

**Appendix N:
2011-2015 Regional Water Use Efficiency Program
Water Savings**

*from
Inland Empire Utilities Agency's
Annual Water Use Efficiency Programs Report
FY 2014-2015*

MONTE VISTA WATER DISTRICT
Annual Water Use Efficiency Programs Report
FY 2014-2015



Monte Vista Water District IEUA Regional Conservation Programs Annual Report

Program	District Devices/ Rebates	Gallons Saved (year)	AF Saved (year)	AF Saved Lifetime	Funding Sources (dollars)			Payback Period (years) ⁽¹⁾	
					Outside Funding	IEUA	MWD		Total
FY 2014-2015									
SoCal Water\$mart Residential Rebates									
High Efficiency Toilets (HET)	66	914,150	3	56	\$0	\$3,300	\$3,300	\$6,600	3.1
High Efficiency Clothes Washers (HECW)	51	458,737	1	21	\$0	\$3,315	\$4,335	\$7,650	7.2
Rotating Nozzles for Pop-up Spray Heads	15	19,551	0	0	\$0	\$15	\$60	\$75	1.7
Weather based Irrigation Controllers (WBIC)	3	317,753	1	10	\$0	\$210	\$240	\$450	0.6
Turf Removal (6,908 Sq. Ft.)	3	977,700.00	0.89	9	\$0	\$0	\$12,770	\$12,770	19.1
Rain Barrels	5	529,508	2	16	\$0	\$0	\$375	\$375	0.3
IEUA Locally Implemented Residential Programs									
FreeSprinklerNozzles.com Program	2,426	3,162,058	10	49	\$0	\$0	\$8,190	\$8,190	1.1
Residential Landscape Retrofit Program (112 WBIC/1,785 Nozzles)	72	14,339,600	44	403	\$64,912	\$0	\$64,912	\$129,825	3.9
Landscape Transformation Program (19,028 Sq. Ft.)	21	306,607	1	9	\$0	\$25,417	\$38,056	\$63,473	89.7
Subtotal	2,662	21,025,663	62	573	\$64,912	\$32,257	\$132,238	\$229,407	127
SoCal Water\$mart Commercial Rebates									
High Efficiency Toilets (HET)	0	0	0	0	\$0	\$90	\$200	\$290	0.0
Waterless Urinals	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Cooling Tower Controller	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Weather Based Irrigation Controllers (WBIC)	0	0	0	0	\$0	\$0	\$184	\$0	0.0
Rotating Nozzles for Pop-up Spray Heads	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Large Rotary Nozzles	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Central Computerized Irrigation Controller	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Laminar Flow Restrictor	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Air-Cooled Ice Machine	1	65,180	0	1	\$0	\$930	\$1,000	\$1,930	12.8
Turf Removal (15,020 Sq. Ft.)	5	636,352	2	20	\$0	\$15,020	\$30,040	\$45,060	30.7
IEUA Locally Implemented Commercial Programs									
FreeSprinklerNozzles.com Program	200	260,720	1	4	\$0	\$0	\$650	\$650	1.1
Subtotal	206	962,252	3	25	\$0	\$16,040	\$32,074	\$47,931	
TOTAL	2,868	21,987,915	65	598	\$64,912	\$48,297	\$164,312	\$277,338	

⁽¹⁾ Payback period = $\frac{\text{Total direct program costs}}{\text{AF saved/year} \times \text{MWD Tier II rate/AF}}$

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					Outside Funding	IEUA	MWD		Total
FY 2013-2014									
SoCal Water\$mart Residential Rebates									
High Efficiency Toilets (HET)	39	540,098	2	33	\$0	\$1,950	\$1,950	\$3,900	3.1
High Efficiency Clothes Washers (HECW)	38	341,753	1	16	\$0	\$2,470	\$3,230	\$5,700	7.2
Rotating Nozzles for Pop-up Spray Heads	2	2,607	0	0	\$0	\$2	\$8	\$10	1.7
Weather based Irrigation Controllers (WBIC)	2	211,803	1	7	\$0	\$140	\$160	\$300	0.6
Rain Barrels	0	0	0	0	\$0	\$0	\$0	\$0	0.0
IEUA Locally Implemented Residential Programs									
FreeSprinklerNozzles.com Program	712	928,024	3	14	\$0	\$0	\$7,394	\$7,394	3.5
Residential Landscape Retrofit Program (55 WBIC/347 Nozzles)	32	6,192,100	19	188	\$15,310	\$0	\$15,310	\$30,619	2.1
Landscape Transformation Program (6,720 Sq. Ft.)	7	306,607	1	9	\$0	\$13,414	\$6,720	\$20,134	28.5
Subtotal	832	8,522,991	26	267	\$15,310	\$17,976	\$34,771	\$68,056	47
SoCal Water\$mart Commercial Rebates									
High Efficiency Toilets (HET)	2	27,697	0	2	\$0	\$90	\$200	\$290	4.5
Waterless Urinals	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Cooling Tower Controller	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Weather Based Irrigation Controllers (WBIC)	2	211,803	1	7	\$0	\$0	\$184	\$0	0.0
Rotating Nozzles for Pop-up Spray Heads	48	62,563	0	1	\$0	\$48	\$192	\$240	1.7
Large Rotary Nozzles	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Central Computerized Irrigation Controller	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Laminar Flow Restrictor	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Air-Cooled Ice Machine	0	65,170	0	1	\$0	\$0	\$0	\$0	0.0
Turf Removal	0	0	0	0	\$0	\$0	\$0	\$0	0.0
IEUA Locally Implemented Commercial Programs									
FreeSprinklerNozzles.com Program	1,460	1,902,970	6	29	\$0	\$0	\$4,745	\$4,745	1.1
Subtotal	1,512	2,270,204	7	40	\$0	\$138	\$5,321	\$5,276	
TOTAL	2,344	10,793,195	33	307	\$15,310	\$18,114	\$40,092	\$73,332	

⁽¹⁾ Payback period =
$$\frac{\text{Total direct program costs}}{\text{AF saved/year} \times \text{MWD Tier II rate/AF}}$$

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Program	District Devices/ Rebates	Gallons Saved (year)	AF Saved (year)	AF Saved Lifetime	Funding Sources (dollars)			Payback Period (years) ⁽¹⁾	
					Outside Funding	IEUA	MWD		Total
FY 2012-2013									
SoCal Water\$mart Residential Rebates									
High Efficiency Toilets (HET)	0	0	0	0	\$0	\$0	\$0	\$0	0.0
High Efficiency Clothes Washers (HECW)	50	449,674	1.38	20.70	\$0	\$3,250	\$4,250	\$7,500	7.5
Rotating Nozzles for Pop-up Spray Heads	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Weather based Irrigation Controllers (WBIC)	5	529,508	1.63	16.25	\$0	\$350	\$400	\$750	0.6
IEUA Locally Implemented Residential Programs									
FreeSprinklerNozzles.com Program	1,575	2,052,861	6	63	\$0	\$0	\$7,394	\$7,394	1.6
Residential Landscape Retrofit Program	20	5,214,400	16	145	\$10,305	\$1,678	\$11,982	\$23,965	2.1
Landscape Transformation Program (4,732 Sq. Ft.)	6	199,477	1	6	\$1,183	\$3,629	\$4,732	\$9,544	21.4
Subtotal	1,656	8,445,920	26	251	\$11,488	\$8,907	\$28,758	\$49,153	33
IEUA High Efficiency Toilet (HET) Installation Prog.									
IEUA Multi-Family Direct Install Prog. (HET)	4	55,395	0.17	3.4	\$293	\$143	\$200	\$636	5.1
IEUA Single-Family Direct Install Prog. (HET)	96	1,329,472	4.08	81.6	\$7,041	\$3,423	\$4,800	\$15,264	5.1
Subtotal	100	1,384,867	4	85	\$7,334	\$3,566	\$5,000	\$15,900	
SoCal Water\$mart Commercial Rebates									
High Efficiency Toilets (HET)	11	152,335	0.47	9.35	\$0	\$550	\$550	\$1,100	3.2
Waterless Urinals	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Cooling Tower Controller	0	0	0	0	\$0	\$0	\$0	\$0	0.0
High Efficiency Clothes Washers	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Weather based Irrigation Controllers (WBIC)	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Rotating Nozzles for Pop-up Spray Heads	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Large Rotary Nozzles	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Central Computerized Irrigation Controller	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Laminar Flow Restrictor	30	224,837	0.69	3	\$0	\$300	\$300	\$600	1.2
Air-Cooled Ice Machine	1	65,170	0.20	1.40	\$0	\$930	\$1,000	\$1,930	13.3
IEUA Locally Implemented Commercial Programs									
Fontana Unified School Retrofit Program	0	0	0	0	\$0	\$0	\$0	\$0	0.0
FreeSprinklerNozzles.com Program	282	367,560	1.13	5.64	\$0	\$0	\$917	\$917	1.1
Subtotal	324	809,903	2	20	\$0	\$1,780	\$2,767	\$4,548	
TOTAL	2,080	10,640,690	33	356	\$18,822	\$14,253	\$36,524	\$69,600	

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					DWR	IEUA	MWD	Total	
FY 2011-2012									
Residential Rebate Programs									
High Efficiency Clothes Washers (HECW)	54	485,648	1.49	22.36	0	0	4,590	4,590	4.5
Rotating Nozzles for Pop-up Spray Heads	40	52,136	0.16	0.80	0	80	120	200	1.8
Weather Based Irrigation Controllers (WBIC)	1	105,902	0.33	3.25	0	45	80	125	0.6
FreeSprinklerNozzles.com Program	2,197	2,863,579	9	87.88	0	0	6,825	6,825	1.1
Residential Landscape Retrofit Program	3	977,700	3	25.00	0	2,167	1,858	4,025	2.0
Subtotal	2,295	4,484,965	14	139.29	0.00	2,292.00	13,473.37	15,765.37	
IEUA Multi-Family Direct Install Prog. (HET)									
IEUA Multi-Family Direct Install Prog. (HET)	9	124,638	0.38	7.65	660	321	450	1,431	7.5
IEUA Single-Family Direct Install Prog. (HET)	143	1,980,359	6.08	121.55	10,488	5,099	7,150	22,737	7.5
Subtotal	152	2,104,997	6	129.20	11,147.68	5,420	7,600	24,168.00	
CII Save-A-Buck Rebate Program									
High Efficiency Toilets (HET)	0	0	0.00	0.00	0	0	0	0	0.0
Waterless Urinals	5	199,910	0.61	12.27	0	250	1,000	1,250	3.0
Conductivity Controller	0	0	0.00	0.00	0	0	0	0	0.0
High Efficiency Clothes Washers	0	0	0.00	0.00	0	0	0	0	0.0
Weather Based Irrigation Controllers (WBIC)	17	1,800,327	5.53	55.25	0	6,120	10,200	16,320	4.3
Rotating Nozzles for Pop-up Spray Heads	0	0	0.00	0.00	0	0	0	0	0.0
Large Rotary Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
FreeSprinklerNozzles.com Program	2,889	3,765,534	11.56	115.56	0	0	37,557	37,557	4.8
Central Computerized Irrigation Controller	0	0	0	0.00	0	0	0	0	0.0
Subtotal	2,911	5,765,771	18	183.08	1.00	6,370.00	48,757.00	55,128.00	
TOTAL	5,358	12,355,733	38	451.57	11,148.68	14,082.32	69,830.37	95,061.37	

⁽¹⁾ Payback period = $\frac{\text{Total direct program costs}}{\text{AF saved/year} \times \text{MWD Tier II rate/AF}}$

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					DWR	IEUA	MWD	Total	
FY 2010-2011									
Residential Rebate Programs									
High Efficiency Toilets (HET)	2	27,697	0.09	1.70	0	70	100	170	4.0
High Efficiency Clothes Washers (HECW)	94	845,388	2.59	38.92	0	0	7,990	7,990	6.2
Rotating Nozzles for Pop-up Spray Heads	150	195,511	0.60	3.00	0	300	450	750	0.0
Weather Based Irrigation Controllers (WBIC)	4	423,606	1.30	13.00	0	180	320	500	0.0
Synthetic Turf (0 Sq. Ft.)	0	0	0.00	0.00	0	0	0	0	0.0
FreeSprinklerNozzles.com Program	91	118,610	0	3.64	0	0	6,825	6,825	1.0
Residential Landscape Retrofit Program	10	2,933,100	9	85.00	0	5,662	5,482	11,144	2.0
Subtotal	351	4,543,912	14	145.26	0.00	6,212.39	21,166.89	27,379.28	
IEUA Multi-Family Direct Install Prog. (HET)									
IEUA Multi-Family Direct Install Prog. (HET)	11	152,335	0.47	9.35	807	392	550	1,749	7.5
Subtotal	11	152,335	0	9.35	806.74	392	550	1,749.00	
CII Save-A-Buck Rebate Program									
High Efficiency Toilets (HET)	1	13,849	0.04	0.85	0	135	165	300	0.0
Waterless Urinals	14	559,747	1.72	34.36	0	700	2,800	3,500	0.0
Conductivity Controller	0	0	0.00	0.00	0	0	0	0	0.0
Weather Based Irrigation Controllers (WBIC)	0	0	0.00	0.00	0	0	0	0	0.0
Synthetic Turf (0 Sq. Ft.)	0	0	0.00	0.00	0	0	0	0	0.0
Rotating Nozzles for Pop-up Spray Heads	0	0	0.00	0.00	0	0	0	0	0.0
Large Rotary Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
Subtotal	15	573,596	2	35.21	0.00	835	2,965	3,800.00	
TOTAL	377	5,269,843	16	189.81	806.74	7,439.65	24,681.89	32,928.28	

⁽¹⁾ Payback period = $\frac{\text{Total direct program costs}}{\text{AF saved/year} \times \text{MWD Tier II rate/AF}}$