

DRAFT - 2-9-17

CFWI PWS Quantifiable BMP Program Implementation (1)

BMP	A Estimated Number of Implementations in 2035 per 2015 RWSP	B Estimated Savings (mgd)	C Estimated Number of BMPs 2010-2015 per survey	D Estimated Number of Future Annual Implementations per survey	F=(B*1000000)/A Estimated Savings per Device per 2015 RWSP (gpd)	Savings for 16 respondents 2010-2015 (gpd)	Savings for 16 respondents 2015-2020 (gpd)
CII Facility Water Use Assessment/Audit	169	0.10	75	75	591.7	44,378.7	221,893.5
High-Efficiency Showerhead Replacement	527,728	8.66	104,754	10,011	16.4	1,719,009.9	821,401.0
High-Efficiency Toilet Replacement	373,215	7.45	3,907	1,255	20.0	77,990.3	125,259.6
High-Efficiency Faucet Aerator Replacement	1,057,602	7.35	116,941	11,210	6.9	812,703.0	389,529.8
High-Efficiency Pre-Rinse Spray Valve Replacement	307	0.20	1,287	0	651.5	838,436.5	-
High-Efficiency Urinal Replacement	3,808	0.30	2	1	78.8	157.6	393.9
Irrigation System Audits	99,605	1.21	14,603	1,807	12.1	177,397.0	109,757.0
Soil Moisture Sensors	28,617	1.51	100	0	52.8	5,276.6	-
Advanced ET Irrigation Controllers	2,845	0.26	198	36	91.4	18,094.9	16,449.9
Waterwise Florida Landscaping	3,956	0.87	42	20	219.9	9,236.6	21,991.9
TOTAL 10 BMPs for 16 respondents	2,097,852	27.91				3,702,681.1	1,706,676.6
Water Efficient Clothwashers (2)	0	0	2,025	500	11	22,275.0	27,500.0
Water Efficient Dishwashers (2)	0	0	108	20	0.8	86.4	80.0
Cisterns	0	0	3	0		-	-
Rain Barrels	0	0	1,431	251	Unknown	Unknown	Unknown
Rain Sensors	0	0	7,601	1,784	Unknown	Unknown	Unknown
Florida Water Star Rebates	0	0			Unknown	Unknown	Unknown
Low Flow Toilet	0	0	10,401	600	20.0	207,621.5	59,885.1
TOTAL with Other BMPs for 16 respondents						3,932,663.9	1,794,141.7
						First 5 Years for 16 respondents-70% of PWS demand	Next 5 Years for 16 respondents-70% of PWS demand
Total for ALL CFWI PWS for these BMPs assuming a 30% increase-Option 1						5,618,091.3	2,563,059.5
Total for ALL CFWI PWS for these BMPs assuming a 20% increase-Option 2						4,915,829.9	2,242,677.1
Total for ALL CFWI PWS for these BMPs assuming a 10% increase-Option 3						4,369,626.6	1,993,490.7
Add in Funding Projects not covered by survey BMPs and Savings Included (still waiting for confirmation from some utilities)						74,246.0	2,275,069.0
Grand Total CFWI PWS BMPs and Funded Quantified Funding Projects - Option 1					Range of Estimated Savings for Quantifiable BMPs	5,692,337.33	4,838,128.54
Grand Total CFWI PWS BMPs and Funded Quantified Funding Projects - Option 2						4,990,075.91	4,517,746.09
Grand Total CFWI PWS BMPs and Funded Quantified Funding Projects - Option 3						4,443,872.59	4,268,559.75

Notes:
(1) Does not include other water savings conservation initiatives such as education, inclining block rates, behavioral programs, water enforcement programs, FL Water Star Programs, utility audits, utility leak detection, customer audits, etc. The savings for these programs have not been quantified.