Council. This report is our annual update to the State Water Resources Control Board on Council activities.

Accomplishments of statewide importance are summarized in this report. During this period the Council:

- Initiated an effort to promote sustainable landscaping in California, which included two symposia with almost 400 attendees.
- Launched a new BMP reporting application and conducted training sessions throughout the state to train members on use of the application.
- Launched an updated website: cuwcc.org.
- Began a process to review the conservation pricing BMP for potential revisions, including two workshops attended by almost 200 participants.

This report includes new data on the implementation of the Council's Best Management Practices by member urban water suppliers for reporting years 2011 and 2012.

If you have any questions, please contact me at 916-552-5885 and thank you for your support of the Council and its efforts to maximize urban water conservation in California.

Sincerely,



Gregory Weber
Executive Director

Enclosure



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Annual Report 2013-2014

Partners for a Water-Efficient California

CALIFORNIA URBAN WATER CONSERVATION COUNCIL

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Introduction

The California Urban Water Conservation Council is pleased to submit this overview of its activities during 2013 and 2014.

Since the signing of the Memorandum of Understanding Regarding Urban Water Conservation in 1991, the Council has been dedicated to maximizing urban water conservation in the state. The Council works to achieve this mission by supporting and integrating innovative technologies and practices; encouraging effective public policies; advancing research, training, and public education; and building on collaborative approaches and partnerships.

The Council is a collaborative effort uniting water service providers, environmental groups and other interested parties who together envision a water-efficient California that is characterized by reliable and sustainable water resources, healthy ecosystems, and economically strong communities. The Council is led by an active 25-member board of directors. In 2014 the Council welcomed a new Executive Director, Gregory Weber, to help lead the organization. Greg is the Council's fourth Executive Director overall, and its third full-time.

The work of the Council's 8-member staff is supported by member dues, federal and state contracts and grants, and private grants.

The report contains two sections. Part 1 describes 8 Council programs and activities undertaken during 2013 & 2014. Part 2 sets out the data on water utility operations voluntarily reported to the Council by members for 2011 & 2012.

Part 1: Council Water Savings Programs and Activities

1. Sustainable Urban Landscapes

For more than two decades, Council members have identified and implemented best management practices for water conservation. Over the last several years, the Council's interest in outdoor water use has grown and in 2011 the Council tasked its Landscape Committee with developing a long-term vision for sustainable urban landscapes.

The Committee's work included identifying common elements from a variety of public and private sustainability programs and resources, and surveying subject matter experts and other stakeholders for input on the latest sustainable landscaping practices. What emerged from this process is a holistic and integrated vision for landscape sustainability that transcends beyond water-use efficiency to also address a multitude of related benefits, including:

- reduced dry-season runoff
- onsite retention of storm water

- embedded energy savings
- reduced green waste generation
- reduced greenhouse gas emissions; and
- enhanced wildlife habitat in urban settings.

In May 2014, the Council and its partners conducted two symposia dedicated to accelerating the pace of change toward more sustainable landscapes in California. The symposia took place in Northern and Southern California and were attended by almost 400 people from local water agency personnel, to nonprofit executives, state and federal agency representatives and private industry. The Council appreciated the support of State Water Board staff in planning the symposia, and of Board members in participating as presenters.

Following the symposia, the Council released a [report](#) summarizing the symposia findings. The report has been well-received and is serving as a starting point for the Council's efforts to continue to build partnerships. One of the first steps being taken is the development of a draft framework for a market transformation plan. This work will continue in 2015.

In addition to the State Water Board, the following agencies assisted the Council in planning the symposia and remain active in efforts to move forward:

- California Department of Water Resources;
- California Department of Pesticide Regulation;
- Cal Recycle; and
- University of California, Davis

Funding for the symposia was provided by California Department of Water Resources, California Department of Pesticide Regulation, Cal Recycle, and the Water Forum.

In 2013 and 2014, the Landscape Committee has been developing the Landscape Resources Clearinghouse. This is a tool that will contain program information and other resources for agencies and end users. It will be used by Council members and non-member stakeholders to share, review and search for resources that encourage and support sustainable landscaping in California. Committee members worked on populating the database for the toolkit and look forward to completing the project in 2015 with added functionality running on a web-based application.

2. Database Reporting Application

The Memorandum of Understanding describes five categories of water conservation programs that water agencies can implement to better manage their water resources. The Council's online BMP reporting application is used by water suppliers to submit information on the progress of their water conservation efforts and to receive confirmation regarding their coverage status.

In June 2013, following several years of development, the Council launched a new and improved database reporting application. Funding for this project was provided by the U.S. Bureau of Reclamation and Council members. The reporting application allows Council member agencies to log in at any time and report on implementation of the BMPs. To familiarize members with the new system, Council staff

conducted seven in-person trainings for members around the state and developed 14 “How To” [webinars](#) that are accessible on the Council website, along with a set of six downloadable user guides. The Council also periodically transmits the *BMP Reporting News*, an electronic newsletter, to its members offering reporting tips and information.

Council members frequently request custom reports from the Council utilizing their reporting data.

Highlights from the most recent set of members’ implementation reports are set out below, in Part 2.

3. Conservation Pricing

In 2007 the Council adopted an amendment to the conservation pricing BMP (then BMP 11, currently numbered BMP 1.4), which included a provision calling for a review of the BMP for possible refinement after five years. In 2012 the Council initiated this review and directed the Utility Operations (UO) Committee to perform several investigations to support this review. The Committee:

1. Looked at the rate at which water agencies are meeting the 70/30 volumetric/fixed proportions in Option 1 of the BMP;
2. Discussed the question the impact of Prop 218 on volumetric pricing, and found no indication of incompatibility; and
3. Surveyed water agencies about the barriers to implementing the BMP.

The Council held two BMP 1.4 Retail Conservation Pricing workshops in 2013 in partnership with ACWA, CUWA, and DWR. Almost 200 people attended. The workshops included panel discussions and small group listening sessions where participant feedback was collected. The [BMP 1.4 Workshop Report](#) summarizes the feedback from these workshops. A project scope and project advisory committee (PAC) structure was approved by the Council Board in August 2013. All of the workshop feedback and committee research was made available for the PAC’s review. The PAC originally was given a 90-day timeline to complete its tasks, which was extended another 90 days until January 2014. PAC meetings were open to all Council members. After meeting seven times throughout the fall of 2013, the BMP 1.4 PAC developed a set of recommendations as well as a list of outstanding issues. These were both set out in the [BMP 1.4 PAC final report](#).

The Board reviewed the PAC recommendations and created a Board committee tasked with addressing the outstanding policy and implementation questions. Much of the committee’s work involves review and refinement of the possible conservation pricing matrix originally developed by the PAC. More information on the process and PAC documents is available on the Council [website](#). The Council’s Committee is nearing completion of its work and will be reporting its recommendations to the Council’s Board in early 2015.

4. Trainings and Symposia

In 2013 and 2014, the Council conducted trainings and symposia that were attended by 750 participants, both members and non-members. These events included:

- BMP 1.2 Water Loss Webinar

- BMP 1.3 Feasibility Study Tool Workshop and Webinar
- 7 BMP Reporting Workshops
- 14 BMP Reporting “How To” Webinars
- Avoided Costs and Environmental Benefits Workshop
- Water Conservation Coordinator II Training
- CII Workshop
- Achieving a New Normal in California Landscapes Symposia (Northern and Southern California)
- Water Conservation Coordinator I Training
- Water Loss / Component Analysis Workshop

5. Research

The Council’s mission includes the promotion of water conservation and efficiency research. To that end, the Research and Evaluation Committee convenes to address complex technical issues related to BMP implementation, savings measurements, effectiveness analysis and other related issues. In 2013 and 2014, the Committee completed the Plan Review potential Best Management Practices (PBMP) and began review of a draft Graywater PBMP. Work also began on an update to the Council’s *Costs and Savings Study*. Phase I of that update was completed in 2014; Phase 2 will be carried out in 2015. PBMP research is funded by a grant from the Department of Water Resources, while the *Costs and Savings Study* work is being funded by a grant from the California Water Foundation.

Research on the following PBMP topics also began in 2013-14:

- Multi-Stream Rotary Nozzles;
- Turf Removal (Landscape Conversion);
- Soil Moisture Sensors
- Drip Irrigation and Related Systems; and
- Customer Water Use Messaging.

6. Outreach and Communication

A remodeled Council website was launched in 2014 at www.cuwcc.org. Some of the site’s new features are only for members in good standing. Many other features are available to members and non-members alike.

With the new website, members and others are able to:

- conduct more robust searches for pages, documents, events, and news;
- subscribe to regular RSS updates on water efficiency and conservation news;
- add calendar events to their work calendar; and,
- find members through a searchable directory.

In addition, to facilitate document sharing and meeting preparation, committee chairs and Council board liaisons are also able to upload files for committee members.

The Council is also beginning the rollout of two new website features: on-line workshop registration and payment, and a Council store for purchases.

The Council’s e-newsletter, *Council Link*, is sent to members about twice a month with updates on Council meetings and trainings and other news from the water conservation community.

In its 2011-2015 Strategic Plan, the Council called for the adoption and promotion of a statewide public education/awareness program. In 2013, thanks to the work of the Council's Education Committee, the Council became a partner of the Save Our Water campaign. Save Our Water is an ongoing, comprehensive statewide water conservation education program. The Education Committee also developed a template for a student video contest called the [Video Contest in a Box](#) that can be accessed via the Council website.

7. Drought Response

As California's drought entered its third year in 2014, the Council aimed to provide services and tools that would help members meet their increased water conservation goals. The Department of Water Resources stepped in with funding for two projects to meet this need.

The first is called the Jump Start Water Shortage Toolkit. It will help water service providers quickly ramp up their water conservation efforts to respond to the drought. Many water service providers are small and may not have the resources or occasion to develop a full range of water conservation and efficiency programs. This tool kit will provide turnkey tools for water agencies that get maximum water savings in a minimum amount of time. At the same time, it will identify those tools with longer lead times that water service providers should be developing now to be able to implement for savings next year. The tool kit is currently under development and should be available in March 2015.

The second DWR-funded project in response to the drought is the development of a video clearinghouse on the Council website. The Council polled its members for existing "how to" water conservation videos, reviewed the videos and organized them on the Council website. This web page will go live in January 2015. In addition, the Council is providing a gap analysis to DWR that will list video subjects not currently available. Efforts will be made to identify partners to help produce new videos to fill the missing gaps. Links to the video clearinghouse will be distributed widely to Council partners, members, and non-members.

8. Other Projects

Council staff began working with E & J Gallo Winery in Fresno in October 2013 on an on-site water reuse project to collect cooling tower blow down water and reuse it as the first wash in the tank clean in place cleaning process. The project is estimated to save as much as 13 million gallons of water per year and is being funded by DWR with Proposition 50 grant funding.

Since 2007, the Council has operated two "Smart Rebate" programs. The first, funded by DWR with a Proposition 50 grant, involved 37 water utilities. Between its start and its conclusion in 2013, the program issued 11,015 rebates totaling \$2,118,700. Rebated appliances and equipment included:

- High Efficiency(HET) and Ultra Low Flow Toilets (ULFT) for residential customers,
- ULFTs for commercial customers,
- HETs for commercial customers,
- High Efficiency Washers (HEWs) for residential customers,

- HEWs for commercial customers
- High Efficiency Urinals for commercial customers,
- Pressurized Water Brooms,
- X-Ray Film Processor Recycling Systems, and
- Digital X-Ray Systems

The second program is fully funded by Council members with no outside grants or other funding. Eight Council member water utilities participate in this program. Since the program's start in December 2013, almost 7,000 rebates have been issued to commercial and residential customers. Between 2007 and 2014, the Council estimates a water savings of 11,500 acre-feet has been realized through these two programs.

Each year, the Council issues two awards to recognize water conservation and efficiency leaders. The first award is the Mike Moynihan award. It goes to a person who demonstrates excellence in statewide or institutional conservation innovations and practices. The second award is the Llana Sherman award. It goes to a person who demonstrates excellence in local or community conservation innovations.

In 2013, the Council awarded two Moynihan awards to Tim Blair with the Metropolitan Water District of Southern California, and Toby Roy of the San Diego County Water Authority. In 2014, there were also two winners: Manucher Alemi, California Department of Water Resources, and Dr. Robert Wilkinson, University of California, Santa Barbara.

In 2013, there were two winners of the LLana Sherman award: Joe Berg with the Municipal Water District of Orange County, and Richard Harris of the East Bay Municipal Water District. In 2014, the winner was Chris Dundon, Contra Costa Water District.

Part 2: Highlights of Signatory Water Savings Activities during 2011-2012

The following information summarizes highlights of the urban water conservation activity undertaken by the MOU signatories during 2011-2012 - the most recent period for which members have voluntarily reported their activities to the Council.¹ The report focuses on BMP 1—Utility Operations. This BMP includes the data suggested by State Board staff to be of most interest to the State Board. Page 13 shows a list of member agencies that reported 2011-12 data.

BMP 1.1: Operations Practices: At least 94% of reporting agencies stated that they had a conservation coordinator in both 2011 and 2012. See Figure 1 and Figure 2.

BMP 1.2: Water Loss Control: In 2014 the Utility Operations Committee began reviewing AWWA Water Audit reports submitted to the Council from 2011-2012, Table 1 shows summary statistics from these audits reports. The total number of agencies submitting water audits with valid data, increased between from 86 in 2011 to 97 in to 2012; however, the percent of agencies submitting valid audit reports was the same – 72%.² The Council is planning a series of hands on workshops to help train California agencies on the AWWA Water Audit Software.

Table 2 highlights a summary of water loss interventions. While more than half of agencies report the number of leaks they repaired, only about a quarter or fewer report other interventions such pipe renewal, surveying for leaks, and reducing pressure. Agencies reported saving over 82,000 AF of water in 2011-12 through these interventions.

BMP 1.3: Metering With Commodity Rates For All New Connections And Retrofit Of Existing Connections: Table 3 shows the reported number of unmetered accounts fitted with meters increased by 78% between 2011 and 2012. Figure 3 shows relative percentages of members reporting unmetered connections decreased from 13% to 11%, while the percent of new service connections being metered and billed volumetrically both increased 2% between 2011-12. Twenty-three agencies reported a total of 178,877 unmetered connections in the 2011-12 reporting period.

BMP 1.4: Retail Conservation Pricing: The percentage of agencies meeting BMP 1.4 Option 1 increased from 51% to 54%. Figure 4 through Figure 7 show the reported rate structures by customer class and percentage of revenue from volumetric charges in 2011 and 2012.

¹ There are three caveats to note. First, the reporting results summarized here include only data formally and voluntarily submitted to the Council by MOU signatories. Thus, there is conservation activity by non-signatories or non-reporting agencies that is not included. Second, the data compilations are based on self-reported data provided by the signatories. Although checked for errors, the data has not been verified as accurate by the Council. Finally, the data has been aggregated for summary purposes.

² Audit reports were flagged as probably invalid if the included negative water losses or an Infrastructure Leakage Index below 1, or above 20.

BMP Tables and Figures:

Figure 1: BMP 1.1 Conservation Coordinator - 2011

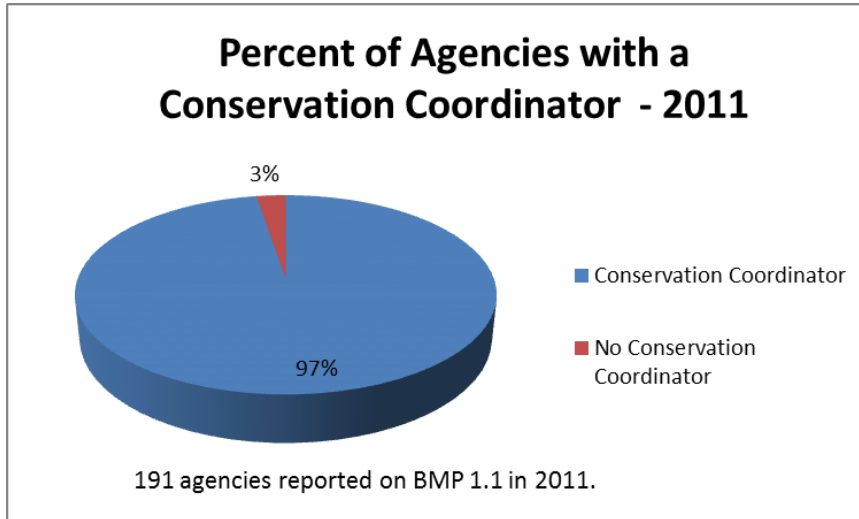


Figure 2: BMP 1.1 Conservation Coordinator - 2012

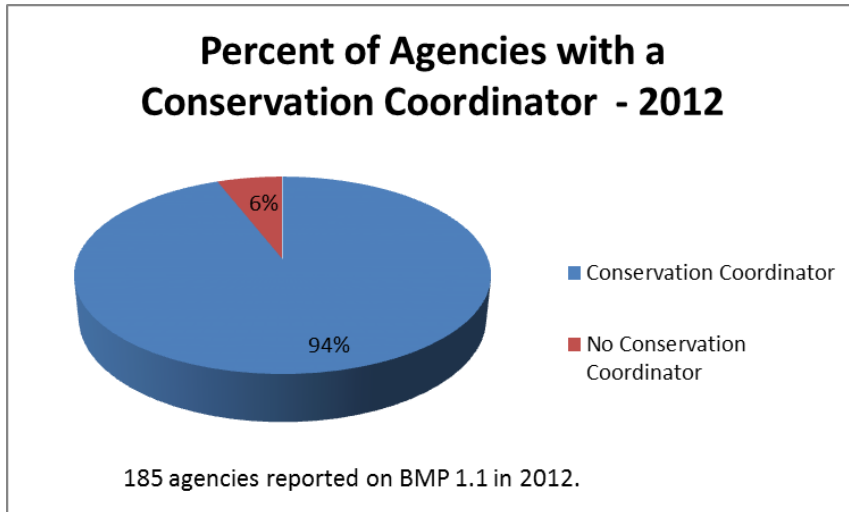


Table 1: BMP 1.2 Water Audit Summary Statistics - 2011-2012

		Real Losses (gal.) per service connection per day*	Real Losses (gal.) per length of main (miles) per day*	Infrastructure Leakage Index (ILI) [Real Losses/UARL]	Audit Score
2011 (86 Reports)	Max	3,233.1	10,026.9	13.4	100.0
	Min	1.1	0.1	1.0	6.2
	Average	87.1	3,909.7	2.9	75.8
	Median	35.3	3,413.2	2.1	74.2
	Standard Deviation	360.8	3,413.0	2.3	12.2
	Number with a value > 0	79	6	78	86
2012 (97 Reports)	Max	1,204.0	26,152.4	17.1	100.0
	Min	6.6	0.1	1.0	6.2
	Average	69.6	7,684.4	3.4	77.3
	Median	37.9	3,312.2	2.1	75.8
	Standard Deviation	137.9	8,485.0	3.4	11.9
	Number with a value > 0	87	9	87	97

* The AWWA Software calculates only one of these two indicators for each report.

Table 2: BMP 1.2 Reported of Interventions - 2011-2012

		Linear feet of pipe renewal and rehabilitation	Miles Of System Surveyed For Leaks	Pressure Reduction Under taken For Loss Reduction	Total Leaks Repaired	Water Saved (AF)
2011 (196 BMP 1.2 Reports)	Number of Agencies	35	45	20	103	26
	Average	10,655.34	170.35	-	221	2,040.64
	Max	114,210.00	1,248.90	-	2,442	17,968.00
	Min	2.02	0.33	-	2	0.01
	Std Dev	20,850.17	237.88	-	356	4,998.46
2012 (188 BMP 1.2 Reports)	Number of Agencies	45	49	23	101	25
	Average	8,306.30	229.07	-	222	1,158.86
	Max	90,933.00	4,740.00	-	3,164	16,830.00
	Min	1.00	0.67	-	0	0.01
	Std Dev	16,016.40	683.59	-	373	3,502.86

Table 3: BMP 1.3 Metering Report - 2011-2012

		Unmetered Accounts Fitted with Meters during the Past Reporting Year	Number of CII Accounts with Mixed Metering	Number of CII Accounts Retrofitted with Dedicated Irrigation Meters During the Past Reporting Year
2011	Number of Agencies	23	119	20
	Total	65,477	253,173	1,974
	Average	2846.8	2127.5	98.7
	Median	356	618	7.5
	Max	19022	73098	1233
	Min	1	9	1
	Std Dev	4953.0	6927.4	285.3
2012	Number of Agencies	17	110	20
	Total	117,003	356,537	1,661
	Average	6,882.5	3,241.2	83.1
	Median	310	565	6
	Max	97,961	140,185	1,234
	Min	1	5	1
	Std Dev	23,542.3	14,990.5	275.5

Figure 3: BMP 1.3 Metering Implementation - 2011-12

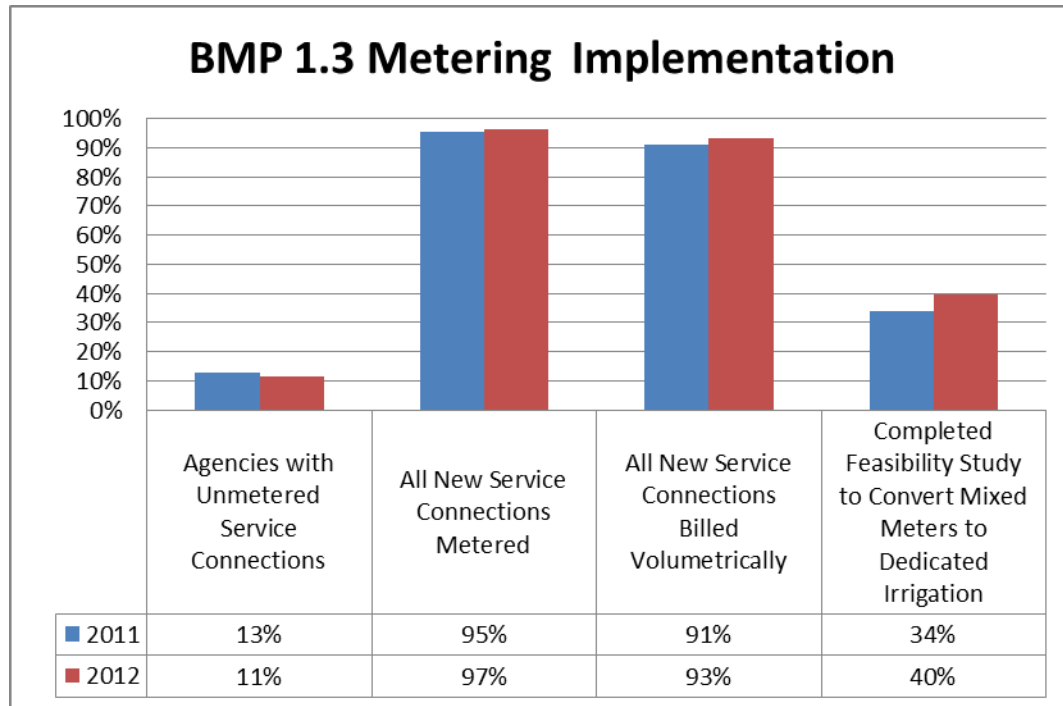


Figure 4: BMP 1.4 Rates By Customer Class- 2011

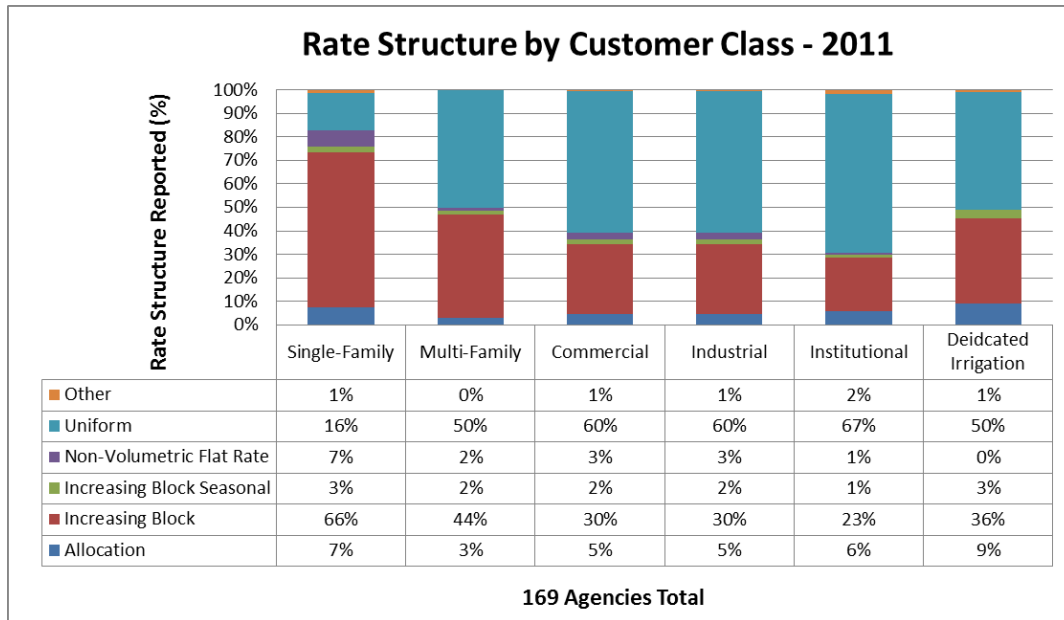


Figure 5: BMP 1.4 Percentage Revenue from Volumetric Rates- 2011

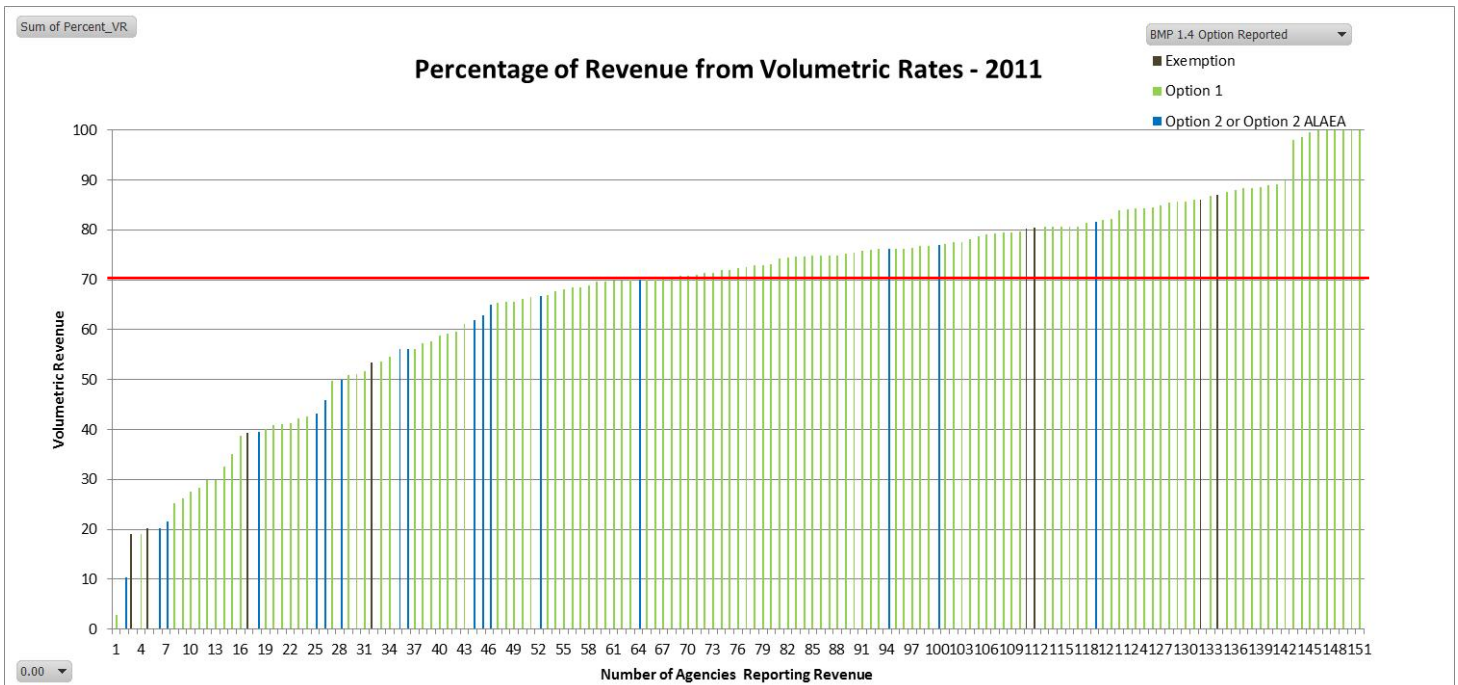


Figure 6: BMP 1.4 Rates By Customer Class- 2012

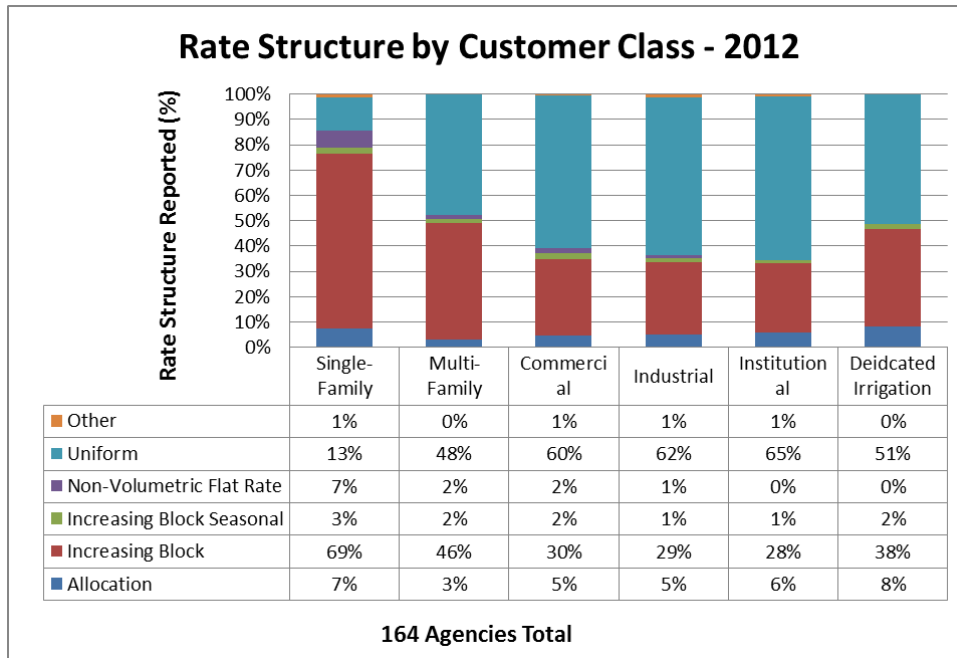
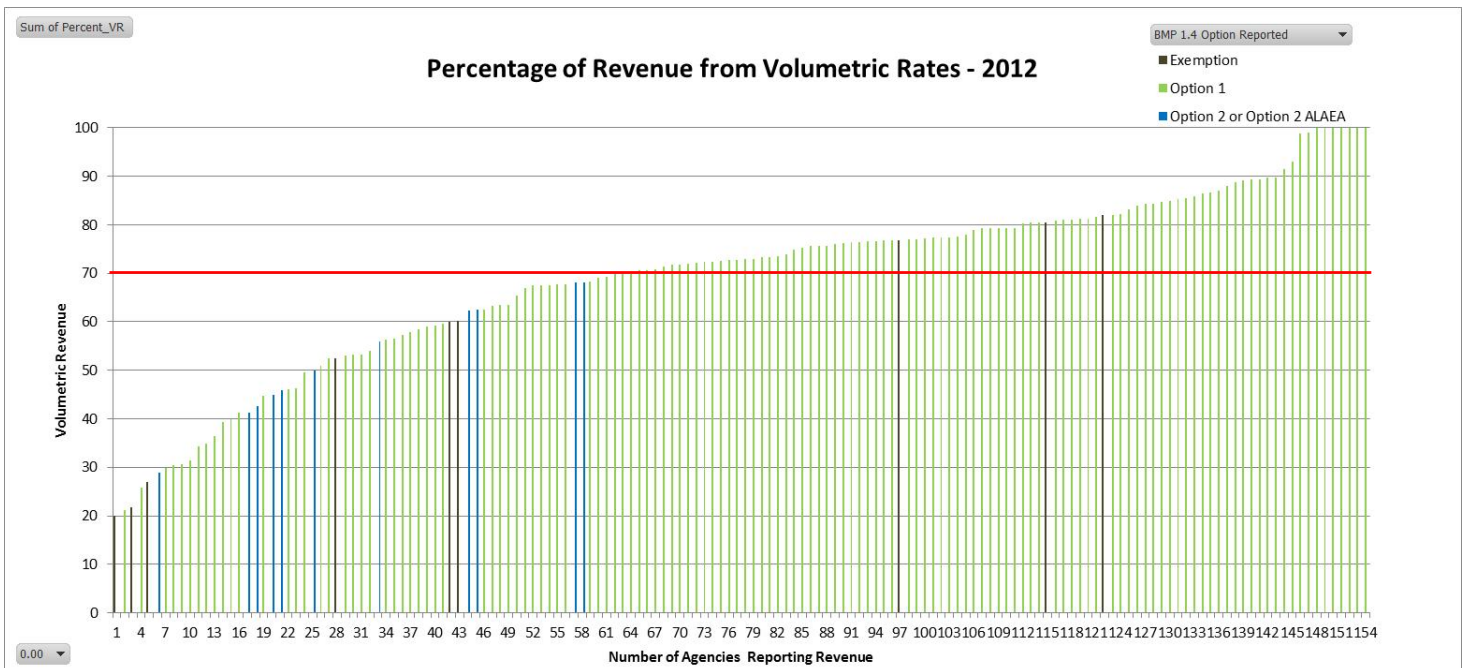


Figure 7: BMP 1.4 Percentage Revenue from Volumetric Rates- 2012



2011 – 2012 Reporting Agencies:

The following is a listing of member agencies that reported 2011-12 data.

Anaheim, City of	California Water Service Company – Antelope
Alameda County Water District	Contra Costa WD - Retail
Benicia, City of	Contra Costa WD - Wholesale
CA Water Service Company - Bakersfield	Corona, City of
CA Water Service Company - Bear Gulch	Dublin San Ramon Services District
CA Water Service Company - Chico	East Bay Municipal Utility District
CA Water Service Company - Dixon	Eastern Municipal Water District
CA Water Service Company - Dominguez	El Dorado Irrigation District
CA Water Service Co - East Los Angeles	El Toro Water District
CA Water Service Co - Hermosa / Redondo	Elsinore Valley MWD - Retail
CA Water Service Co - Kern River Valley	Elsinore Valley MWD - Wholesale
CA Water Service Company - King City	Escondido, City of
CA Water Service Company - Livermore	Fair Oaks Water District
CA Water Service Co - Los Altos District	Fallbrook Public Utility District
CA Water Service Company - Marysville	Folsom, City of
CA Water Service Co - Mid-Peninsula	Foothill Municipal Water District
CA Water Service Company - Oroville	Fresno, City of
CA Water Service Co - Palos Verdes	Garden Grove, City of
CA Water Service Co - Redwood Valley	Glendale, City of
CA Water Service Co - Salinas District	Goleta Water District
CA Water Service Company - Selma	Hayward, City of
CA Water Service Co - So San Francisco	Helix Water District
CA Water Service Company - Stockton	Hidden Valley Lake Community Services District
CA Water Service Company - Visalia	Huntington Beach, City of
CA Water Service Company - Westlake	Indian Wells Valley Water District
CA Water Service Company - Willows	Irvine Ranch Water District
Calistoga, City of	Kern County Water Agency
Calleguas Municipal Water District	Lake Arrowhead Community Service District
Camarillo, City of	Lake Sherwood Community Services District
Camrosa Water District	Lakeside Water District
Carlsbad Municipal Water District	Las Virgenes Municipal Water District
Carpinteria Valley Water District	Long Beach Water Department
Casitas Municipal Water District Retail	Los Angeles Co Waterworks District 21 Kagel Canyon
Casitas Municipal Water District Wholesale	Los Angeles Co Waterworks District 29 – Malibu & Marina del Rey
Castaic Lake Water Agency	Los Angeles County Waterworks District 36 – Val Verde
Chino Hills, City of	Los Angeles County Waterworks District 37 – Acton
Citrus Heights WD	Los Angeles County Waterworks District 40 –
Clear Creek CSD	
Coastside County Water District	
Big Bear Lake, City of	
Burbank, City of	

Antelope Valley	San Antonio Water Company
Los Angeles Dept. of Water and Power	San Benito County Water District
Marin Municipal Water District	San Benito County Water District
Mesa Consolidated Water District	San Buenaventura, City of
Metropolitan Water District of SC	San Clemente, City of
Mid-Peninsula Water District	San Diego County Water Authority
Monte Vista Water District	San Diego, City of
Montecito Water District	San Dieguito Water District
Moulton Niguel Water District	San Francisco PUC - Retail
Mountain View, City of	San Francisco PUC - Wholesale
Municipal Water District of Orange County	San Gabriel Valley Water Company - LA
Napa, City of	San Gabriel Valley Water Company FO
Newport Beach, City of	San Jose Water Company
Nipomo Community Services District	San Jose, City of
North Marin Water District	San Luis Obispo, City of
Oceanside, City of	Santa Barbara County Water Agency
Olivenhain Municipal Water District	Santa Barbara, City of
Ontario Municipal Utilities Company	Santa Clara Valley Water District
Orange County Water District	Santa Clarita Water Division
Orange, City of	Santa Cruz, City of
Orange Vale Water Co.	Santa Fe Irrigation District
Otay Water District	Santa Monica, City of
Oxnard, City of	Santa Rosa, City of
Padre Dam Municipal Water District - Retail	Santa Ynez River WCD - I.D.#1
Palmdale Water District	Shasta Lake, City of
Pasadena, City of	Solano County Water Agency
Paso Robles, City of	Solano/Suisun WA
Petaluma, City of	Sonoma County Water Agency
Placer County Water Agency - Retail	Sonoma, City of
Placer County Water Agency - Wholesale	South Tahoe Public Utility District
Pomona, City of	Stockton East Water District
Poway, City of	Stockton, City of
Rainbow Municipal Water District	Suburban Water Systems
Ramona Municipal Water District	Sweetwater Authority
Rancho California Water District	Sweetwater Springs Water District
Rio Linda / Elverta Community Water District	Three Valleys Municipal Water District
Rohnert Park, City of	Town of Windsor
Roseville, City of	Tracy, City of
Rowland Water District	Triunfo Sanitation District
Sacramento County Water Agency – Arden Park Vista	Turlock, City of
Sacramento County Water Agency – Laguna / Vineyard	Vacaville, City of
Sacramento County Water Agency - Wholesale	Valencia Water Company
Sacramento Suburban Water District	Vallecitos Water District
Sacramento, City of	Vallejo, City of
	Valley Center Municipal Water District
	Valley of the Moon Water District

Ventura County Waterworks Dist. #1
Ventura County Waterworks District No. 8
Vista Irrigation District
West Basin MWD
West Sacramento, City of

Western MWD of Riverside County - Retail
Western MWD of Riverside County - Wholesale
Yreka, City of
Yucaipa Valley Water District
Zone 7