

From Scott MATTHEW/DWR

TABLE 4B-2
BMP Water Savings Assumptions

BMP Number	BMP Name	MOU Savings Assumptions		Urban Water Use Study Modeling Assumptions
		Coverage Requirement	Reduction Factor	
1	Water Survey Programs for Single-Family and Multifamily Customers	15% of residential accounts.	<p><i>Pre-1980 Construction</i> Shower head replacement: 7.2 gpcd Toilet retrofit: 1.3 gpcd Landscape Audit: 10% of outdoor use</p> <p><i>Post-1980 Construction</i> Shower head replacement: 2.9 gpcd Toilet retrofit: 0 gpcd Landscape Audit: 10% of outdoor use</p>	Modeled based on MOU savings assumptions.
2	Residential Plumbing Retrofit	75% of single-family and multifamily residences.	<p><i>Pre-1980 Construction</i> Shower head replacement: 7.2 gpcd Toilet retrofit: 1.3 gpcd</p> <p><i>Post-1980 Construction</i> Shower head replacement: 2.9 gpcd Toilet retrofit: 0 gpcd</p>	Modeled based on MOU savings assumptions.
3	System Water Audits, Leak Detection, and Repair	Maintain active distribution system auditing program and repair system leaks when cost-effective.	Unaccounted water losses assumed to be no more than 10% of total water into the suppliers' system.	Not modeled because statewide average unaccounted water loss currently meets the MOU target value.
4	Metering with commodity rates for all new connections and retrofit of existing connections	100% of unmetered accounts to be metered and billed by volume of use.	20% reduction in demand by retrofitted accounts.	Modeled based on MOU savings assumptions.
5	Large Landscape Conservation Programs and Incentives	ET _o - based water use budgets for 90% of accounts with dedicated irrigation meters; irrigation water use surveys for 15% of CII accounts with mixed use meters.	15% reduction in irrigation water demand for surveyed landscapes.	Not modeled due to insufficient base year data on landscape water use and acreage.
6	High-Efficiency Washing Machine Rebate Programs	Cost-effective customer incentive for the purchase of high-efficiency washing machines to be offered if incentives are being offered by local energy provider or wastewater utility.	Not quantified at this time.	Not modeled due to "not quantified" status in MOU.

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BMP Water Savings Assumptions (continued)

BMP Number	BMP Name	MOU Savings Assumptions		Urban Water Use Study Modeling Assumptions
		Coverage Requirement	Reduction Factor	
7	Public Information Programs	Maintain an active public information program to promote and educate customers about water conservation.	Not quantified.	Not modeled due to "not quantified" status in MOU.
8	School Education Programs	Maintain an active school education program to educate students in agencies' service areas about water conservation and efficient water uses.	Not quantified.	Not modeled due to "not quantified" status in MOU.
9	Conservation Programs for Commercial, Industrial, and Institutional Accounts	10% of CII customers to accept a water use survey or reduce water use by CII customers by an amount equal to 10% of baseline CII water use.	<p><i>Commercial Water Use</i> 12% reduction in water use (gallons per employee per day) occurring from 1980-2000.</p> <p><i>Industrial Water Use</i> 15% reduction in water use (gallons per employee per day) occurring from 1980-2000.</p>	<p>Modeled based on MOU savings assumptions.</p> <p>Modeled based on MOU savings assumptions.</p>
10	Wholesale Agency Assistance Programs	Report on cost effectiveness of each BMP the agency is potential obligated to support, agency avoided cost per acre-foot of new water supplies, monetary value of financial incentive and resources provided to retail members to assist or support BMP implementation, and amount of verified water savings achieved by each wholesaler-assisted BMP.	Not quantified.	Not modeled due to "not quantified" status in MOU.
11	Conservation Pricing	Maintain rate structure consistent with the definition of conservation pricing specified in the MOU.	Not quantified.	Although not quantified by the MOU, this BMP was modeled on the basis of DWR water price forecasts and recent studies of urban water price elasticity in California.

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APPENDIX 4B

TABLE 4B-2
BMP Water Savings Assumptions (continued)

BMP Number	BMP Name	MOU Savings Assumptions		Urban Water Use Study Modeling Assumptions
		Coverage Requirement	Reduction Factor	
12	Conservation Coordinator	Maintain and staff the position of conservation coordinator and provide support staff as necessary.	Not quantified.	Not modeled due to "not quantified" status in MOU.
13	Water Waste Prohibition	Adopt water waste prohibitions consistent with the provisions specified in the MOU for this BMP.	Not quantified.	Not modeled due to "not quantified" status in MOU.
14	Residential ULFT Replacement Programs	Savings to equal or exceed water savings achievable through an ordinance requiring the replacement of high water using toilets with ULFTs upon resale.	At least as effective as requiring toilet replacement at the time of resale. (Exhibit 6 of the MOU presents a detailed methodology for estimating savings.)	Modeled based on MOU savings assumptions.

BMP 1, 2, 4 & 14 => RESIDENTIAL INDOOR

MOU ESTIMATED TO SAVE 500 TAF IN SOUTH COAST.

9 => COMMERCIAL

500

1, 4 => RESIDENTIAL OUTDOOR

2020 POPULATION = 24,327,000

75 GPCD => 65 = 270 TAF SAVINGS

~~500~~ SOUTH COAST INDOOR RESIDENTIAL

435 - 270 = 165 RESIDENTIAL INDOOR
 = 150 CIE
 = 90 DIST. SYSTEM
 330 - 35 = 295 LANDSCAPE

700 TAF OF ADDITIONAL CONSERVATION

PLUS RECYCLING OF 850 MAF

TOTAL USE REDUCED 1.5 MAF