

EVALUATION OF CALIFORNIA WEATHER-BASED “SMART” IRRIGATION CONTROLLER PROGRAMS REVISED RESULTS

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DOCKET

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Change In Water Use

Site Location	Weather-Normalized Total Change in Water Use		
	kgal	hcf	acre-feet
All Sites	-108,418.5	-144,941.9	-330.0
Northern Sites	-50,215.0	-67,131.2	-152.8
Southern Sites	-58,203.4	-77,810.7	-177.1

Site Locations	Weather-Normalized Change in Outdoor Use Descriptive and Validatory Statistics					
	N	Mean	Std. Deviation	95% Conf. Boundary	Statistically Significant Reduction?	% Change
All Sites	2294	-47.3	669.5	27.4	Yes	-6.1%
Northern Sites	411	-122.2	1305.2	126.2	No	-6.8%
Southern Sites	1883	-30.9	416.5	18.8	Yes	-5.6%

Change in Water Use 2

Site Location	N	Weather-Normalized Change in Outdoor Water Use						
		Area (sf)		Per Site Change In Irrigation Volume (kgal/year)		Gallons/Square Foot		% Change in Outdoor Use
		Mean	Median	Mean	Median	Mean	Median	Mean
All Sites	2294	28385.7	6534.0	-47.3	-6.5	-1.7	-1.0	-6.1%
Northern Sites	411	73132.6	23786.0	-122.2	-15.6	-1.7	-0.7	-6.8%
Southern Sites	1883	18618.9	4313.2	-30.9	-5.7	-1.7	-1.3	-5.6%

Comparison of Results by Pre-Application Ratio and Excess Use Analysis

Statistic	Pre-Application Ratio $\leq 100\%$	Pre-Application Ratio $> 100\%$
N	1079	1215
N %	47.0%	53.0%
Irrigated area (sf)	30,819	26,225
Avg. Pre-Application Rate (in)	19.9	85
Avg. Post-Application Rate (in)	24.1	77.6
Avg. Pre-Application Ratio (%)	55.2%	236.6%
Avg. Post-Application Ratio (%)	64.1%	201.4%
Avg. Δ AR	0.089	-0.353
Avg. Weather-Normalized Change in Outdoor Use (kgal)	1.49	-90.6
% Change in Weather-Normalized Outdoor Use	0.43%	-7.8%
Avg. Post-Installation Outdoor Use (kgal)	361.4	1,108.3
Avg. Post-Install Excess Use (kgal)	-329.8	487.5
Post-Use that is Excess (%)	NA	44.0%