

This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



BMP Reporting System Update



Collecting California
Water Conservation
Data Collaboratively

Beth Ernsberger
Database/Website Administrator



Council Background

- Created in 1991 in response to CA drought
- Regulatory initiative by State Water Resources Control Board
- Environmental organizations and water suppliers entered into agreement
- “Memorandum of Understanding Regarding Water Conservation in California” (MOU)
- List of water conservation Best Management Practices (BMPs)

BMP Revisions

- 1997:
 - BMPs were revised from 16 to 14 BMPs
 - Created 10-year program goals
- 2008:
 - End of ten year timeframe (1998-2008)
 - Incorporated new technologies and water efficiency practices
 - BMPs grouped by topic; revised from 14 to 5 BMPs

Foundational BMPs

- **BMP 1 Utility Operations**

- BMP 1.1 Operations Practices
 - BMP 1.1.1. Conservation Coordinator (*formerly BMP 12*)
 - BMP 1.1.2. Water Waste Prevention (*formerly BMP 13*)
 - BMP 1.1.3. Wholesale Agency Assistance (*formerly BMP 10*)
- BMP 1.2. Water Loss Control (*formerly BMP 3*)
- BMP 1.3. Metering with Commodity Rates (*formerly BMP 4*)
- BMP 1.4. Retail Conservation Pricing (*formerly BMP 11*)

- **BMP 2 Educational**

- BMP 2.1. Public Information (*formerly BMP 7*)
- BMP 2.2. School Education (*formerly BMP 8*)

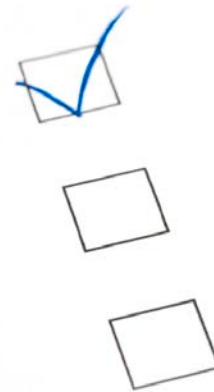
Programmatic BMPs

- **BMP 3 Residential**
 - BMP 3.1. Residential Assistance (*formerly BMPs 1 & 2*)
 - BMP 3.2. Landscape Water Survey (*formerly BMP 1*)
 - BMP 3.4. High-Efficiency Clothes Washers (*formerly BMP 6*)
 - BMP 3.4. Water Sense Standard (WSS) Toilets (*formerly BMP 14*)
 - BMP 3.5. Water Sense Standard (WSS) for New Residential Development (*new*)
- **BMP 4 Commercial Industrial Institutional (CII)**
(formerly BMP 9)
- **BMP 5 Landscape**

BMP Compliance Alternatives

Three methods to receive credit for BMP water conservation programs:

1. **Traditional BMP** implementation as written in the MOU
2. **Flex Track** measures which achieve equal or greater water savings than BMP program implementation
3. **Gallons Per Capita per Day (GPCD)** water use reduction over 10-year period



Traditional BMPs

- “Widgets” based
- Agencies accomplish specific measures
- Example:

BMP 3.1. Residential assistance program

- Provide assistance to average of 1.5% per year of current single family accounts and 1.5% per year of current multi-family units

Flex Track Approach

- Water savings equal to or greater than BMP measure water savings
- Flex Track Menu
- Allows agencies to implement the right programs for their service area
- Only applies to **Programmatic BMPs** (Residential, CII, Landscape)

GPCD Approach

- Overall water savings:
 - BMP list
 - Flex Track Menu
 - Foundational BMPs
- In line with statewide 20X2020 water savings targets

BMP Reporting System Update

- Water suppliers agree to submit online reports on water conservation programs
- MOU revision necessitated new report forms
- Legacy system needed standardization
- Opportunity for improved data consistency (e.g. AWWA Water Loss Model)
- Integrated other state and federal agency data needs

Database Advisory Committee

- Comprised of local, state, federal interests
 - Council members (water agencies, environmental groups, other interested parties)
 - CA Department of Water Resources
 - U.S. Bureau of Reclamation
 - CA Public Utilities Commission
- Analyzed the new MOU requirements
- Designed the best way to capture data necessary to meet needs of all parties

AB 1420



- Eligibility for urban water management grants or loans from:
 - CA Dept of Water Resource
 - State Water Resources Control Board
 - CA Bay-Delta Authority
- Dependent upon agencies meeting the BMP standards



DWR: Database Functionality

- View status of input forms and DWR review
- Print individual input forms or entire reports
- Status checkboxes to indicate DWR report review
- Notification e-mails sent upon DWR report review
- User account and submitted report management
- Queries and sub-queries to determine
 - Which agencies have not submitted data
 - Reports not checked by DWR
- AB 1420 Compliance reports

AB 1420 Database Reports



PLACEHOLDER

SBx7-7



- Legislated goal of reducing per capita urban water use by 20% by December 31, 2020
- DWR, in consultation with CUWCC, tasked to develop technical methodologies and criteria
- In process of developing GPCD target methodology #4

GPCD Model



Release Date: Nov 5, 2008

This spreadsheet-based GPCD calculator is designed to help quantify and track water uses associated with water distribution systems. The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons on the left below. Descriptions of each sheet are also given below.

It should be noted that all the recorded data should be from actual metered results and should not include any estimates.

All parties reserve the right to validate the data recorded in this document. This does not bind the OSE or the Utility to the results. It is a tool used for planning purposes.

THE FOLLOWING KEY APPLIES THROUGHOUT:

<input type="text"/>	Value to be entered by user	<input type="text"/>	No data entry required
<input type="list"/>	Dropdown box, pick from list		
<input type="text"/>	Value calculated based on input data		

Instructions
Guidance on completing the worksheet can be found by hovering the mouse over cells with a red border and red triangle in the upper right corner

Please begin by providing the following information, then proceed through each sheet in the workbook:

NAME OF CITY OR UTILITY:

REPORTING YEARS: FROM: TO:

NAME OF CONTACT PERSON: E-MAIL: TELEPHONE:
Ext.

NOTE: ALL DATA MUST BE ENTERED IN GALLONS

For Cubic feet converter click here

click below to access the following:

Instructions	This sheet
Census Data	Census data and the portal to get the data from the Census website
Single-Family	Single-Family residential gallons and population
Multi-Family	Multi-Family residential gallons and population
ICI & Other Metered	Other data including Commercial, Industrial and Institutional [1.3] and Other metered [1.4] categories
Reuse	Data related to water reuse projects
Total Diverted	Total Production and Diverted Water
Reported Data	The calculated data graphical review of most common performance indicators
Annual Performance	The calculated data graphical review of annual performance indicators

U.S. Bureau of Reclamation

- Central Valley Project Improvement Act of 1992
 - Applies to both Agriculture and Urban water service contractors
 - Requires Water Management Plans that meet Water Conservation and Efficiency Criteria
- Urban water contractors file annual updates to their WMPs via the Council's reporting website



USBR: Database Functionality

- View status of input forms and USBR review
- Print individual input forms or entire reports
- Status checkboxes to indicate report review by area offices and regional office
- Notification e-mails sent upon USBR report review
- User account and submitted report management
- Queries and sub-queries to determine
 - Which contractors have not submitted data
 - Reports not reviewed by USBR

USBR Database Reports



PLACEHOLDER

CPUC



- CPUC staff participated in the Database Advisory Committee
- CPUC and CUWCC in discussions to incorporate CPUC data needs into the new BMP reporting system

Summary



- Multiple reporting options expand agency flexibility in tracking water conservation programs
- New reporting system developed with input from Council members, local, state and federal agencies
- Agencies spend less time filing reports and can meet the requirements of multiple agencies at one time
- California assisted in meeting broader water conservation goals



Questions?

For additional information:

Beth Ernsberger
(916) 552-5885 x14
beth@cuwcc.org