

## **Appendix A**

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### **DWR 2015 UWMP Checklist**



**City of Upland**  
**Appendix A**  
**DWR 2015 Urban Water Management Plan Checklist**

<b>CWC Section</b>	<b>UWMP Requirement</b>	<b>Subject</b>	<b>Guide-book Location</b>	<b>UWMP Location</b>
10620(b)	Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.	Plan Preparation	Section 2.1	<b>Section 1.1</b>
10620(d)(2)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan Preparation	Section 2.5.2	<b>Section 2.2</b>
10642	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	Plan Preparation	Section 2.5.2	<b>Sections 10.2, 10.3, 10-4; Appendix H</b>
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	<b>Section 3.1</b>
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	<b>Section 3.2</b>
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	<b>Section 3.4</b>
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	<b>Section 3.4</b>
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Sections 3.4 and 5.4	<b>Section 3.4</b>
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	<b>Sections 4.1, 4.2</b>
10631(e)(3)(A)	Report the distribution system water loss for the most recent 12-month period available.	System Water Use	Section 4.3	<b>Section 4.3</b>
10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the supplier.	System Water Use	Section 4.5	<b>Section 4.5</b>
10608.20(b)	Retail suppliers shall adopt a 2020 water use target using one of four methods.	Baselines and Targets	Section 5.7 and App E	<b>Section 5.2</b>
10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target, interim urban water use	Baselines and Targets	Chapter 5 and App E	<b>Sections 5.1, 5.2</b>

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	target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.			
<b>10608.22</b>	Retail suppliers' per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use of the 5 year baseline. This does not apply if the suppliers base GPCD is at or below 100.	Baselines and Targets	Section 5.7.2	<b>Section 5.1</b>
<b>10608.24(a)</b>	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	<b>Section 5.2.1</b>
<b>10608.24(d)(2)</b>	If the retail supplier adjusts its compliance district using weather normalization, economic adjustment, or extraordinary events, it shall provide the basis for, and data supporting the adjustment.	Baselines and Targets	Section 5.8.2	<b>NA</b>
<b>10608.36</b>	Wholesale suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their retail water suppliers achieve targeted water use reductions.	Baselines and Targets	Section 5.1	<b>NA</b>
<b>10608.40</b>	Retail suppliers shall report on their progress in meeting their water use targets. The data shall be reported using a standardized form.	Baselines and Targets	Section 5.8 and App E	<b>Appendix D</b>
<b>10631(b)</b>	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	<b>Chapter 6</b>
<b>10631(b)</b>	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	<b>Section 6.2</b>
<b>10631(b)(1)</b>	Indicate whether a groundwater management plan has been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System Supplies	Section 6.2.2	<b>Section 6.2 Appendix E</b>
<b>10631(b)(2)</b>	Describe the groundwater basin.	System Supplies	Section 6.2.1	<b>Section 6.2</b>
<b>10631(b)(2)</b>	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the supplier has the legal right to pump.	System Supplies	Section 6.2.2	<b>Section 6.2 Appendix F</b>
<b>10631(b)(2)</b>	For unadjudicated basins, indicate whether or not the department has identified the basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.	System Supplies	Section 6.2.3	<b>Section 6.2.1</b>
<b>10631(b)(3)</b>	Provide a detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by	System Supplies	Section 6.2.4	<b>Section 6.2</b>

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	the urban water supplier for the past five years			
<b>10631(b)(4)</b>	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System Supplies	Sections 6.2 and 6.9	<b>Section 6.2</b>
<b>10631(d)</b>	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	<b>Section 6.7</b>
<b>10631(g)</b>	Describe the expected future water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years.	System Supplies	Section 6.8	<b>Section 6.8</b>
<b>10631(h)</b>	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	<b>Section 6.6</b>
<b>10631(j)</b>	Retail suppliers will include documentation that they have provided their wholesale supplier(s) – if any - with water use projections from that source.	System Supplies	Section 2.5.1	<b>Section 2.2</b>
<b>10631(j)</b>	Wholesale suppliers will include documentation that they have provided their urban water suppliers with identification and quantification of the existing and planned sources of water available from the wholesale to the urban supplier during various water year types.	System Supplies	Section 2.5.1	<b>NA</b>
<b>10633</b>	For wastewater and recycled water, coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.1	<b>Section 6.5.1</b>
<b>10633(a)</b>	Describe the wastewater collection and treatment systems in the supplier's service area. Include quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.	System Supplies (Recycled Water)	Section 6.5.2	<b>Section 6.5.2</b>
<b>10633(b)</b>	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System Supplies (Recycled Water)	Section 6.5.2.2	<b>Section 6.5</b>
<b>10633(c)</b>	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.3 and 6.5.4	<b>Section 6.5.3</b>
<b>10633(d)</b>	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System Supplies (Recycled Water)	Section 6.5.4	<b>Section 6.5.3</b>
<b>10633(e)</b>	Describe the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	System Supplies (Recycled Water)	Section 6.5.4	<b>Section 6.5.3</b>

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<b>10633(f)</b>	Describe the actions which may be taken to encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	System Supplies (Recycled Water)	Section 6.5.5	<b>Section 6.5.3</b>
<b>10633(g)</b>	Provide a plan for optimizing the use of recycled water in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.5	<b>Section 6.5.3</b>
<b>10620(f)</b>	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water Supply Reliability Assessment	Section 7.4	<b>Section 7.4</b>
<b>10631(c)(1)</b>	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	<b>Section 7.1</b>
<b>10631(c)(1)</b>	Provide data for an average water year, a single dry water year, and multiple dry water years	Water Supply Reliability Assessment	Section 7.2	<b>Section 7.2</b>
<b>10631(c)(2)</b>	For any water source that may not be available at a consistent level of use, describe plans to supplement or replace that source.	Water Supply Reliability Assessment	Section 7.1	<b>Chapter 7</b>
<b>10634</b>	Provide information on the quality of existing sources of water available to the supplier and the manner in which water quality affects water management strategies and supply reliability	Water Supply Reliability Assessment	Section 7.1	<b>Section 7.1</b>
<b>10635(a)</b>	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years.	Water Supply Reliability Assessment	Section 7.3	<b>Section 7.3</b>
<b>10632(a) and 10632(a)(1)</b>	Provide an urban water shortage contingency analysis that specifies stages of action and an outline of specific water supply conditions at each stage.	Water Shortage Contingency Planning	Section 8.1	<b>Chapter 8</b>
<b>10632(a)(2)</b>	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency.	Water Shortage Contingency Planning	Section 8.9	<b>Section 8.10</b>
<b>10632(a)(3)</b>	Identify actions to be undertaken by the urban water supplier in case of a catastrophic interruption of water supplies.	Water Shortage Contingency Planning	Section 8.8	<b>Section 8.9</b>
<b>10632(a)(4)</b>	Identify mandatory prohibitions against specific water use practices during water shortages.	Water Shortage Contingency Planning	Section 8.2	<b>Section 8.3</b>
<b>10632(a)(5)</b>	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	<b>Section 8.5</b>
<b>10632(a)(6)</b>	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency Planning	Section 8.3	<b>Section 8.4</b>

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<b>10632(a)(7)</b>	Provide an analysis of the impacts of each of the actions and conditions in the water shortage contingency analysis on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts.	Water Shortage Contingency Planning	Section 8.6	<b>Section 8.7</b>
<b>10632(a)(8)</b>	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	<b>Section 8.9 Appendix F</b>
<b>10632(a)(9)</b>	Indicate a mechanism for determining actual reductions in water use pursuant to the water shortage contingency analysis.	Water Shortage Contingency Planning	Section 8.5	<b>Section 8.6</b>
<b>10631(f)(1)</b>	Retail suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand Management Measures	Sections 9.2 and 9.3	<b>Sections 9.2, 9.3</b>
<b>10631(f)(2)</b>	Wholesale suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and supplier assistance program.	Demand Management Measures	Sections 9.1 and 9.3	<b>NA</b>
<b>10631(i)</b>	CUWCC members may submit their 2013-2014 CUWCC BMP annual reports in lieu of, or in addition to, describing the DMM implementation in their UWMPs. This option is only allowable if the supplier has been found to be in full compliance with the CUWCC MOU.	Demand Management Measures	Section 9.5	<b>Section 9.5 Appendix G</b>
<b>10608.26(a)</b>	Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets.	Plan Adoption, Submittal, and Implementation	Section 10.3	<b>Section 10.2</b>
<b>10621(b)</b>	Notify, at least 60 days prior to the public hearing, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.	Plan Adoption, Submittal, and Implementation	Section 10.2.1	<b>Section 10.2</b>
<b>10621(d)</b>	Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.	Plan Adoption, Submittal, and Implementation	Sections 10.3.1 and 10.4	<b>Section 10.4</b>
<b>10635(b)</b>	Provide supporting documentation that Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	<b>Section 10.4</b>
<b>10642</b>	Provide supporting documentation that the urban water supplier made the plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan.	Plan Adoption, Submittal, and Implementation	Sections 10.2.2, 10.3, and 10.5	<b>Chapter 10</b>

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<b>10642</b>	The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water.	Plan Adoption, Submittal, and Implementation	Sections 10.2.1	<b>Sections 10.2, 10.3</b>
<b>10642</b>	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	<b>Appendix H</b>
<b>10644(a)</b>	Provide supporting documentation that the urban water supplier has submitted this UWMP to the California State Library.	Plan Adoption, Submittal, and Implementation	Section 10.4.3	<b>Appendix H</b>
<b>10644(a)(1)</b>	Provide supporting documentation that the urban water supplier has submitted this UWMP to any city or county within which the supplier provides water no later than 30 days after adoption.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	<b>Appendix H</b>
<b>10644(a)(2)</b>	The plan, or amendments to the plan, submitted to the department shall be submitted electronically.	Plan Adoption, Submittal, and Implementation	Sections 10.4.1 and 10.4.2	<b>Section 10.4</b>
<b>10645</b>	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the supplier has or will make the plan available for public review during normal business hours.	Plan Adoption, Submittal, and Implementation	Section 10.5	<b>Appendix H</b>

## **Appendix B**

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### **References**



## Appendix B – References

DWR, 2016. “2015 UWMP Guidebook for Urban Water Suppliers” including appendices, UWMP tables, and SB x7-7 tables, prepared by California Department of Water Resources. Final March 11, 2016.

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MWD, 2015. “Regional Urban Water Management Plan” prepared by Metropolitan Water District of Southern California. Draft December 2015.

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SCAG, 2016a. “Adopted 2012 RTP Growth Forecast” population projections for 2020 and 2035 prepared by Southern California Association of Governments. Website accessed March 2016.

<http://gisdata.scag.ca.gov/Pages/SocioEconomicLibrary.aspx>

\_\_\_\_\_, 2016b. “Regional, County, and City Population and Employment Estimates and Projections”, Table I-1 Population Estimates for California and SCAG Region Counties and Cities 1970-2012. Website accessed March 2016.

Upland, 2011a. “2010 Urban Water Management Plan”, prepared by the City of Upland in association with Water Resources Planning. June 2011.

\_\_\_\_\_, 2011b. “Strategic Water Supply Plan”, prepared by Water Resources Planning for the City of Upland. July 2011.

\_\_\_\_\_, 2014. “Housing Element, 2013-2021”. Prepared by the City of Upland. January 2014.

\_\_\_\_\_, 2008. “Recycled Water Master Plan”, prepared by MWH for the City of Upland. July 2008.

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## **Appendix C**

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### **Water Losses**





# AWWA Free Water Audit Software: Water Balance

WAS v5.0

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Water Audit Report for:	<b>City of Upland</b>	
Reporting Year:	<b>2015</b>	<b>7/2014 - 6/2015</b>
Data Validity Score:	<b>53</b>	

	Water Exported	Billed Water Exported				
	778.000	Authorized Consumption	Billed Authorized Consumption	Billed Metered Consumption (water exported is removed)	Revenue Water	
Own Sources (Adjusted for known errors)  6,846.000	Water Supplied  19,214.000	19,172.000	19,170.000	19,170.000	19,170.000	
			Billed Unmetered Consumption	0.000	19,170.000	
		Water Losses	42.000	Unbilled Authorized Consumption	Unbilled Metered Consumption	Non-Revenue Water (NRW)
				2.000	0.000	
Water Imported  13,146.000			Real Losses  21.000	Unauthorized Consumption	44.000	
				1.000		
				Customer Metering Inaccuracies		0.000
				Systematic Data Handling Errors		20.000
				Leakage on Transmission and/or Distribution Mains		Not broken down
Leakage and Overflows at Utility's Storage Tanks	Not broken down					
				Leakage on Service Connections	Not broken down	



## **Appendix D**

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### **SB X7-7 Tables**



## Appendix D

### SB X7-7 Verification Tables

SB X7-7 Table 0: Units of Measure Used in UWMP* (select one from the drop down list)
Acre Feet
*The unit of measure must be consistent with Table 2-3
NOTES:

SB X7-7 Table-1: Baseline Period Ranges			
Baseline	Parameter	Value	Units
10- to 15- year baseline period	2008 total water deliveries	22,289	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period <sup>1, 2</sup>	10	Years
	Year beginning baseline period range	1996	
	Year ending baseline period range <sup>3</sup>	2005	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2005	
	Year ending baseline period range <sup>4</sup>	2009	
<p><sup>1</sup>If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. <sup>2</sup>The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.</p>			
<p><sup>3</sup>The ending year must be between December 31, 2004 and December 31, 2010.</p>			
<p><sup>4</sup>The ending year must be between December 31, 2007 and December 31, 2010.</p>			
NOTES:			

<b>SB X7-7 Table 2: Method for Population Estimates</b>	
Method Used to Determine Population (may check more than one)	
<input checked="" type="checkbox"/>	<b>1. Department of Finance (DOF)</b> DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
<input type="checkbox"/>	<b>2. Persons-per-Connection Method</b>
<input type="checkbox"/>	<b>3. DWR Population Tool</b>
<input type="checkbox"/>	<b>4. Other</b> DWR recommends pre-review
NOTES: Updated US Census data for 2000 and 2010 Upland population did not change from that used in 2010 UWMP. However, interim year population changed per SCAG 2012 data. 2015 population from DOF March 24, 2016.	

<b>SB X7-7 Table 3: Service Area Population</b>		
Year		Population
10 to 15 Year Baseline Population		
Year 1	1996	65,566
Year 2	1997	65,961
Year 3	1998	66,676
Year 4	1999	67,289
Year 5	2000	68,393
Year 6	2001	69,058
Year 7	2002	70,357
Year 8	2003	71,200
Year 9	2004	71,831
Year 10	2005	72,216
5 Year Baseline Population		
Year 1	2005	72,216
Year 2	2006	72,197
Year 3	2007	72,981
Year 4	2008	72,654
Year 5	2009	72,715
2015 Compliance Year Population		
<b>2015</b>		<b>75,787</b>
NOTES: 2015 DOF Population Estimates		

Appendix D – SB X7-7 Verification Tables

SB X7-7 Table 4: Annual Gross Water Use *								
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>		
<b>10 to 15 Year Baseline - Gross Water Use</b>								
Year 1	1996	20,906			-		-	20,906
Year 2	1997	21,059			-		-	21,059
Year 3	1998	19,044			-		-	19,044
Year 4	1999	22,030			-		-	22,030
Year 5	2000	22,824			-		-	22,824
Year 6	2001	21,488			-		-	21,488
Year 7	2002	21,968			0.007		-	21,968
Year 8	2003	20,794			-		-	20,794
Year 9	2004	21,474			-		-	21,474
Year 10	2005	20,247			-		-	20,247
<i>Year 11</i>	0	-			-		-	-
<i>Year 12</i>	0	-			-		-	-
<i>Year 13</i>	0	-			-		-	-
<i>Year 14</i>	0	-			-		-	-
<i>Year 15</i>	0	-			-		-	-
<b>10 - 15 year baseline average gross water use</b>								<b>21,183</b>
<b>5 Year Baseline - Gross Water Use</b>								
Year 1	2005	20,247			-		-	20,247
Year 2	2006	21,932			-		-	21,932
Year 3	2007	23,832			-		-	23,832
Year 4	2008	22,289			-		-	22,289
Year 5	2009	22,073			-		-	22,073
<b>5 year baseline average gross water use</b>								<b>22,075</b>
<b>2015 Compliance Year - Gross Water Use</b>								
<b>2015</b>		19,214	-		1,006		-	<b>18,208</b>
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								
NOTES:								

<b>SB X7-7 Table 4-A: Volume Entering the Distribution System(s)</b> Complete one table for each source.				
<b>Name of Source</b>		All		
<b>This water source is:</b>				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System
<b>10 to 15 Year Baseline - Water into Distribution System</b>				
Year 1	1996	20,906		20,906
Year 2	1997	21,059		21,059
Year 3	1998	19,044		19,044
Year 4	1999	22,030		22,030
Year 5	2000	22,824		22,824
Year 6	2001	21,488		21,488
Year 7	2002	21,968		21,968
Year 8	2003	20,794		20,794
Year 9	2004	21,474		21,474
Year 10	2005	20,247		20,247
<b>5 Year Baseline - Water into Distribution System</b>				
Year 1	2005	20,247		20,247
Year 2	2006	21,932		21,932
Year 3	2007	23,832		23,832
Year 4	2008	22,289		22,289
Year 5	2009	22,073		22,073
<b>2015 Compliance Year - Water into Distribution System</b>				
	<b>2015</b>	19,214		19,214
* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document				
NOTES:				

<b>SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction</b> <i>(For use only by agencies that are deducting indirect recycled water)</i>										
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		<b>Surface Reservoir Augmentation</b>					<b>Groundwater Recharge</b>			<b>Total Deductible Volume of Indirect Recycled Water Entering the Distribution System</b>
		Volume Discharged from Reservoir for Distribution System Delivery	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/Treatment Loss	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility*	Transmission/Treatment Losses	Recycled Volume Entering Distribution System from Groundwater Recharge	
<b>10-15 Year Baseline - Indirect Recycled Water Use</b>										
Year 1	1996			-		-			-	-
Year 2	1997			-		-			-	-
Year 3	1998			-		-			-	-
Year 4	1999			-		-			-	-
Year 5	2000			-		-			-	-
Year 6	2001			-		-			-	-
Year 7	2002			-		-	0.007		-	-
Year 8	2003			-		-			-	-
Year 9	2004			-		-			-	-
Year 10	2005			-		-			-	-
<b>5 Year Baseline - Indirect Recycled Water Use</b>										
Year 1	2005			-		-			-	-
Year 2	2006			-		-			-	-
Year 3	2007			-		-			-	-
Year 4	2008			-		-			-	-
Year 5	2009			-		-			-	-
<b>2015 Compliance - Indirect Recycled Water Use</b>										
	<b>2015</b>			-		-	1,006		1,006	1,006
<p><i>*Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.</i></p> <p>NOTES:</p>										

**Appendix D – SB X7-7 Verification Tables**

<b>SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)</b>				
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		<b>Service Area Population</b> <i>Fm SB X7-7 Table 3</i>	<b>Annual Gross Water Use</b> <i>Fm SB X7-7 Table 4</i>	<b>Daily Per Capita Water Use (GPCD)</b>
<b>10 to 15 Year Baseline GPCD</b>				
Year 1	1996	65,566	20,906	285
Year 2	1997	65,961	21,059	285
Year 3	1998	66,676	19,044	255
Year 4	1999	67,289	22,030	292
Year 5	2000	68,393	22,824	298
Year 6	2001	69,058	21,488	278
Year 7	2002	70,357	21,968	279
Year 8	2003	71,200	20,794	261
Year 9	2004	71,831	21,474	267
Year 10	2005	72,216	20,247	250
<b>10-15 Year Average Baseline GPCD</b>				<b>275</b>
<b>5 Year Baseline GPCD</b>				
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		<b>Service Area Population</b> <i>Fm SB X7-7 Table 3</i>	<b>Gross Water Use</b> <i>Fm SB X7-7 Table 4</i>	<b>Daily Per Capita Water Use</b>
Year 1	2005	72,216	20,247	250
Year 2	2006	72,197	21,932	271
Year 3	2007	72,981	23,832	292
Year 4	2008	72,654	22,289	274
Year 5	2009	72,715	22,073	271
<b>5 Year Average Baseline GPCD</b>				<b>272</b>
<b>2015 Compliance Year GPCD</b>				
<b>2015</b>		75,787	18,208	<b>214</b>
NOTES:				

<b>SB X7-7 Table 6: Gallons per Capita per Day</b> <i>Summary From Table SB X7-7 Table 5</i>	
10-15 Year Baseline GPCD	275
5 Year Baseline GPCD	272
2015 Compliance Year GPCD	214
NOTES:	

<b>SB X7-7 Table 7: 2020 Target Method</b> <i>Select Only One</i>		
Target Method	Supporting Documentation	
<input checked="" type="checkbox"/> Method 1	SB X7-7 Table 7A	
<input type="checkbox"/> Method 2	SB X7-7 Tables 7B, 7C, and 7D <i>Contact DWR for these tables</i>	
<input type="checkbox"/> Method 3	SB X7-7 Table 7-E	
<input type="checkbox"/> Method 4	Method 4 Calculator	
NOTES:		

<b>SB X7-7 Table 7-A: Target Method 1</b> 20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
275	<b>220</b>
NOTES:	

<b>SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target</b>			
5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target <sup>1</sup>	Calculated 2020 Target <sup>2</sup>	Confirmed 2020 Target
272	258	220	<b>220</b>
<sup>1</sup> Maximum 2020 Target is 95% of the 5 Year Baseline GPCD <sup>2</sup> 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			
NOTES:			

SB X7-7 Table 8: 2015 Interim Target GPCD		
Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	<b>2015 Interim Target GPCD</b>
220	275	<b>247</b>
NOTES:		

SB X7-7 Table 9: 2015 Compliance								
Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments ( <i>in GPCD</i> )					2015 GPCD <i>(Adjusted if applicable)</i>	Did Supplier Achieve Targeted Reduction for 2015?
		Enter "0" if Adjustment Not Used			TOTAL Adj.	Adjusted 2015 GPCD		
		Extraordinary Events	Weather Normalization	Economic Adjustment				
214	247	<i>From Methodology 8 (Optional)</i>	<i>From Methodology 8 (Optional)</i>	<i>From Methodology 8 (Optional)</i>	-	214	214	<b>YES</b>
NOTES:								

## **Appendix E**

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**Chino Basin Judgment**

**Cucamonga Basin Decree**

**Six Basins Judgment**

## **Chino Basin Judgment**

For a copy of the Chino Basin Judgment, please click on the link to Chino Basin Watermaster's website. Scroll to the Judgment or the 2012 Restated Judgment link.

[http://www.cbwm.org/rep\\_legal.htm](http://www.cbwm.org/rep_legal.htm)

## **Six Basins Judgment**

For a copy of the Six Basins Judgment, please click on the link to Six Basins Watermaster's website. The link is highlighted in the text.

<http://www.6bwm.com/info.php?pnum=2>

Recorded April 29, 1958  
Book 4495, page 381,  
San Bernardino County  
Official Records

1 WALKER, WRIGHT, TYLER & WARD  
2 210 West 7th Street, Suite 631  
3 Los Angeles 14, California  
4 TRinity 8936

5 Attorneys for Plaintiff  
6  
7

8 IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
9 IN AND FOR THE COUNTY OF SAN BERNARDINO  
10

11  
12 SAN ANTONIO WATER COMPANY, a corporation,  
13 Plaintiff,

14 -vs-

15 FOOTHILL IRRIGATION COMPANY, a corporation;  
16 SUNSET WATER COMPANY, a corporation; IOAMOSA  
17 WATER COMPANY, a corporation; and OLD SETTLERS  
18 WATER COMPANY, a corporation; ALTA LOMA MUTUAL  
19 WATER COMPANY, a corporation; ARMSTRONG  
20 NURSERIES, a corporation; BANYAN HEIGHTS WATER  
21 COMPANY, a corporation; CARNELIAN WATER  
22 COMPANY, a corporation; CITRUS WATER COMPANY,  
23 a corporation; CUCAMONGA DEVELOPMENT COMPANY,  
24 a corporation; CUCAMONGA WATER COMPANY, a  
25 corporation; HEDGES WELL COMPANY, a corpor-  
26 ation; HELLMAN WATER COMPANY, a corporation;  
27 HERMOSA WATER COMPANY, a corporation;  
28 JOYA MUTUAL WATER COMPANY, a corporation;  
29 REX MUTUAL WATER COMPANY, a corporation;  
30 SAPPHIRE MUTUAL WATER COMPANY, a corporation;  
31 CHARLES SNYDER; UPLAND WATER COMPANY, a  
32 corporation; HENRY G. BODKIN and BANK OF  
AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION,  
as Executors of the last will of Giovanni Vai,  
deceased; WESTERN FRUIT GROWERS, a corporation;  
HUGH P. CRAWFORD; G. N. HAMILTON RANCH, a  
partnership composed of Arthur Bridge, Helen  
Bridge, and Grace W. Burt; JOHN DOE ONE to  
THIRTY inclusive, MARY ROE ONE to THIRTY  
inclusive, JOHN DOE COMPANY ONE to TWENTY  
inclusive,

Defendants.

No. 92645

DECREE

FILED  
AT  
SAN BERNARDINO, CALIFORNIA

FILED  
SAN FRANCISCO, CALIFORNIA  
JUN 10 1914

1           WHEREAS, there has been filed in the above entitled  
2 action, a Stipulation for Judgment duly executed by and on the  
3 part of each and all of the following named parties to said action  
4 (who are collectively hereinafter referred to as the "stipulating  
5 parties"), to wit:

- 6           San Antonio Water Company, a corporation;  
7           Foothill Irrigation Company, a corporation;  
8           Ioamosa Water Company, a corporation;  
9           Old Settlers Water Company, a corporation;  
10          Sunset Water Company, a corporation;  
11          Cucamonga Water Company, a corporation;  
12          Alta Loma Mutual Water Company, a corporation;  
13          Armstrong Nurseries, a corporation;  
14          Banyan Heights Water Company, a corporation;  
15          Carnelian Water Company, a corporation;  
16          Citrus Water Company, a corporation;  
17          Hedges Well Company, a corporation;  
18          Hellman Water Company, a corporation;  
19          Hermosa Water Company, a corporation;  
20          Joya Mutual Water Company, a corporation;  
21          Upland Water Company, a corporation;  
22          Western Fruit Growers, a corporation;  
23          Cucamonga Development Company, a corporation;  
24          Sapphire Mutual Water Company, a corporation;  
25          Charles Snyder;  
26          Hugh P. Crawford;  
27          Bank of America National Trust and Savings Association,  
28          a national banking association, and Henry G. Bodkin,  
29          as executors of the last Will of Giovanni Vai, deceased;  
30          G. N. Hamilton Ranch, a partnership composed of Arthur  
31                 Bridge, Helen Bridge, Grace W. Burt;  
32

1 and Rex Mutual Water Company.

2 and,

3 WHEREAS, the Court has heard and considered evidence on the  
4 part of various of the stipulating parties,

5 NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED  
6 by this Court that:

7 FIRST: As used herein, the terms listed below shall have  
8 the respective meanings next following them, viz:

9 (a) "Cucamonga Basin" or "Basin" shall mean that certain  
10 territory in the County of San Bernardino, State of California,  
11 which is more particularly described upon Exhibit 1, and shall  
12 also include all percolating water and underground water and water  
13 sources underlying said territory;

14 (b) "Imported water" shall mean water derived from a  
15 stream flow in an area outside of any water shed draining into the  
16 Cucamonga Basin. Specifically, water derived from San Antonio  
17 Canyon and/or Creek is "imported water".

18 (c) "Irrigation season" shall mean that portion of each  
19 year when irrigating is required by the users of the water sold by  
20 the Plaintiffs and Defendants hereto. While this period varies  
21 considerably from year to year, the irrigating season generally  
22 commences during any month in which the rainfall does not exceed  
23 two inches, and the season generally terminates after the first  
24 rainfall of two inches or more. The season usually approximates  
25 the period from May 1st to November 1st.

26 "Spreading season" is the balance of each year remaining  
27 after deducting the irrigation season for such year, and is  
28 usually approximately the period from November 1st of one year to  
29 May 1st of the succeeding year.

30 "Spread" with respect to water shall mean to conduct the  
31 same upon and sink the same into the gravels of Cucamonga Basin  
32 during a spreading season.

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1 (d) "Aggregate stipulated water" means the total number  
2 of acre feet of water set opposite the names of all stipulating  
3 parties in Exhibit 2.

4 (e) "Pro-rata" means, in each case, in the same propor-  
5 tion as the acre feet listed opposite the name or names of the  
6 party or respective parties in question bear to the aggregate  
7 stipulated water; and the verb "pro-rate" means to divide and  
8 share pro-rata among the stipulating parties.

9 (f) "Allocated water" of any stipulating party or parties  
10 in each case means the number of acre feet of water set out on  
11 Exhibit 2 opposite the name or names of such party or parties.

12 (g) "Ten preceding years" means the period of ten con-  
13 secutive calendar years which immediately precedes or has preceded  
14 the year or event mentioned.

15 (h) "Five-sixths of the water users" shall mean stipu-  
16 lating parties having in the aggregate allocated water which is  
17 not less than five-sixths of the total allocated water of all  
18 stipulating parties.

19 (i) An "inch" of water or a "miner's inch" of water shall  
20 mean a flow of water equal to one-fiftieth (1/50th) of a cubic  
21 foot of water per second of time.

22 (j) Any party hereto the corporate name of which ends  
23 with "Water Company" or "Mutual Water Company" will be hereinafter  
24 referred to without such words. Thus "San Antonio" means herein  
25 "San Antonio Water Company" and similarly with the other parties  
26 using said words "Water Company" or "Mutual Water Company".

27 (k) "Canyon pipeline" shall mean the pipeline (varying in  
28 size between approximately 32 inches in inside diameter and about  
29 18 inches) which extends Southerly from a point on the channel of  
30 Cucamonga Creek at an elevation of approximately 2350 feet above  
31 sea level (herein called "Northerly intake") to the "round weir"  
32 mentioned below.

1 (l) "Round weir" shall mean that certain weir of Ioamosa  
2 marked on the map Exhibit 3 as "Round Weir" and located near the top  
3 of the bluff on the East side of Cucamonga Creek and just Northerly  
4 from the Westerly prolongation of Almond Street, said weir being  
5 the point from which (a) two ten-inch water lines marked on the map  
6 Exhibit 3 as "Ioamosa 10 inch" lead Easterly to Ioamosa's  
7 Carnelian Street Reservoir (at about elevation 2030 feet above sea  
8 level on the East side of Carnelian Street between Hillside Road and  
9 Almond Street); (b) a six-inch water line marked on the map Exhibit 3  
10 as "Hamilton 6 inch" leads Southeasterly to the Hamilton Ranch (which  
11 lies South of Hillside Road, North of Banyan Street, East of Sapphire  
12 Street and West of Carnelian Street), and, (c) an eight-inch water  
13 line marked on the map Exhibit 3 as "Banyan 8 inch" runs Southerly  
14 down Topaz Street to connect with the water system of Banyan Heights.

15 (m) "Reservoir Weir" means the weir of Ioamosa located at  
16 the Carnelian Street Reservoir.

17 (n) "Ioamosa Southerly Intake" shall mean a line extending  
18 West across the channel of Cucamonga Creek from the existing "Canyon  
19 Weir" of Ioamosa marked on the map Exhibit 3 as "Canyon Weir", which  
20 weir is located in Cucamonga Canyon, is part of the Canyon pipeline,  
21 and is situated about midway (or somewhat Northerly thereof) between  
22 the round weir and the Northerly intake mentioned above.

23 (o) "Schulhof pipe-line" means that certain three-inch water  
24 pipe-line marked on the map Exhibit 3 as "Schulhof 3 inch" which  
25 connects with the Canyon pipe-line Northerly of the round weir, and  
26 which is mentioned in paragraph Second(h) of that certain decree  
27 dated April 12, 1937, in action No. 29,799 (Schulhof v. Cucamonga  
28 Development Company) in the above entitled Superior Court.

29 (p) The water to which Ioamosa is entitled as provided in  
30 paragraph "Third" hereof is herein called "Ioamosa gravity water",  
31 or "gravity water".

32 (q) "An overflow year" shall mean any calendar year for which

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1 the water level determined as hereinafter provided in the index  
2 well is at an elevation of 1345 feet or higher above sea level.  
3 For the purposes of determination of elevation above sea  
4 level the United States Geological Survey bench mark on Baseline  
5 (also known as 16th Street) as it exists on the date this decree is  
6 entered, on or near the north boundary of Section 4, Township 1  
7 South, Range 7 west, and approximately four-fifths of a mile west of  
8 Vineyard Avenue, shall be deemed to be at an elevation above sea  
9 level of 1454 feet. The elevation of the water level in such index  
10 well shall be determined by measuring the elevation of such water  
11 in such well on October 1st of each year (Provided that if any such  
12 day falls on a Sunday or a holiday, measurements shall be made on  
13 the next business day). The index well shall be the well known  
14 as Shaft No. 9-A of the San Antonio Water Company located approx-  
15 imately 154 feet Southerly of the Northwest corner of Lot 14 of  
16 Red Hill subdivision and shown on the map Exhibit 5. Wells No. 11  
17 of Cucamonga Water Company and 20 and 22 of the San Antonio Water  
18 Company shall not be pumped within three days before such date of  
19 measurements, and the tunnel bulkhead adjacent to Red Hills Country  
20 Club will be kept closed for a like period before such date. If  
21 for any reason Shaft 9-A shall not be available for measurement,  
22 then the index well shall be Wells No. 11 of Cucamonga Water Company  
23 or 20 or 22 of the San Antonio Water Company, in the order herein  
24 listed. If for any reason none of said wells shall be available  
25 for such measurement, the identity and location of the index well  
26 may be determined by a written stipulation executed by five-sixths  
27 of the water users and filed in said action, or in default of  
28 said stipulation by order of the said court.

29 Annexed to this Decree and hereby incorporated herein are the  
30 following Exhibits:

31 Exhibit 1: A description of the territory under which  
32 lies the "Cucamonga Basin";

1        Exhibit 2: A list of the "allocated water" of each party  
2        (Other than the stream flow mentioned in paragraph "Third");

3        Exhibit 3: A map of "Cucamonga Pipe Lines";

4        Exhibit 4: A map of "Cucamonga Spreading Works";

5        Exhibit 5: A map of "Well and Shaft Locations";

6 and said exhibits are herein respectively referred to as "Exhibit 1",  
7 "Exhibit 2", "Exhibit 3", "Exhibit 4" and "Exhibit 5".

8        SECOND: This paragraph deals with the right and quantity of  
9 water San Antonio may annually hereafter extract from the Cucamonga  
10 Basin as reduced by its failure to previously annually spread therein  
11 the minimum amount of water hereinafter set forth, or as increased by  
12 its previously annually spreading more imported water therein than  
13 said minimum, excepting, however, in both such situations the spread-  
14 ing of imported water during years in which such spread causes  
15 the Basin to overflow resulting in such year constituting an overflow  
16 year, as defined in Paragraph First, subdivision (q) thereof.

17        For the purpose of the computation in this Paragraph Second,  
18 it shall be assumed that San Antonio has spread in each of the ten  
19 years previous to 1957, 2,000 acre feet of imported water.

20        With respect to each calendar year after entry of this decree  
21 each preceding ten year period shall be divided into "included" and  
22 "Excluded" years. "Excluded years" are those calendar years which  
23 are defined as overflow years in Paragraph First, subdivision (q)  
24 thereof. All other calendar years are "included years".

25        If in the ten preceding years San Antonio shall have spread  
26 less than 2,000 acre feet of imported water in any of the included  
27 years, as modified by the assumption above set forth, the difference  
28 between (a) The amount of imported water which shall have been so  
29 spread in such included years, and (b) The quantity of 2,000 acre  
30 feet multiplied by the number of included years, shall be known  
31 as the "ten year deficit".

32        Any right of San Antonio to extract water from the Cucamonga

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1 Basin in any calendar year after the entry of this decree shall be  
2 reduced by the number of acre feet of water equal to the ten year  
3 deficit divided by the number of included years, if any such deficit  
4 shall have occurred, so that such right to extract water for such  
5 year shall not exceed 6,500 acre feet less the ten year deficit  
6 divided by the number of included years.

7 Correspondingly, with respect to each calendar year after  
8 the entry of this decree, if in the ten preceding years San Antonio  
9 shall have spread more than 2,000 acre feet of imported water in any  
10 of the included years, as modified by the assumption above set forth,  
11 the difference between (a) The amount of imported water which shall  
12 have been so spread in such included years, and (b) The quantity of  
13 2,000 acre feet multiplied by the number of included years, shall be  
14 known as the "ten year surplus".

15 The right of San Antonio to extract water from the Cucamonga  
16 Basin in any calendar year after the entry of this decree, shall be  
17 increased by a number of acre feet of water equal to 95 percent of  
18 the ten year surplus divided by the number of included years, if any  
19 such surplus shall have occurred, so that there shall be added for  
20 such year to San Antonio's right to extract 6,500 acre feet of water  
21 a number of acre feet of water equal to 95 percent of the ten year  
22 surplus divided by the number of included years. Provided, however,  
23 that in no case shall such increased extraction exceed 2,000 acre  
24 feet of water for any one calendar year.

25 So long as the water level in the index well referred to in  
26 paragraph First, subdivision (q) herein is at an elevation below  
27 1345 feet above sea level, and in the event San Antonio has available  
28 in any one calendar year after the year 1956 more than 2,000 acre feet  
29 of imported water, and desires to sell the same, it shall, before selling  
30 such imported water to others not parties to this Decree, annually  
31 offer to sell such imported water to the other stipulating parties  
32 hereto for spreading in the Cucamonga Basin and at a price to be fixed

1 between the parties by negotiation, but in any event to be not  
2 greater than the price San Antonio can obtain from others not  
3 parties of this Decree.

4 In the event San Antonio and the other stipulating parties  
5 hereto do not agree by October 1st to the terms for the purchase  
6 of said imported water to be sold and spread during the next  
7 succeeding spreading season, then San Antonio is thereafter free  
8 to sell such imported water to other persons not parties hereto,  
9 or at its option, it may spread such imported water in the Cucamonga  
10 Basin and by so spreading will receive the credit for water  
11 spread as provided in this paragraph Second. If the stipulating  
12 parties and San Antonio agree to the purchase from San Antonio  
13 of any imported water, and such stipulating parties, other than  
14 San Antonio, purchase said water and the same is spread in the  
15 Cucamonga Basin, then during such year no credit shall be  
16 given to San Antonio toward estimating its ten year surplus  
17 or deficit for the amount of water so purchased and spread.

18 THIRD: Ioamosa and Hamilton Ranch, a partnership composed  
19 of Arthur Bridge, Helen Bridge and Grace W. Burt, are the owners  
20 of the paramount right to take and divert throughout each year  
21 at or Northerly from the Ioamosa Southerly intake all surface  
22 and subsurface flow of Cucamonga Creek, not exceeding however  
23 two hundred fifty (250) miner's inches of water, (measured at  
24 the round weir and the intake to the Schulhof pipeline), including  
25 any water which shall be supplied to the Schulhof pipeline under  
26 the terms of said decree in action No. 29,799 or otherwise. The  
27 right to said flow of Cucamonga Creek up to 250 miner's inches  
28 per year is subject to an obligation of Hamilton Ranch and Ioamosa  
29 to deliver water into the Schulhof pipeline, and the balance of  
30 said water is owned by Hamilton Ranch and Ioamosa in the following  
31 proportions:

32 (a) Hamilton Ranch 128/1200ths thereof;

1 (b) Ioamosa 1072/1200ths thereof, subject to the right  
2 of Sapphire to the extent of one (1) inch from the weir box on  
3 Ioamosa's pipeline located approximately 1200 feet East of the  
4 "round weir".

5 The rights of Ioamosa to the Ioamosa gravity water are  
6 subject to the provisions hereof. Ioamosa may transport such  
7 gravity water to any location or locations whether within or without  
8 the basin, and use or deliver such water at any such location or  
9 location, provided, however, if any of the Ioamosa gravity water is  
10 used or conducted outside the Basin in any year, then the quantity of  
11 water which Ioamosa shall be entitled to develop or extract from the  
12 Basin by Paragraph Fourth and Exhibit 2 herein during the next  
13 succeeding year shall be reduced by an amount equal to the quantity  
14 of Ioamosa gravity water so used or conducted outside the Basin  
15 during such year.

16 The stipulating parties hereto shall within sixty (60) days  
17 after the date of this judgment, at their proportionate expense, con-  
18 struct in a manner which shall have been approved by San Antonio  
19 Water Company or by the above entitled Court a dividing weir located  
20 where Ioamosa now maintains the "round weir". Such dividing weir  
21 shall be so constructed that it will automatically limit to 249  
22 inches the amount of water that will flow into the above mentioned  
23 four outgoing lines what are now connected with the round weir and  
24 are referred to in paragraph First (1) herein.

25 Within sixty (60) days after the date of this judgment  
26 the stipulating parties hereto shall also construct in a manner  
27 which shall have been approved by San Antonio Water Company or  
28 by the above entitled Court a dividing weir at the said  
29 Carnelian Street reservoir. The dividing weir at this point shall  
30 be so constructed as to permit Ioamosa to divert fifty inches of  
31 such Ioamosa gravity water to domestic use.  
32

1 During each spreading season, the remaining amount of Ioamosa  
2 gravity water over and above fifty (50) inches, shall be either:

3 (a) Used for irrigation purposes over Cucamonga Basin; or,

4 (b) Spread over Cucamonga Basin in the spreading grounds  
5 of Ioamosa or Banyan Heights Water Company; or

6 (c) Returned by Ioamosa to the channel of Cucamonga Creek.

7 During each spreading season all of the flow of Cucamonga  
8 Creek in excess of such 250 inches after passing through the debris  
9 basins numbered C1 to C12 inclusive on Exhibit 4 shall be spread in  
10 spreading grounds which now exist, or are now under construction, or  
11 which are proposed, as shown on Exhibit 4, including the channel or  
12 wash of Cucamonga Creek, and which overlie the Cucamonga Basin and  
13 are North of Baseline Road. Whenever such spreading grounds are all  
14 overflowing, or would overflow, the waters which do or would so over-  
15 flow may be spread in the "15th St. Spreading Grounds" as shown on  
16 said map, and when the "15th St. Spreading Grounds" also do or would  
17 overflow, the waters which do or would so overflow the "15th St.  
18 Spreading Grounds" may be spread in what is known as the "8th Street  
19 Spreading Grounds", all as shown on Exhibit 4, even though all or part  
20 of such spreading grounds do not overlie the Cucamonga Basin.

21 Such spreading shall be done at one or more locations in said  
22 spreading grounds which shall be approved by San Antonio.

23 Such flow of Cucamonga Creek may be spread at other locations  
24 than above provided, and outside the area above described upon the  
25 written consent of 5/6th of the water users, as defined in paragraph  
26 First subdivision (k) of this Decree.

27 If any costs are incurred in such spreading by any party  
28 hereto, for which such party would not otherwise be reimbursed, such  
29 costs shall be pro-rated between the parties hereto.

30 FOURTH: The rights of all stipulating parties to take water  
31 from Cucamonga Basin, subject to the adjustments set forth in this  
32 decree and to the provisions of paragraphs Second and Third above,

S. A. SILVER  
ATTORNEY AT LAW  
SAN BERNARDINO, CALIFORNIA

1 are hereby fixed at the quantities set forth in Exhibit 2. Such  
2 rights are correlative, and except as to quantity or as herein  
3 otherwise stated are equal. No stipulating party shall have any  
4 right to export water from the Cucamonga Basin or use water extracted  
5 from the Cucamonga Basin at any place other than over the Cucamonga  
6 Basin except as provided in paragraph Third and as follows:

7 (a) The following stipulating parties, or any of them,  
8 may use water which they are entitled to extract from Cucamonga  
9 Basin in any location whatsoever, namely, San Antonio, Cucamonga,  
10 Upland, Old Settlers, and Sunset.

11 (b) Hermosa, Foothill Irrigation Company and Alta Loma  
12 are entitled to export water from Cucamonga Basin only to the  
13 extent hereinafter set forth, and none of said parties shall ever  
14 export from the Basin more water than said "Export quantity" herein  
15 listed for it, to wit:

16	<u>Party</u>	<u>Export Quantity</u>
17	HERMOSA	343 Acre Feet
18	FOOTHILL IRRIGATION COMPANY	483 Acre Feet
19	ALTA LOMA	51 Acre Feet

20 and if in any year water used outside the basin which has been ex-  
21 tracted or developed from the basin by any of said parties exceeds  
22 the "Export Quantity" above listed for such party, the quantity of  
23 water which such party shall be entitled to develop or extract from  
24 the basin in the ensuing year shall be reduced by an amount equal  
25 to such excess.

26 FIFTH: Within sixty (60) days after the date of this  
27 judgment, San Antonio shall, in the event it has not already done  
28 so, install, at the following locations, suitable recording and  
29 measuring devices, by means of which all spread water passing  
30 through such devices may be accurately measured and the quantity  
31 of such water recorded. Said locations are as follows:

32 (1) On 23rd Street at the Northeast corner of Ontario

1 Colony Lot No. 170

2 (2) On 20th Street at the Northwest corner of Ontario  
3 Colony Lot No. 282; and

4 (3) On the West line of Ontario Colony Lot No. 301,  
5 400 feet North of 19th Street.

6 Such measuring and recording devices shall be of such design and  
7 construction as may be agreed upon by and between San Antonio and  
8 Cucamonga, or, if they fail to agree, as may be designated by the  
9 Chief Engineer of the San Bernardino County Flood Control District,  
10 or by the above entitled Court.

11 All imported water which is to be spread upon Cucamonga Basin,  
12 whether spread by San Antonio to earn its entitlement under paragraph  
13 Second hereof, or is spread after the purchase thereof by the parties  
14 hereto other than San Antonio, shall be conducted through said record-  
15 ing and measuring devices by San Antonio, unless otherwise agreed in  
16 writing by the stipulating parties, including San Antonio, having  
17 allocated water equal to at least five-sixths (5/6ths) of the aggre-  
18 gate stipulated water, and no water not so conducted through such  
19 devices and measured shall be counted as water spread under the terms  
20 of such paragraph Second, unless so agreed in writing by such parties.

21 Said devices shall be designed and operated so that they  
22 continuously record the amount of water passing therethrough between  
23 the start and finish of each spreading season. In case of failure  
24 of measuring devices, average of the preceding and succeeding  
25 measurements shall be used. Such records shall be open to the inspect  
26 ion of all other stipulating parties on reasonable notice.

27 Each stipulating party shall have the right to inspect such  
28 recording and measuring devices at any time, and, in the event that  
29 the same shall ever be locked, each of the stipulating parties shall  
30 be furnished by San Antonio with a key thereto so as to permit in-  
31 spection thereof. Further, San Antonio shall grant to the other  
32 stipulating parties hereto, insofar as it can do so without being

1 required to obtain the same from others, a non-exclusive right of  
2 ingress and egress from the nearest public street to said recording  
3 measuring devices. The stipulating parties hereto shall pro-rate the  
4 expense of the original installation of said recording measuring  
5 devices, and San Antonio shall thereafter operate and maintain and  
6 bear the expense of operating and maintaining such devices.

7 SIXTH: As between the stipulating parties only, no extraction  
8 of water from Cucamonga Basin by any party in excess of the amount  
9 herein provided to be taken by such party, shall be deemed adverse to  
10 any other stipulating party, and each stipulating party hereby waives  
11 as against each other stipulating party the right to plead any statute  
12 of limitations or laches with respect to any extraction of water by  
13 such party in excess of such amount.

14 SEVENTH: Except as provided in paragraph Second, if any stip-  
15 ulating party in any year shall fail to take or receive from the basin  
16 or transport beyond the confines of the basin, the full quantity of  
17 water which such party is entitled hereunder to take or receive or  
18 transport beyond said confines, as the case may be, such failure shall  
19 not entitle such party to take or receive or so transport from the  
20 basin in any succeeding year any greater quantity of water than if in  
21 each prior year such party had taken, received and so transported  
22 from the basin all water which such party was entitled hereunder to so  
23 take, receive and transport, and, subject to the provisions of Para-  
24 graph Fifteen, such failure shall not affect the rights of other  
25 parties to the decree to take the stipulated amounts of water they are  
26 entitled to receive by Exhibit 2 herein.

27 Likewise, except as provided in said paragraph Second, as  
28 between the stipulating parties, no right adjudged hereunder of any  
29 party to thereafter take water from the Basin or to thereafter trans-  
30 port such water beyond the confines of the Basin shall be lost,  
31 impaired or diminished by any failure to take or so transport from the  
32 Basin all or any of the water to which such party is entitled hereunder:  
33 unless and only to the extent that for a period of at least fifteen

1 consecutive years such right shall not be exercised.

2 EIGHTH: Each stipulating party shall always maintain records  
3 of all extractions of water from the Basin by such party such that it  
4 can be determined therefrom for each year what quantity of water was  
5 taken from each well, or combination of wells, or other water source  
6 within the Basin from which such party received water.

7 Upon written demand of any other stipulating party, the party  
8 keeping such records shall, within 30 days after receipt of such  
9 demand, supply to the party making such demand or to the person  
10 designated by such party in such demand a written statement of the  
11 amount of water (in acre feet) so taken from each such well or combin-  
12 ation of wells, or other source, for each year after 1957, with  
13 respect to which no such statement has previously been supplied.

14 Within six months hereafter as to existing wells, or upon  
15 commencement of operation as to wells first hereafter operated, each  
16 such well or combination of wells shall be so equipped with measuring  
17 devices at the expense of stipulating party who operates the same, as  
18 to show the quantity of water used or extracted.

19 Likewise, if any stipulating party hereafter transports water  
20 beyond the confines of the Basin, such transporting party shall there-  
21 after maintain such measuring box, meter, weir, or other measuring  
22 device as will show readily and accurately the quantity of water at  
23 the time being transported beyond the confines of the Basin. Measure-  
24 ments of the quantity of water being taken at each of said points  
25 shall be made by such transporting party at least daily by weir or  
26 weekly by meter throughout the entire period water is being taken at  
27 such point. A record of such measurements and hours of operation  
28 shall always be made and maintained by such party. In case of failure  
29 of measuring device, average of the preceding and succeeding measure-  
30 ments shall be used.

31 Each stipulating party and any agent of any such party shall  
32 at all reasonable hours be entitled to inspect all such meters, boxes,

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1 weirs and other measuring devices, and to inspect, check, and copy  
2 any record of extractions and measurements and of all data and com-  
3 putations pertaining to the same in the possession or under the  
4 control of any other stipulating party or parties.

5 NINTH: Every provision of this Judgment in favor of or  
6 applying to any party hereto shall also apply to and inure to the  
7 benefit of, and also bind each and all of the heirs, legal represent-  
8 atives, successors and assigns of such party.

9 TENTH: The maximum quantity of water which any stipulating  
10 party shall be entitled to take from the Basin or transport beyond  
11 its confines shall not be increased or affected by the future  
12 acquisition by such party of additional lands, unless there shall be  
13 appurtenant to such lands rights to take water, which rights are  
14 in this action adjudged to exist.

15 Nothing in this judgment contained shall prevent any stipul-  
16 ating party from selling or otherwise disposing, or from purchasing  
17 or otherwise acquiring, any rights to water or to transport the same  
18 which may be adjudged to belong to any party to this action; but any  
19 such rights so acquired or so disposed shall remain subject to any  
20 limitations or restrictions herein expressed. Any transfer of the  
21 rights of any party herein shall be in writing, and notice thereof  
22 shall be given to San Antonio Water Company and Cucamonga Basin  
23 Protective Association, a corporation, whose address is Cucamonga,  
24 California, before the transferees may exercise such transferred rights.

25 ELEVENTH: The stipulating parties shall pro-rate the expense  
26 incurred after the date of this Judgment in prosecuting this action  
27 to Judgment against any other parties to this action.

28 The stipulating parties will unite in opposing any new,  
29 wrongful or unlawful taking of water from the Basin hereafter made  
30 by any person or corporation other than a stipulating party or  
31 parties, and will prorate the expense of making such opposition,  
32 including any litigation or engineering expense, provided that;

1 (a) The term "new taking" shall not include any water devel-  
2 opment in the Basin hereafter made for the sole purpose of maintain-  
3 ing but not increasing any quantity of water now being taken from  
4 the Basin by the person who may hereafter make such development.

5 (b) If any stipulating party does not join in prosecuting  
6 any future suit to prevent, enjoin or limit any such new, wrongful  
7 or unlawful taking, such stipulating party not so joining shall bear  
8 pro-rata the expense of such suit (including attorney's fees and  
9 engineering expense) only if final judgment is rendered in such  
10 suit preventing, enjoining or limiting such taking.

11 TWELFTH: Each stipulating party, and the agents and employees  
12 of each such party, is and are hereby perpetually enjoined and re-  
13 strained from doing any act or thing in violation of any provision  
14 of this judgment, other than paragraph Eleventh hereof.

15 THIRTEENTH: No stipulating party shall be entitled to  
16 recover court costs from any other stipulating party.

17 FOURTEENTH: The above entitled action shall continue and may  
18 be prosecuted and tried against all defendants therein, other than  
19 the stipulating parties; and the stipulating parties shall share  
20 the expense of such prosecution pro-rata. The Court will retain  
21 jurisdiction to enter modifications of this decree pursuant to  
22 stipulations provided for hereunder.

23 FIFTEENTH: In the event that through inadequacy of the  
24 supply of water in the Cucamonga Basin, or by reason of adjudication  
25 in any subsequent action, the stipulating parties in the aggregate  
26 shall be unable to pump and extract from the Cucamonga Basin a  
27 quantity of water so great as the aggregate stipulated water as is  
28 set forth in Exhibit 2, the stipulating parties shall pro-rate the  
29 aggregate quantity of water available in the Basin as long as such  
30 inability shall continue.

31 In the event between October 1st of any year and June 15th  
32 of the succeeding calendar year, five-sixths of the water users

SL  
ALVER  
ATTORNEY AT LAW  
SAN BRANDEGIO, CALIFORNIA

1 shall agree in writing by a stipulation filed in said action that  
2 the supply of water in the Basin is inadequate to safely permit the  
3 stipulating parties to pump in such ensuing year the aggregate  
4 stipulated water and that the amount of water to be pumped by each  
5 stipulating party shall for such succeeding calendar year be limited  
6 to a specified percentage (uniform for all) of the allocated water,  
7 then for such succeeding calendar year, each stipulating party is  
8 hereby enjoined and restrained from pumping or extracting from the  
9 Basin more than such percentage of allocated water of such party  
10 (subject to the provisions of paragraphs Second and Third hereof).

11 SIXTEENTH: The listing upon Exhibit 2 of any number of  
12 acre feet for any party to this action other than a stipulating  
13 party, shall not be deemed an admission by any stipulating party  
14 that a non-stipulating party is entitled to any water whatsoever  
15 from Cucamonga Basin, nor as to the quantity which such non-  
16 stipulating party may take from said Basin, if any, but each such  
17 figure for any non-stipulating party is listed as a matter of con-  
18 venience and as a possible basis of compromise only.

19 SEVENTEENTH: This judgment supersedes and controls all  
20 previous agreements and decrees between the stipulating parties, or  
21 any of them but only insofar as they are inconsistent herewith.

22 Done in open Court this 25 day of April, 1958.

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24  
25 CARL B. HILLIARD

26 \_\_\_\_\_  
27 Judge  
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EXHIBIT 1

TERRITORY UNDER WHICH LIES THE "CUCAMONGA BASIN"

That certain territory in the County of San Bernardino,  
State of California, which is situated to the South of the Sierra  
Madre range of mountains and is bounded and described as follows,  
to wit:

Beginning at the base of the hereinbefore men-  
tioned Sierra Madre Mountains at a point situate  
9000 feet due North of the Southwest corner of  
Lot 241, said lot being delineated on Map of  
Ontario Colony Lands, recorded in the Office of  
the County Recorder of said County in Book 11  
of Maps, at page 6 thereof; thence running South  
to said Southwest corner of said Lot 241; thence  
running in a general Southeasterly direction to  
the Southeast corner of Lot 419, said lot being  
also delineated on said Map of said Ontario Colony  
Lands; thence continuing in a general Southeasterly  
direction to a point situate thirteen hundred feet  
North of the South line and thirteen hundred feet  
East of the West line of Section 4, Township 1  
South, Range 7 West, S. B. B. & M., thence running  
in a general Easterly direction to a point situate  
on the East line of said Section 4, eighteen hun-  
dred feet North of the Southeast corner of said  
Section 4; thence running in a general Northeasterly  
direction to the Southeast corner of the Southwest  
quarter of the Northeast quarter of Section 3,  
Township 1 South, Range 7 West, S. B. B. & M., thence  
running Northeasterly to a point situate on the North  
line of Section 2, Township 1 South, Range 7 West,  
S. B. B. & M., fourteen hundred feet East of the West  
line of said Section 2; thence running in a general  
Northeasterly direction to the base of said mountains,  
to a point where the division line between ranges  
six and seven, S. B. B. & M. intersects the South  
base of said mountains; thence following the meander-  
ing line of the South base of said mountains, being  
curved northerly for canyons and southerly for ridges,  
in a westerly direction to the place of beginning.

S. & HELLYER  
ATTORNEYS AT LAW  
SAN BERNARDINO, CALIFORNIA

212  
LIVEN  
BY  
AV. LAW  
SAN FRANCISCO, CALIFORNIA

1 EXHIBIT 2

2 STIPULATED WATER

3  
4 NAME ACRE FEET PER YEAR

5	San Antonio Water Company	6500	6500
6	Alta Loma Mutual Water Company	51	600
7	Armstrong Nurseries		200
8	Banyan Heights Water Company		625
9	Carnelian Water Company		600
10	Citrus Water Company		450
11	Cucamonga Water Company	6500	6500
12	Cucamonga Development Company (included under Ioamosa)		None
13	Foothill Irrigation Company	483	1600
14	Hedges Well Company		732
16	Hellman Water Company (included under Ioamosa)		None
16	Hermosa Water Company	343	600
17	Ioamosa Water Company		920
18	Joya Mutual Water Company		390
19	Old Settlers Water Company	400	400
20	Rex Mutual Water Company		600
21	Charles Snyder		114
22	Sunset Water Company	400	400
25	Upland Water Company	750	750
24	Heirs and Devises of Giovanni Vai, deceased		500
25	Hugh P. Crawford		120
26	Western Fruit Growers		120
27	Sapphire Mutual Water Company		None
28	G. N. Hamilton Ranch, a partnership		None
29	AGGREGATE STIPULATED WATER		22,721

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32 EXHIBIT 2

114  
15,351

1 WALKER, WRIGHT, TYLER & WARD  
2 210 W. 7th Street, Suite 631  
3 Los Angeles, 14, California,  
4 TRinity 8936

5 Attorneys for Plaintiff

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8 IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA  
9 IN AND FOR THE COUNTY OF SAN BERNARDINO

10  
11 SAN ANTONIO WATER COMPANY, a corporation,  
12 Plaintiff,

13 vs.

14 FOOTHILL IRRIGATION COMPANY, a corporation;  
15 SUNSET WATER COMPANY, a corporation; IOAMOS  
16 WATER COMPANY, a corporation; and OLD SETTLERS  
17 WATER COMPANY, a corporation; ALTA LOMA MUTUAL  
18 WATER COMPANY, a corporation; ARMSTRONG  
19 NURSERIES, a corporation; BANYAN HEIGHTS WATER  
20 COMPANY, a corporation; CARNELIAN WATER  
21 COMPANY, a corporation; CITRUS WATER COMPANY,  
22 a corporation; CUCAMONGA DEVELOPMENT COMPANY,  
23 a corporation; CUCAMONGA WATER COMPANY, a  
24 corporation; HEDGES WELL COMPANY, a corpora-  
25 tion; HELLMAN WATER COMPANY, a corporation;  
26 HERMOSA WATER COMPANY, a corporation;  
27 JOYA MUTUAL WATER COMPANY, a corporation;  
28 REX MUTUAL WATER COMPANY, a corporation;  
29 SAPPHIRE MUTUAL WATER COMPANY, a corporation;  
30 CHARLES SNYDER; UPLAND WATER COMPANY, a  
31 corporation; HENRY G. BODKIN and BANK OF  
32 AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION,  
as Executors of the last will of Giovanni Vai,  
deceased; WESTERN FRUIT GROWERS, a corporation;  
HUGH P. CRAWFORD; G. N. HAMILTON RANCH, a partner-  
ship composed of Arthur Bridge, Helen Bridge, and  
Grace W. Burt; JOHN DOE ONE to THIRTY, inclusive,  
MARY ROE ONE to THIRTY inclusive, JOHN DOE  
COMPANY ONE TO TWENTY inclusive,

Defendants.

No.

STIPULATION

REGARDING

TRIAL AND

JUDGMENT

30 IT IS HEREBY STIPULATED AND AGREED by and between plaintiff  
31 San Antonio Water Company and the undersigned defendants (said  
32 plaintiff and defendants being herein called "Stipulating parties")

SU  
BY  
C. L. WYER  
SAN ANTONIO, TEXAS, CALIFORNIA

1 that:

2 FIRST: Each of the undersigned defendants hereby appears in  
3 the above entitled action. The allegations of the complaint on  
4 file in said action shall be deemed denied by the undersigned  
5 defendants, and they shall be and are deemed to have alleged in  
6 said action that they own such rights to the waters of Cucamonga  
7 Creek and of Cucamonga Basin (mentioned in said judgment) as may  
8 be supported by any evidence which may be introduced at the trial  
9 of said action.

10 SECOND: At any time after the filing of this stipulation  
11 said action may be tried as between the stipulating parties. Said  
12 trial may be held without notice if the undersigned counsel for the  
13 stipulating parties are present or represented at said trial, and  
14 in such case notice of said trial is hereby waived.

15 THIRD: The stipulating parties consent that a Decree in the  
16 form which precedes and is attached to this stipulation may be  
17 rendered and entered by the Court in said action, in the event  
18 the Court finds such judgment proper under the evidence which shall  
19 have been introduced.

20 FOURTH: The stipulating parties hereby waive the signing  
21 or filing of any Findings of Fact in said action in the event a  
22 decree in said form is to be rendered.

23 Dated: <sup>April</sup> ~~November~~ 25<sup>th</sup>, 195<sup>8</sup>.

24 SAN ANTONIO WATER COMPANY  
25 BY F. B. Buffington President  
26 AND C. Adams Secretary

27  
28 WALKER, WRIGHT, TYLER AND WARD  
29 BY Thomas S. Matthews  
Attorneys for Plaintiff

30 Foothill Irrigation Company  
31 BY Herman Gibson V. President  
32 AND Frank A. Van Fleet Secretary

L. R. & HELLYER  
ATTORNEYS AT LAW  
SAN BEBARIANO, CALIFORNIA

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IOAMOSA WATER COMPANY

BY J. F. Green President  
AND Frank N. Van Fleet Secretary

OLD SETTLERS WATER COMPANY

BY J. Van Fleet President  
AND Frank N. Van Fleet Secretary

SUNSET WATER COMPANY

BY Ernest Wilson President  
AND Emma Mae Pinner Secretary

CUCAMONGA WATER COMPANY

BY Leon T. Lucas President  
AND Clifton Chappell Secretary

ALTA LOMA MUTUAL WATER COMPANY

BY C. J. Minor President  
AND Dana P. Merchant Secretary

ARMSTRONG NURSERIES, Inc

BY Clayton Armstrong President  
AND Tom P. Secretary

BANYAN HEIGHTS WATER COMPANY

BY Robert L. ... President  
AND Robert L. ... Secretary

CARNELIAN WATER COMPANY

BY John C. ... President  
AND Robert L. ... Secretary

CITRUS WATER COMPANY

BY Woodrow ... President  
AND Chas. ... Secretary

W. B. HELLYER  
ATTORNEY AT LAW  
SAN FRANCISCO, CALIFORNIA

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HEDGES WELL COMPANY,

BY Donald C. Blair President

AND Marcus D. ... Secretary

HELLMAN WATER COMPANY

BY J. F. Cross President

AND Frank N. Van Fleet Secretary

HERMOSA WATER COMPANY

BY Wm. H. ... President

AND Frank N. Van Fleet Secretary

JOYA MUTUAL WATER COMPANY

BY Charles B. ... President

AND Frank N. Van Fleet Secretary

UPLAND WATER COMPANY

BY Wm. ... President

AND J. F. ... Secretary

WESTERN FRUIT GROWERS

BY W. ... President

AND M. ... Secretary

CUCAMONGA DEVELOPMENT COMPANY

BY Robert ... President

AND Frank N. Van Fleet Secretary

SAPPHIRE MUTUAL WATER COMPANY

BY H. C. ... President

AND Frank N. Van Fleet Secretary

Charles Snyder  
(Charles Snyder)

Hugh P. Crawford  
(Hugh P. Crawford)

S. & HELLYER  
ATTORNEYS AT LAW  
SAN BERNARDINO, CALIFORNIA

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HENRY G. BODKIN and  
BANK OF AMERICA NATIONAL TRUST AND  
SAVINGS ASSOCIATION,  
As Executors of the Last Will of  
Giovanni Vai, deceased;

BY [Signature]  
ASSISTANT TRUST OFFICER  
X AND [Signature]  
(Henry G. Bodkin)

G. N. HAMILTON RANCH, a partnership,

BY [Signature]  
(Arthur Bridge)

BY [Signature]  
(Helen Bridge)

BY [Signature]  
(Grace W. Burt)  
Partners

REX MUTUAL WATER COMPANY

BY [Signature] President  
X AND [Signature] Secretary

SURR & HELLYER

BY [Signature]  
Attorneys for Ioamosa, Cucamonga,  
Banyan Heights, Joya Mutual, Rex Mutual,  
and Sapphire Water Companies, and for  
Hedges Well Company and Cucamonga  
Development Company.



## **Appendix F**

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### **Water Shortage Ordinance**



ORDINANCE NO. 1786

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF UPLAND AMENDING PART 3, WATER CONSERVATION, SECTIONS 7730 - 7743 OF THE UPLAND MUNICIPAL CODE.

THE CITY COUNCIL OF THE CITY OF UPLAND DOES HEREBY ORDAIN AS FOLLOWS:

WHEREAS, the City Council is concerned that our precious water resources are protected so that city water users can expect to receive a reliable supply of quality water on demand; and

WHEREAS, the City has a responsibility to provide water to residents through the creation and maintenance of the infrastructure necessary to pump, store and distribute water; and

WHEREAS, the City of Upland Municipal Code has not been updated since 1992 to incorporate changes in technology and best management practices.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF UPLAND, CALIFORNIA, DOES RESOLVE, DECLARE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1. The City Council hereby amends Section 7730-7743 of the Upland Municipal Code as follows:

**PART 3. WATER CONSERVATION**

**Section 7730.00. Generally**

.010 *Declaration of policy.* It is hereby declared that because of the water conditions prevailing in the city, the general welfare requires that the water resources available to the City, Region and State be put to the maximum beneficial use, that the waste or unreasonable use of water be prevented, and that the conservation of water is to be encouraged at all times.

.020 *Authorization.*

The City Manager shall request the City Council to declare that demand for water is anticipated to be in excess of supply, immediately after it appears that such a situation exists or is threatened, if the City Council is in session. If the council is not in session, the City Manager shall immediately cause a request for a special meeting of the City Council to be delivered to each council person who can be located.

The City Council shall have the power to declare the necessity to implement the applicable provisions of this part when in their opinion the demand for

water consumption exceeds the city's available supply (allowing for a safe reserve), or threatens to do so, provided there are no immediate resources available to remedy the situation. Said declaration shall be made by public announcement and shall be published in a newspaper of general circulation and shall become effective immediately upon such publication.

*.030 Application.*

The provisions of this chapter shall apply to all persons, customers within the City of Upland, or property utilizing city water wherever situated.

*.040 Presumption.*

For purposes of this chapter, it shall be presumed that a person, corporation or association in whose name the water utility of the city is or was last billed or who is receiving the economic benefit of said water supply has knowingly made, caused, used or permitted the use of water received from the city for a purpose in a manner contrary to any provision of this chapter.

**Section 7731.00. Penalties**

*.010 Compliance; guidelines.*

No customer of the City of Upland or person who uses water within the City of Upland shall knowingly use, or permit the use of water in a manner contrary to any provision of this part, or in an amount in excess of that use permitted by the provisions of this chapter or that is reasonably necessary to satisfy the water usage need.

Unless otherwise provided, any person, firm or corporation violating any provision of said Chapter 7 as adopted by reference above, other than the provisions of section 7737 through 7740 of this Code, shall be guilty of an infraction or misdemeanor as hereinafter specified at the City's discretion, and each day or portion thereof such violation is in existence shall be a new and separate offense.

Any person so convicted shall be:

*.020* Guilty of an infraction offense and punished by a fine of not less than twenty-five dollars (\$25.00) but not exceeding fifty dollars (\$50.00) for a first violation during any calendar year or declared conservation stage, whichever time period is shorter in duration;

*.030* Guilty of an infraction offense and punished by a fine not less than fifty dollars (\$50.00) and not exceeding one hundred dollars (\$100.00) for a second violation during any calendar year or declared conservation stage, whichever time period is shorter in duration;

*.040* On conviction of a third violation, guilty of a misdemeanor offense and shall be punished by a fine not less than five hundred dollars (\$500.00) nor more

than one thousand dollars (\$1,000.00) during any calendar year or declared conservation stage, whichever time period is shorter in duration.

- .050 Notwithstanding the above, first or second offense may be charged and prosecuted as a misdemeanor at the City's sole discretion. In addition to the above penalties, such convicted person, firm, corporation or other entity may, in the discretion of the court, be ordered to reimburse the city for all necessary costs incurred through investigation, discovery, analysis, inspection, abatement and other actual costs incurred by the city or its agents pertaining to the violation.

The court shall fix the amount of any such reimbursements upon submission of proof of such costs by the city. Payment of any penalty herein provided shall not relieve a person, firm or corporation, or other entity from the responsibility of correcting the condition resulting from the violation.

- .060 In addition to the above, the water utility director is hereby empowered to enact other penalties and restrictive measures that are intended to abate the conductor circumstances comprising the violation, including but not limited to the following: placement of a flow restricting device upon the water service, locking off of water meter, removal of water meter, and shutting off of the service line valve.

### **Section 7732.00. Conservation Program – Year Round Stage**

The following activities are hereby prohibited:

- .010 The washing of sidewalks, walkways, driveways, public and private parking areas and all other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety;
- .011 Excessive or unreasonable run off of water or unreasonable spray of the areas being watered. Every customer is deemed to have his/her water system under control at all times, to know the manner and extent of this water use and any run off, and to employ available alternatives to apply irrigation water in a reasonably efficient manner;
- .020 Allowing, permitting or causing the escape of water through breaks or leaks within the customers plumbing or private water distribution system for any substantial period of time within which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the city of a break or leak, is a reasonable time within which to correct such break or leak, or, at a minimum, to stop the flow of water from such break or leak;

- .030 Outdoor irrigation of landscape by sprinklers during the hours of 10:00 a.m. to 6:00 p.m. Citizens are encouraged to avoid the use of sprinklers on windy days. Irrigation by hand held hose, drip irrigation, hand held bucket, or similar container or by use of a cleaning machine equipped to recycle any water used are permitted anytime. In no event shall any water so used be permitted to run off into adjacent property, streets, alleys or storm drains;
- .040 Washing of automobiles, trucks, trailers, boats, airplanes, and other types of equipment (mobile or otherwise) unless done with a hand held bucket or hand held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use to ensure the water supply is shutoff. However, this section does not apply to the washing of the above-listed vehicles or mobile equipment when conducted on the immediate premises of a commercial carwash;
- .050 All eating and drinking establishments of any kind including, but not limited to, any restaurant, hotel, cafe, cafeteria, bar or club, whether public or private, shall not provide drinking water to any person unless expressly requested.
- .060 *Exceptions:* None of these restrictions shall apply to the following:
  - .061 The routine and necessary use of water, other than for landscape irrigation, by a governmental entity in pursuit of its governmental functions for the benefit of the public, such as construction projects and for the cleaning of streets to prevent debris and harmful substances from entering water systems via storm drains;
  - .062 The necessary use of water for the routine maintenance and/or repair of water distribution facilities, residential and commercial plumbing and permanently installed landscaped irrigation systems.

**Section 7733.00. Conservation Program – Moderate Shortage Stage**

In the event the City Council determines that the measures outlined in section 7732.00 fail to produce a sufficient reduction in demand so as to produce a sufficient supply, the use of water within the city shall be additionally restricted and the following provisions shall become effective upon a declaration by the City Council and publication of same as follows:

- .010 The washing of sidewalks, walkways, driveways, public and private parking areas and all other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety;

- .020 Excessive or unreasonable run off of water or unreasonable spray of the areas being watered is prohibited. Every customer is deemed to have his/her water system under control at all times, to know the manner and extent of this water use and any run off, and to employ available alternatives to apply irrigation water in a reasonably efficient manner;
- .030 Allowing, permitting or causing the escape of water through breaks or leaks within the customers plumbing or private water distribution system for any substantial period of time within which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the city of a break or leak, is a reasonable time within which to correct such break or leak, or, at a minimum, to stop the flow of water from such break or leak;
- .040 Outdoor irrigation of landscape by sprinklers is permitted only on even days of the month for those locations having a street address with an even last digit. Outdoor irrigation by sprinklers is permitted only on odd days of the month for those locations having a street address with an odd last digit. Outdoor irrigation for locations not having a street address shall occur on even days of the month if located west of San Antonio Avenue or only on odd days of the month if located east of San Antonio Avenue. No outdoor irrigation shall take place between the hours of 10:00 a.m. and 6:00 p.m. Irrigation by hand held hose, drip irrigation, hand held bucket, or similar container or by use of a cleaning machine equipped to recycle any water used are permitted anytime. In no event shall any water so used be permitted to run off into adjacent property, streets, alleys or storm drains;
- .050 *Washing of vehicles, trailers, boats, airplanes and mobile equipment:*
  - .051 The washing of automobiles, trucks, trailers, boats, airplanes and other types of equipment (mobile or otherwise) is prohibited except on the designated outdoor water use days pursuant to section 7733.030 between the hours of 12:00 midnight to 12:00 noon and sundown to 12:00 midnight. Such washing, when allowed, shall be done with a hand held bucket or hand held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use to ensure the water supply is shutoff;
  - .052 No individual, firm or business that regularly washes vehicles for remuneration or provides facilities for customers to do so through coin operated machinery shall be permitted to operate such a business unless their place of business is equipped and operating to approved city standards with equipment to recycle water for use within their facility;
  - .053 Trucks, trailers and other types of mobile equipment (such as garbage trucks and vehicles used to transport food and other perishables) when

said washing is necessary in order to protect the health, safety and welfare of the public, shall be restricted to the hours of sundown to noon. Such washing, when allowed, shall be done with a hand held bucket or hand held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use;

- .054 Nonprofit and community based organizations' fundraising car washes shall be allowed, provided they are otherwise in accordance with all other provisions of the Upland Municipal Code and this section, and have obtained a permit to operate a nonprofit carwash from the Finance Department, the cost of same to be five dollars (\$5.00), which sum is found to cover the City's costs to issue said permit. Such activities shall be limited to no more than two (2) times in one (1) month. Permit shall become void upon the effective date of the declaration of severe shortage.
- .060 All eating and drinking establishments of any kind including, but not limited to, any restaurant, hotel, cafe, cafeteria, bar or club, whether public or private, shall only provide drinking water to any person unless expressly requested.
- .070 The refilling or adding of water to swimming pools is prohibited except on designated outdoor water use days, which shall be the same days as outdoor watering is permitted pursuant to section 7733.030.
- .080 Any non-business, operation related pond, ornamental fountain or other structure making similar use of water is prohibited.
- .090 The irrigation of golf course fairways is prohibited. This section shall not apply to the irrigation of any golf course solely with reclaimed wastewater.
- .100 The use of water from fire hydrants shall be limited to firefighting and emergency related activities and/or other activities necessary to maintain the health, safety, and welfare of the citizens of Upland. This restriction shall not apply to businesses, which require the use of water for land development and building construction processes, pursuant to prior written approval by the Review Board as defined in section 7736.00.
- .110 *Exceptions:* None of the moderate shortage restrictions shall apply to the following uses of water:
  - .111 The routine and necessary use of water, other than for landscape irrigation, by a governmental entity in pursuit of its governmental functions for the benefit of the public, such as construction projects and for the cleaning of streets to prevent debris and harmful substances from entering water systems via storm drains;

- .112 The routine and necessary use of water, other than for landscape irrigation, for land development (e.g., roadway base preparation, flushing of utility lines, dust control, concrete and asphalt work) and for building construction processes;
- .113 The necessary use of water for the routine maintenance and/or repair of water distribution facilities, residential and commercial plumbing and permanently installed landscape irrigation systems;
- .114 The use of water necessary to irrigate large, landscaped areas in commercial and institutional establishments as authorized by the terms and conditions of an approved compliance agreement issued by the Review Board, as defined in section 7736.00;
- .115 The use of water pursuant to the approved terms and conditions of a variance granted by the Review Board as defined in section 7736.00.

**Section 7734.00. Conservation Program – High Shortage Stage**

In the event the City Council determines that the measures outlined in section 7733.00 fail to produce a sufficient reduction in demand so as to produce a sufficient supply, the use of water within the city shall be additionally restricted and the following provisions shall become effective upon a declaration by the City Council and publication of same as follows:

- .010 The washing of sidewalks, walkways, driveways, public and private parking areas and other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety is prohibited;
- .020 Excessive run off of water or unreasonable spray of the areas being watered is prohibited. Every customer is deemed to have his/her water system under control at all times, to know the manner and extent of this water use and any run off, and to employ available alternatives to apply irrigation water in a reasonably efficient manner;
- .030 Allowing, permitting or causing the escape of water through breaks or leaks within the customers plumbing or private water distribution system for any substantial period of time within which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the city of a break or leak, is a reasonable time within which to correct such break or leak, or, at a minimum, to stop the flow of water from such break or leak;

- .040 Outdoor irrigation of landscape by sprinklers is permitted only on Wednesday and Sunday for those locations having street address with an even last digit. Outdoor irrigation by sprinklers is permitted only on Tuesday and Saturday for those locations having a street address with an odd last digit. Outdoor irrigation for locations not having a street address shall occur on Wednesday and Sunday if located west of San Antonio Avenue or only on Tuesday and Saturday if located east of San Antonio Avenue. No outdoor irrigation shall take place between 6:00 a.m. until one (1) hour before sundown. Irrigation by hand held hose, drip irrigation, or hand held bucket or similar container or by use of a cleaning machine equipped to recycle any water used are permitted anytime. In no event shall any water so used be permitted to run off into adjacent property, streets, alleys or storm drains;
- .050 *Washing of vehicles, trailers, boats, airplanes and mobile equipment:*
- .051 The washing of automobiles, trucks, trailers, boats, airplanes and other types of equipment (mobile or otherwise) is prohibited except on the designated outdoor water use days pursuant to section 7734.040 between the hours of 12:00 midnight to 12:00 noon and sundown to 12:00 midnight. Such washing, when allowed, shall be done with a hand held bucket or hand held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use to ensure the water supply is shutoff;
- .052 No individual, firm or business that regularly washes vehicles for remuneration or provides facilities for customers to do so through coin operated machinery shall be permitted to operate such a business unless their place of business is equipped and operating to approved city standards with equipment to recycle water for use within their facility;
- .053 Trucks, trailers and other types of mobile equipment (such as garbage trucks and vehicles used to transport food and other perishables) when said washing is necessary in order to protect the health, safety and welfare of the public, shall be restricted to the hours of sundown to noon. Such washing, when allowed, shall be done with a hand held bucket or hand held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use;
- .054 Nonprofit and community based organizations' fundraising car washes shall be allowed, provided they are otherwise in accordance with all other provisions of the Upland Municipal Code and this section, and have obtained a permit to operate a nonprofit carwash from the Finance Department, the cost of same to be five dollars (\$5.00), which sum is found to cover the City's costs to issue said permit. Such

activities shall be limited to no more than two (2) times in one (1) month. Permit shall become void upon the effective date of the declaration of severe shortage.

- .060 All eating and drinking establishments of any kind whatsoever including, but not limited to, any restaurant, hotel, cafe, cafeteria, bar or club, whether public or private, shall only provide drinking water to any person unless expressly requested.
- .070 The refilling or adding of water to existing swimming pools is prohibited except on designated outdoor water use days which shall be the same days as outdoor water is permitted pursuant to section 7734.040. New pool construction filling shall be by permit only.
- .080 Any non-business, operation related pond, ornamental fountain or other structure making similar use of water is prohibited.
- .090 The waters of golf course tee areas and fairways is prohibited unless done with reclaimed wastewater.
- .100 The use of water from fire hydrants shall be limited to firefighting and emergency related activities and/or other activities necessary to maintain the health, safety, and welfare of the citizens of Upland. This restriction shall not apply to businesses, which require the use of water for land development and building construction processes, pursuant to prior written approval by the Review Board as defined in section 7736.00.
- .110 *Exceptions:* None of the high shortage restrictions shall apply to the following uses of water, provided there is prior written approval by the Review Board as defined in section 7736.00:
  - .111 The routine and necessary use of water, other than for landscape irrigation, by a governmental entity in pursuit of its governmental functions for the benefit of the public, such as construction projects and for the cleaning of streets to prevent debris and harmful substances from entering water systems via storm drains;
  - .112 The routine and necessary use of water, other than for landscape irrigation, for land development (e.g., roadway base preparation, flushing of utility lines, dust control, concrete and asphalt work) and for building construction processes;
  - .113 The necessary use of water for the routine maintenance and/or repair of water distribution facilities, residential and commercial plumbing and permanently installed landscape irrigation systems;
  - .114 The use of water necessary to irrigate large landscaped areas in commercial and institutional establishments as authorized by the

terms and conditions of an approved compliance agreement is issued by the Review Board, as defined in section 7736.00.

**Section 7735.00. CONSERVATION PROGRAM – SEVERE SHORTAGE STAGE**

In the event the City Council determines that the measures outlined in section 7734.00 fail to produce a sufficient reduction in demand so as to produce a sufficient supply, then the use of water within the city shall be additionally restricted and the following provisions shall become effective upon a declaration by the City Council and publication of same as follows:

- .010 The washing of sidewalks, walkways, driveways, public and private parking areas and other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety is prohibited;
- .020 Excessive run off of water or unreasonable spray of the areas being watered is prohibited. Every customer is deemed to have his/her water system under control at all times, to know the manner and extent of this water use and any run off, and to employ available alternatives to apply irrigation water in a reasonably efficient manner;
- .030 Allowing, permitting or causing the escape of water through breaks or leaks within the customers plumbing or private water distribution system for any substantial period of time within which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the city of a break or leak, is a reasonable time within which to correct such break or leak, or, at a minimum, to stop the flow of water from such break or leak;
- .040 Outdoor irrigation of landscape by sprinklers is permitted only on Sunday for those locations having street address with an even last digit. Outdoor irrigation by sprinklers is permitted only on Saturday for those locations having a street address with an odd last digit. Outdoor irrigation for locations not having a street address shall occur on Sunday if located west of San Antonio Avenue or only on Tuesday and Saturday if located east of San Antonio Avenue. No outdoor irrigation shall take place between 6:00 a.m. until one (1) hour before sundown. Irrigation by hand held hoses, drip irrigation, or hand held bucket, or similar container or by use of a cleaning machine equipped to recycle any water used are permitted anytime. In no event shall any water so used be permitted to run off into adjacent property, streets, alleys or storm drains;
- .050 *Washing of vehicles, trailers, boats, airplanes and mobile equipment.*

- .051 The washing of automobiles, trucks, trailers, boats, airplanes, and other types of equipment (mobile or otherwise) is prohibited except as provided elsewhere in this section;
- .052 No individual, firm or business that regularly washes vehicles for remuneration or provides facilities for customers to do so through coin operated machinery shall be permitted to operate such a business unless their place of business is equipped and operating to approved city standards with equipment to recycle water for use within their facility. Washing of vehicles in such facilities shall occur only between the hours of 6:00 a.m. and 12:00 noon;
- .053 Trucks, trailers, and other types of mobile equipment (such as garbage trucks and vehicles used to transport food and other perishables) when said washing is necessary in order to protect the health, safety and welfare of the public, shall be restricted to the hours of sundown to 12:00 noon. Such washing when allowed, shall be done with a hand held bucket or hand held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use.
- .060 All eating and drinking establishments of any kind including, but not limited to, any restaurant, hotel, cafe, cafeteria, bar or club, whether public or private, shall only provide drinking water to any person unless expressly requested.
- .070 Washing sidewalks, driveways, public and private parking areas, tennis courts, patios, or other paved areas, except to alleviate an immediate health hazard is prohibited.
- .080 The refilling or adding of water to existing swimming pools is prohibited except on designated outdoor water use days which shall be the same days as outdoor water is permitted pursuant to section 7735.030. New pool construction filling shall be by permit only.
- .090 Any non-business, operation related pond, ornamental fountain or other structure making similar use of water is prohibited.
- .100 The watering of golf course tee areas and fairways is prohibited unless done with reclaimed wastewater.

**Section 7736.00. IMPLEMENTATION**

- .010 *Review board; variances, permits and compliance agreements.* A Review Board is hereby established to review special cases, which cannot follow the letter of this part. Said Review Board shall consist of the Water Utility Direc-

tor, the City Engineer, the Fire Chief, the City Planning Director and the City Attorney, or their appointed representative.

- .011 Appeal of Review Board decisions shall be made to the City Council. It is the purpose of the Review Board to review special cases and to determine whether or not said case warrants a variance, permit or compliance agreement including conditions of approval. Said board shall consider the facts of each case and decide whether to grant a variance or a permit or to enter into a compliance agreement within five (5) working days of the receipt of a properly completed "Application for Variance/Permit/Compliance Agreement" form.
- .012 A variance shall be granted only for reasons of economic hardship, which is defined as a threat to an individual business's primary source of income. (Under no circumstances shall inconvenience or the potential for damage of landscaping be considered an economic hardship, which justifies a variance.) The board shall authorize only the implementation of equitable water use restrictions, which further the purpose and intent of the water conservation plan. The special water use restrictions authorized by the board in each case shall be set forth on the face of the variance, permit or compliance agreement. A nonrefundable fee of fifty dollars (\$50.00) per permit application for all requests shall be assessed to reimburse the City for administrative costs.
- .020 A variance or permit issued under moderate shortage shall not be valid upon implementation of high or severe shortage stages unless the permit specifically addresses either or both of those stages upon initial issuance. Said multi-stage permit would have to reflect significant additional savings of water, or nonuse of water, under progressively more critical shortage stages. A variance or permit shall expire under its own terms and conditions and/or when another water conservation stage is in effect.
- .021 *Exception:* If, within the period of the permit, the conservation stage for which the permit was originally issued is reinstated, the permit will be considered valid until the original expiration date, as long as that conservation stage is in effect.
- .030 Any person, corporation or association who is issued a variance or permit and makes use of water pursuant to said variance, permit or compliance agreement shall provide proof of said variance, permit or compliance agreement upon demand by any peace officer or person authorized by the city to enforce this chapter.
- .040 Upon conviction of a person, corporation or association of violating any provision of this part, the Review Board shall revoke any permit, variance, or compliance agreement previously granted. However, the board shall notify applicant of the proposed revocation five (5) working days before taking such

action, and applicant shall be given the opportunity to be heard by the Review Board prior to its taking such action.

- .050 Persons wishing to appeal the decision of the Review Board shall have the right of appeal to the City Council. Appeal shall be made in writing within ten (10) working days of the Review Board decision. The decision of the City Council shall be final.

#### **PART 4. WATER CONSERVATION RETROFIT**

##### **Section 7737.00. RETROFIT**

- .010 *Findings and objectives.*

.011 Water is a precious commodity of limited supply. The City Council is the trustee of the City's domestic water supply. The general welfare of the citizens of Upland and its environs requires that the water resources available to the city be utilized with maximum efficiency.

##### **Section 7738.00. APPLICATION**

- .010 When the owner(s) of a facility listed in this Section replaces any plumbing fixture as defined in Section 7739.00, the plumbing fixture shall be replaced with a water conserving plumbing fixture as set forth in Section 7739.00 or otherwise required by law. The provisions of this part shall apply to the following facilities:

.011 Single-family residences and apartment buildings:

.012 Commercial buildings;

.013 Hotels and motels;

.014 Health and fitness centers;

.015 Schools and day care centers;

.016 Shopping centers and malls.

- .020 *The provisions of this part shall not apply to the following facilities:*

.021 Facilities equipped with water-conserving plumbing fixtures, which meet plumbing device specifications approved by the city building inspection department, pursuant to this part.

.022 Facilities wherein water use fixtures cannot be retrofitted to achieve further water use reduction, as determined by the Chief Building

Official, pursuant to this part and recorded in the City's permanent records.

- .023 Facilities wherein water use reduction would threaten health and/or safety or historical cultural value of a structure, where such condition is documented by affidavit submitted to and approved by the chief building officials.
- .024 Facilities wherein retrofitting for water use reduction cannot be done so as to ensure a three-year simple pay-back period, as determined by the chief building official on the basis of generally accepted business principles. Simple payback is based upon contractor-installed cost of labor and material.

### **Section 7739.00. DEFINITIONS**

In this chapter, the following special terms have the following meanings:

*Aerator:* A device attached to a faucet outlet which reduces flow by introducing air bubbles into the water stream, thereby reducing the degree of splashing and creating the appearance of a greater flow than actually exists.

*City water utility customer:* Any individual, association, corporation, partnership or entity which obtains all or a portion of its water supply from the city.

*Flow restrictor:* An in-line device incorporated into a faucet to reduce the opening through which water passes, thereby yielding a maximum flow increasing roughly in proportion to water pressure.

*Flush tank water saver:* A flexible, double-edged panel to be used as a dam to withhold part of the flush tank water that would normally drain into the bowl upon flushing.

*Flush valve water saver:* A device installed in flush valves of commercial toilets and urinals in order to shorten the flush cycle and reduce the volume of water flow during flush.

*Low flow self-cleaning showerhead:* A showerhead device, furnished with one-half-inch IP thread to fit standard shower arms, designed to provide dispersed water flow and contain built-in mechanism to reduce the amount of water allowed to flow when operating. The device is also capable of automatically cleaning debris such as mineral deposits, rust scale or other impurities from the water channels or pores located in the showerhead without the use of special tools.

*Owner:* Any individual, association, nonprofit corporation, professional association, joint stock company, corporation, proprietorship, partnership or joint venture, having a freehold interest in a facility listed in section 7738.00 herein.

*Spray tap:* A faucet, which delivers water in a broad pattern of droplets and is capable of reducing the flow rate to one or two (2) gallons per minute (gpm).

*Water conservation retrofit:* The modification and/or replacement of fixtures or trim with fixtures and trim not exceeding the following flow rates and/or water usage. These rates are based on a pressure at the fixture of twenty (20) to eighty (80) psi.

	<b>Gallons</b>
(1) Toilets, tank type, per flush	1.6
(2) Urinals, tank type, per flush	1.0
(3) Showerheads, per minute	2.5
(4) Bathroom and kitchen faucets, per minute	2.2

#### **Section 7740.00. WATER CONSERVATION STANDARDS**

.010 *Toilets.* The owner of a facility listed in section 7738.00 herein, where such facility itself, or the individual tenants or users of such facility are city water utility customers, shall install and maintain toilet(s) conforming to the specification indicated in section 7739.00.

.020 *Enforcement.*

.021 As of May 23, 1990, the violation of Section 7737 through section 7740 of the Upland Municipal Code shall be a misdemeanor offense and upon conviction, any person violating these sections shall be punished by a fine of not less than one hundred dollars (\$100.00), nor more than two hundred dollars (\$200.00) or by imprisonment in the county jail not exceeding six (6) months or both.

.022 An alleged violator of this chapter shall be given written notice thereof and seventy-two (72) hours within which to install, repair or replace the required water conservation devices. Failure to do so will give rise to a presumption of intent to violate this chapter thereafter.

.023 Each day a violation of this chapter continues shall constitute a distinct and separate offense.

.024 Nothing herein shall limit the City's authority to seek injunctive or other civil relief available under the law.

#### **Section 7741.00. WATER CONSERVING PLUMBING FIXTURES FOR NEW CONSTRUCTION**

- .010 No certificate of occupancy shall be issued for any new construction unless all plumbing fixtures to be installed meet the requirements set forth in subsection .020 notwithstanding compliance with any other building or plumbing code. As used in this section, new construction means any construction of a previously nonexistent structure requiring a building permit or other discretionary permit issued after the effective date of the ordinance adopting this section.
- .020 *All plumbing fixtures installed in new construction shall meet the following requirements:*
- .021 Toilets and associated flush valves shall be rated at not more than 1.6 gallons per flush,
- .022 Urinals and associated flush valves shall be rated at not more than 1.0 gallon per flush,
- .023 Showerheads shall have a rated flow of 2.5 gallons per minute or less,
- .024 Bathroom faucets shall have aerators or laminar flow devices together with flow control inserts; valves, devices or orifices that restrict flow to a maximum of approximately 2.2 gallons per minute.
- .025 City staff shall advise all persons seeking permits for new construction of the plumbing fixture requirements set forth in this section.

**Section 7742.00. REQUIREMENTS FOR INSTALLATION OF WATER CONSERVING TOILET FIXTURES**

- .010 *Definitions.*
- .011 Water-Conserving Toilet Fixture: Any toilet and associated flush valve that use no more than 1.6 gallons of water per flush or urinals and associated flush valve that use no more than 1.0 gallons of water per flush.
- .020 *Mandatory Retrofit of all Toilets With Water Conserving Toilet Fixtures.*
- .021 All existing toilets in existing structures receiving water from the City's water system shall be retrofitted, if not already done, exclusively with water-conserving toilets as defined in Section 7742.020 of this ordinance on, or before July 1, 2006.
- .030 *Compliance and Penalties.*
- .031 If the retrofit installation required by this regulation is not completed by the required date and the City later determines or finds that the work was not done or was not completed or that the water conserving

toilet fixtures are no longer present, the City may, at its discretion assess a fine of \$500 to the owner of the property. Prior to the imposition of any fine the owner of the property will be provided a cure period of 30 days to demonstrate that the required retrofit work has in fact been done. A site inspection shall be required in such cases and the owner shall be charged a penalty of \$50 for each such site inspection as an added fee on the owner's plumbing permit. If the owner of the property fails to complete the required work after 30 days, water to the property shall be shut-off until such time as the property owner demonstrates compliance with this section.

*.032 Variances and Exemption.*

.0321 Any owner of real property may seek a variance or exemption from the retrofit requirement. The process shall be as set forth in Section 7736.00.

**Section 7743.00. LANDSCAPE GUIDELINES**

*.010 Purpose.*

.011 To promote the values and benefits of landscapes while recognizing the need to invest water and other resources as efficiently as possible; to suggest a structure for designing, installing, and maintaining water efficient landscapes in new projects; and to recommend provisions for water management practices and water waste prevention for established landscapes.

*.020 Landscape Design.*

.021 It is recommended that the owner consult with a landscape design Professional when designing a new landscape or renovating an existing landscape.

.022 Plants having similar water use shall be grouped together and served by a valve or set of valves with the same schedule.

.023 Plants should be selected appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the landscape site. Protection and preservation of native species and natural areas is encouraged.

*.030 Water Features.*

.031 Recirculating water should be used for decorative water features.

.032 Pool and spa covers are encouraged.

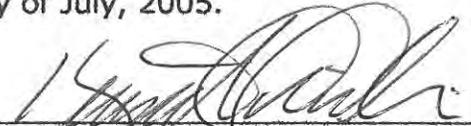
*.040 Irrigation Design.*

- .041 It is recommended that the owner consult with an irrigation professional when installing automatic landscaping systems.
- .042 Soil types and infiltration rate should be considered when designing irrigation systems. All irrigation systems should be designed to avoid runoff, low head drainage, over spray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways, or structures. Proper irrigation equipment and schedules, including features such as repeat cycles, should be used to closely match application rates to infiltration rates therefore minimizing runoff.
- .043 Special attention should be given to avoid runoff on slopes and to avoid over-spray in planting areas with a width less than ten feet.
- .044 Controllers. Automatic control systems should accommodate all aspects of the design.
- .045 Valves. Separate valves should irrigate plants, which require different amounts of water. If one valve is used for a given area, only plants with similar water use should be used in that area.
- .046 Sprinkler Heads. Heads and emitters should have consistent application rates within each control valve circuit. Sprinkler heads should be selected for proper area coverage, application rate, operating pressure, adjustment capability, and ease of maintenance.
- .047 Rain Sensing Override Devices. Rain sensing override devices should be required on all irrigation systems.
- .048 Soil Moisture Sensing Devices. It is recommended that soil moisture sensing devices be considered where appropriate.
- .049 Recycled Water. Recycled water should be used when and where practical.
- .050 Automatic irrigation systems should be operated by an electric time controller set for early morning irrigation. The controller shall support a minimum of three start times per irrigation day per valve (station) and shall permit programming each valve with individual run times.

**SECTION 2.** If any section, subsection, sentence, clause, phrase, or portion of this Ordinance is for any reason held to be invalid or unenforceable by a court of competent jurisdiction, the remaining portions of this Ordinance shall nonetheless remain in full force and effect. The people of the City of Upland hereby declare that they would have adopted each section, subsection, sentence, clause,

phrase, or portion of this Ordinance, irrespective of the fact that anyone or more sections, subsections, sentences, clauses, phrases, or portions of this Ordinance be declared invalid or unenforceable.

The foregoing ordinance was PASSED, APPROVED AND ADOPTED by the City Council of the City of Upland on the 11th day of July, 2005.

  
\_\_\_\_\_  
Kenneth W. Willis, Mayor Pro Tem

ATTEST:

  
\_\_\_\_\_  
Stephanie A. Mendenhall, City Clerk

I, Stephanie A. Mendenhall, City Clerk of the City of Upland, California, do hereby certify that the foregoing Ordinance was introduced at a regular meeting of the City Council of the City of Upland held on the 27<sup>th</sup> day of June, 2005, and was adopted at a regular meeting of the City Council of the City of Upland on the 11th day of July, 2005, by the following roll call vote:

AYES: Mayor Pro Tem Willis, Councilmembers Musser, Thomas

NOES: None ABSENT: Mayor Pomierski, Councilmember Brant

ABSTAINED: None

  
\_\_\_\_\_  
Stephanie A. Mendenhall, City Clerk



## **Appendix G**

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# **Annual Water Use Efficiency Programs Report**



**CITY OF UPLAND**  
**Annual Water Use Efficiency Programs Report**  
**FY 2014-2015**



# City of Upland

## 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) <sup>(1)</sup>
					Outside Funding	IEUA	MWD	Total	
<b>FY 2014-2015</b>									
<b>SoCal Water\$mart Residential Rebates</b>									
High Efficiency Toilets (HET)	78	1,080,359	3	66	\$0	\$3,900	\$3,900	\$7,800	3.1
High Efficiency Clothes Washers (HECW)	120	1,079,381	3	50	\$0	\$7,800	\$10,200	\$18,000	7.2
Rotating Nozzles for Pop-up Spray Heads	344	448,438	1	7	\$0	\$344	\$1,376	\$1,720	1.7
Weather based Irrigation Controllers (WBIC)	10	1,059,175	3	33	\$0	\$700	\$800	\$1,500	0.6
Turf Removal (11,453 Sq. Ft.)	9	482,332	1.48	15	\$0	\$0	\$22,076	\$22,076	19.8
Rain Barrels	16	1,694,680	5	52	\$0	\$0	\$1,200	\$1,200	0.3
<b>IEUA Locally Implemented Residential Programs</b>									
FreeSprinklerNozzles.com Program	860	1,121,096	3	17	\$0	\$0	\$38,700	\$38,700	15.0
Residential Landscape Retrofit Program (0 WBIC/0 Nozzles)	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Landscape Transformation Program (16,550 Sq. Ft.)	19	349,039	1.07	11	\$0	\$22,524	\$33,100	\$55,624	69.1
<b>Subtotal</b>	<b>1,456</b>	<b>7,314,500</b>	<b>22</b>	<b>250</b>	<b>\$0</b>	<b>\$35,268</b>	<b>\$111,352</b>	<b>\$146,620</b>	<b>117</b>
<b>SoCal Water\$mart Commercial Rebates</b>									
High Efficiency Toilets (HET)	25	346,269	1	21	\$0	\$100	\$200	\$300	0.4
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)	4	423,670	1	13	\$0	\$4,921	\$23,418	\$28,339	29.0
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	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Turf Removal (127,969 Sq. Ft.)	12	5,421,663	16.64	166	\$0	\$127,969	\$255,938	\$383,907	30.7
<b>IEUA Locally Implemented Commercial Programs</b>									
FreeSprinklerNozzles.com Program	400	521,440	2	8	\$0	\$0	\$1,300	\$1,300	1.1
<b>Subtotal</b>	<b>441</b>	<b>6,713,041</b>	<b>21</b>	<b>209</b>	<b>\$0</b>	<b>\$132,990</b>	<b>\$280,856</b>	<b>\$413,847</b>	
<b>TOTAL</b>	<b>1,897</b>	<b>14,027,541</b>	<b>43</b>	<b>459</b>	<b>\$0</b>	<b>\$168,258</b>	<b>\$392,208</b>	<b>\$560,467</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					Outside Funding	IEUA	MWD	Total	
<b>FY 2013-2014</b>									
<b>SoCal Water\$mart Residential Rebates</b>									
High Efficiency Toilets (HET)	52	720,131	2	44	\$0	\$2,600	\$2,600	\$5,200	3.1
High Efficiency Clothes Washers (HECW)	125	1,124,186	3	52	\$0	\$8,125	\$10,625	\$18,750	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)	12	1,270,819	4	39	\$0	\$840	\$960	\$1,800	0.6
Rain Barrels	27	2,859,343	9	88	\$0	\$0	\$2,025	\$2,025	0.3
<b>IEUA Locally Implemented Residential Programs</b>									
FreeSprinklerNozzles.com Program	2,538	3,308,039	10	51	\$0	\$0	\$34,938	\$34,938	4.6
Residential Landscape Retrofit Program (39 WBIC/486 Nozzles)	24	4,887,765	15	138	\$12,043	\$0	\$12,043	\$24,086	2.1
Landscape Transformation Program (7,650 Sq. Ft.)	9	348,986	1.07	11	\$0	\$14,733	\$8,700	\$23,433	29.1
<b>Subtotal</b>	<b>2,789</b>	<b>14,521,876</b>	<b>45</b>	<b>422</b>	<b>\$12,043</b>	<b>\$26,300</b>	<b>\$71,899</b>	<b>\$110,242</b>	<b>49</b>
<b>SoCal Water\$mart Commercial Rebates</b>									
High Efficiency Toilets (HET)	2	27,697	0	2	\$0	\$100	\$200	\$300	4.7
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)	51	5,400,980	17	166	\$0	\$4,921	\$23,418	\$28,339	2.3
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	315	2,360,790	7	72	\$0	\$3,150	\$3,150	\$6,300	1.2
Air-Cooled Ice Machine	0	0	0	0	\$0	\$0	\$0	\$0	0.0
Turf Removal	0	0	0	0	\$0	\$0	\$0	\$0	0.0
<b>IEUA Locally Implemented Commercial Programs</b>									
FreeSprinklerNozzles.com Program	3,917	5,105,433	16	78	\$0	\$0	\$12,730	\$12,730	1.1
<b>Subtotal</b>	<b>4,285</b>	<b>12,894,902</b>	<b>40</b>	<b>318</b>	<b>\$0</b>	<b>\$8,171</b>	<b>\$39,498</b>	<b>\$47,670</b>	
<b>TOTAL</b>	<b>7,074</b>	<b>27,416,777</b>	<b>84</b>	<b>740</b>	<b>\$12,043</b>	<b>\$34,471</b>	<b>\$111,397</b>	<b>\$157,912</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					Outside Funding	IEUA	MWD	Total	
<b>FY 2012-2013</b>									
<b>SoCal Water\$mart Residential Rebates</b>									
High Efficiency Toilets (HET)	0	0	0	0	\$0	\$0	\$0	\$0	0.0
High Efficiency Clothes Washers (HECW)	109	980,290	3.01	45.13	\$0	\$7,085	\$9,265	\$16,350	7.5
Rotating Nozzles for Pop-up Spray Heads	1	1,303	0	0.02	\$0	\$1	\$4	\$5	1.7
Weather based Irrigation Controllers (WBIC)	5	529,508	1.63	16.25	\$0	\$350	\$400	\$750	0.6
<b>IEUA Locally Implemented Residential Programs</b>									
FreeSprinklerNozzles.com Program	2,525	3,291,095	10.10	50.50	\$0	\$0	\$34,938	\$34,938	4.8
Residential Landscape Retrofit Program	23	5,865,318	18	140	\$11,631	\$1,894	\$13,524	\$27,049	2.1
Landscape Transformation Program (2,954 Sq. Ft.)	3	134,759	0.41	4.14	\$861	\$2,381	\$2,869	\$6,111	20.3
<b>Subtotal</b>	<b>2,666</b>	<b>10,802,273</b>	<b>33</b>	<b>256</b>	<b>\$12,492</b>	<b>\$11,711</b>	<b>\$61,000</b>	<b>\$85,203</b>	<b>37</b>
<b>IEUA High Efficiency Toilet (HET) Installation Prog.</b>									
IEUA Multi-Family Direct Install Prog. (HET)	256	3,545,259	10.88	217.60	\$18,775	\$9,129	\$12,800	\$40,704	5.1
IEUA Single-Family Direct Install Prog. (HET)	633	8,766,207	26.90	538.05	\$46,424	\$22,573	\$31,650	\$100,647	5.1
<b>Subtotal</b>	<b>889</b>	<b>12,311,465</b>	<b>38</b>	<b>756</b>	<b>\$65,199</b>	<b>\$31,702</b>	<b>\$44,450</b>	<b>\$141,351</b>	
<b>SoCal Water\$mart Commercial Rebates</b>									
High Efficiency Toilets (HET)	0	0	0	0	0	\$0	\$0	\$0	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
High Efficiency Clothes Washers	0	0	0	0	0	\$0	\$0	\$0	0.0
Weather based Irrigation Controllers (WBIC)	27	2,859,343	8.78	87.75	0	\$1,474	\$4,140	\$5,614	0.9
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	200	1,498,915	4.60	23	0	\$2,000	\$2,000	\$4,000	1.2
Air-Cooled Ice Machine	0	0	0	0	0	\$0	\$0	\$0	0.0
<b>IEUA Locally Implemented Commercial Programs</b>									
Fontana Unified School Retrofit Program	0	0	0	0	0	\$0	\$0	\$0	0.0
FreeSprinklerNozzles.com Program	5,300	6,908,041	21.2	106.0	0	\$0	\$17,225	\$17,225	1.1
<b>Subtotal</b>	<b>5,527</b>	<b>11,266,298</b>	<b>35</b>	<b>217</b>	<b>\$0</b>	<b>\$3,474</b>	<b>\$23,365</b>	<b>\$26,840</b>	
<b>TOTAL</b>	<b>9,082</b>	<b>34,380,037</b>	<b>106</b>	<b>1,228</b>	<b>\$77,691</b>	<b>\$46,887</b>	<b>\$128,815</b>	<b>\$253,394</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					DWR	IEUA	MWD	Total	
<b>FY 2011-2012</b>									
<b>Residential Rebate Programs</b>									
High Efficiency Clothes Washers (HECW)	130	1,169,153	3.59	53.82	0	0	11,050	11,050	4.5
Rotating Nozzles for Pop-up Spray Heads	31	40,406	0.12	0.62	0	62	93	155	1.8
Weather Based Irrigation Controllers (WBIC)	11	1,164,917	3.58	35.75	0	495	880	1,375	0.6
FreeSprinklerNozzles.com Program	10,624	13,849,446	42.50	212.48	0	0	32,250	32,250	1.1
Residential Landscape Retrofit Program	5	1,303,600	4.00	35.00	0	3,262	3,053	6,315	2.3
<b>Subtotal</b>	<b>10,801</b>	<b>17,527,523</b>	<b>54</b>	<b>337.67</b>	<b>0.00</b>	<b>3,819.00</b>	<b>47,326.00</b>	<b>51,145.14</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET)</b>									
IEUA Multi-Family Direct Install Prog. (HET)	36	498,552	1.53	30.60	2,640	1,284	1,800	5,724	5.5
IEUA Single-Family Direct Install Prog. (HET)	794	10,995,842	33.75	674.90	58,232	28,314	39,700	126,246	5.5
<b>Subtotal</b>	<b>830</b>	<b>11,494,394</b>	<b>35</b>	<b>705.50</b>	<b>60,872.20</b>	<b>29,598</b>	<b>41,500</b>	<b>131,970.00</b>	
<b>CII Save-A-Buck Rebate Program</b>									
High Efficiency Toilets (HET)	0	0	0.00	0.00	0	0	0	0	0.0
Waterless Urinals	0	0	0.00	0.00	0	0	0	0	0.0
PH 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)	1	105,902	0.33	3.25	0	117	600	717	3.2
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	2,000	11,730,636	36.00	360.00	0	0	26,000	0	0.0
Central Computerized Irrigation Controller	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>2,001</b>	<b>11,836,538</b>	<b>36</b>	<b>363.25</b>	<b>1.00</b>	<b>117.00</b>	<b>26,600.00</b>	<b>717.00</b>	
<b>TOTAL</b>	<b>13,632</b>	<b>40,858,454</b>	<b>125</b>	<b>1,406.42</b>	<b>60,873.20</b>	<b>33,533.80</b>	<b>115,426.00</b>	<b>183,832.14</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					DWR	IEUA	MWD	Total	
<b>FY 2010-2011</b>									
<b>Residential Rebate Programs</b>									
High Efficiency Toilets (HET)	13	180,033	0.55	11.05	0	455	650	1,105	4.0
High Efficiency Clothes Washers (HECW)	229	2,059,509	6.32	94.81	0	0	19,465	19,465	6.2
Rotating Nozzles for Pop-up Spray Heads	247	321,941	0.99	4.94	0	494	741	1,235	2.5
Weather Based Irrigation Controllers (WBIC)	5	529,508	1.63	16.25	0	225	400	625	0.0
Synthetic Turf (694 Sq. Ft.)	1	31,664	0.10	0.97	0	312	208	521	10.7
FreeSprinklerNozzles.com Program	430	560,548	1.72	8.60	0	0	32,250	32,250	37.6
Residential Landscape Retrofit Program	17	4,562,600	14.00	117.00	0	11,287	8,831	20,118	2.9
<b>Subtotal</b>	<b>942</b>	<b>8,245,802</b>	<b>25</b>	<b>253.62</b>	<b>0.00</b>	<b>12,773.33</b>	<b>62,545.20</b>	<b>75,318.53</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET)</b>									
IEUA Multi-Family Direct Install Prog. (HET)	117	1,620,294	4.97	99.45	8,581	4,172	5,850	18,603	7.5
<b>Subtotal</b>	<b>117</b>	<b>1,620,294</b>	<b>5</b>	<b>99.45</b>	<b>8,580.78</b>	<b>4,172</b>	<b>5,850</b>	<b>18,603.00</b>	
<b>CII Save-A-Buck Rebate Program</b>									
High Efficiency Toilets (HET)	30	415,460	1.28	25.50	0	1,050	1,500	2,550	4.0
Waterless Urinals	5	199,910	0.61	12.27	0	250	1,000	1,250	0.0
PH Conductivity Controller	1	209,848	0.64	3.22	0	500	1,750	2,250	0.0
Weather Based Irrigation Controllers (WBIC)	1	105,902	0.33	3.25	0	480	1,200	1,680	10.4
Synthetic Turf (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
Pre-Rinse Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>37</b>	<b>931,119</b>	<b>3</b>	<b>44.24</b>	<b>0.00</b>	<b>2,280</b>	<b>5,450</b>	<b>7,730.00</b>	
<b>TOTAL</b>	<b>1,096</b>	<b>10,797,216</b>	<b>33</b>	<b>397.31</b>	<b>8,580.78</b>	<b>19,225.55</b>	<b>73,845.20</b>	<b>101,651.53</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					DWR	IEUA	MWD	Total	
<b>FY 2009-2010</b>									
<b>Residential Rebate Programs</b>									
High Efficiency Toilets (HET)	56	775,525	2.38	47.60	0	1,960	2,800	4,760	4.0
High Efficiency Clothes Washers (HECW)	63	566,590	1.74	26.08	0	3,150	6,930	10,080	11.6
Rotating Nozzles for Pop-up Spray Heads	35	45,619	0.14	0.70	0	70	140	210	3.0
Weather Based Irrigation Controllers (WBIC)	0	0	0.00	0.00	0	0	0	0	0.0
Water Wise Landscape (Turf Buy Back) (0 Sq. Ft.)	0	0	0.00	0.00	0	0	0	0	0.0
Synthetic Turf (8,348 Sq. Ft.)	4	380,829	1.17	11.69	0	3,757	2,504	6,261	10.7
<b>Subtotal</b>	<b>158</b>	<b>1,768,563</b>	<b>5</b>	<b>86.07</b>	<b>0</b>	<b>8,937</b>	<b>12,374</b>	<b>21,311</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET)</b>									
IEUA Multi-Family Direct Install Prog. (HET)	4	55,395	0.17	3.40	293	143	660	1,096	12.9
<b>Subtotal</b>	<b>4</b>	<b>55,395</b>	<b>0</b>	<b>3.40</b>	<b>293.36</b>	<b>143</b>	<b>660</b>	<b>1,096.00</b>	
<b>CII Save-A-Buck Rebate Program</b>									
ULFT Tank	0	0	0.00	0.00	0	0	0	0	0.0
High Efficiency Toilets (HET)	198	2,742,036	8.42	168.30	0	26,730	32,670	59,400	14.2
Waterless Urinals	22	879,602	2.70	53.99	0	0	8,800	8,800	0.0
High Efficiency Clothes Washers	29	260,811	0.80	8.00	0	2,900	2,320	5,220	0.0
Water Brooms	0	0	0.00	0.00	0	0	0	0	0.0
Weather Based Irrigation Controllers (WBIC)	22	2,329,835	7.15	71.50	0	1,680	14,014	15,694	0.0
Synthetic Turf (Sq. Ft.)	0	0	0.00	0.00	0	0	0	0	0.0
Rotating Nozzles for Pop-up Spray Heads	1,642	2,140,189	6.57	32.84	0	0	6,568	0	0.0
Pre-Rinse Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>1,913</b>	<b>8,352,474</b>	<b>26</b>	<b>334.63</b>	<b>0.00</b>	<b>31,310</b>	<b>64,372</b>	<b>89,114.00</b>	
<b>TOTAL</b>	<b>2,075</b>	<b>10,176,431</b>	<b>31</b>	<b>424.10</b>	<b>293.36</b>	<b>40,389.24</b>	<b>77,406.40</b>	<b>111,521.00</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					DWR	IEUA	MWD	Total	
<b>FY 2008-2009</b>									
<b>Residential Rebate Programs</b>									
Ultra Low Flush Toilets (ULFT)	0	0	0.00	0.00	0	0	0	0	0.0
High Efficiency Toilets (HET)	74	1,024,801	3.15	62.90	0	0	12,210	12,210	7.8
High Efficiency Clothes Washers (HECW)	155	1,393,991	4.28	64.17	0	0	17,050	17,050	8.0
Rotating Nozzles for Pop-up Spray Heads	20	26,068	0.08	0.40	0	0	80	80	2.0
Weather Based Irrigation Controllers (WBIC)	1	105,902	0.33	3.25	0	0	80	80	0.5
Water Wise Landscape (Turf Buy Back) (28,677 Sq. Ft.)	21	1,308,220	4.01	40.15	0	35,878	0	35,878	17.9
Synthetic Turf (8,348 Sq. Ft.)	13	380,829	1.17	11.69	0	2,504	2,504	5,009	8.6
<b>Subtotal</b>	<b>284</b>	<b>4,239,810</b>	<b>13</b>	<b>182.56</b>	<b>0</b>	<b>38,382</b>	<b>31,924</b>	<b>70,307</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET)</b>									
IEUA Multi-Family Direct Install Prog. (HET)	339	4,694,698	14.41	288.15	24,862	12,089	55,935	92,886	12.9
<b>Subtotal</b>	<b>339</b>	<b>4,694,698</b>	<b>14</b>	<b>288.15</b>	<b>24,862.26</b>	<b>12,089</b>	<b>55,935</b>	<b>92,886.00</b>	
<b>CII Save-A-Buck Rebate Program</b>									
ULFT Flushometer	0	0	0.00	0.00	0	0	0	0	0.0
ULFT Tank	0	0	0.00	0.00	0	0	0	0	0.0
High Efficiency Toilets (HET)	162	2,243,484	6.89	137.70	0	21,870	26,730	48,600	14.2
Waterless Urinals	0	0	0.00	0.00	0	0	0	0	0.0
Conductivity Controller	0	0	0	0.00	0	0	0	0	0.0
High Efficiency Clothes Washers	0	0	0.00	0.00	0	0	0	0	0.0
Water Brooms	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 (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
Pre-Rinse Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>162</b>	<b>2,243,484</b>	<b>7</b>	<b>137.70</b>	<b>0.00</b>	<b>21,870</b>	<b>26,730</b>	<b>48,600.00</b>	
<b>MWD Public Sector Program</b>									
High Efficiency Toilets (HET)	0	0	0.00	0.00	0	0	0	0	0.0
Waterless Urinals	0	0	0.00	0.00	0	0	0	0	0.0
Water Brooms	0	0	0.00	0.00	0	0	0	0	0.0
Weather Based Irrigation Controllers (WBIC)	51	10,120,606	31.06	310.59	0	0	84,498	84,498	5.5
Central Computer Irrigation Controllers (CCIC)	0	0	0.00	0.00	0	0	0	0	0.0
Synthetic Turf (Sq. Ft.)	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>51</b>	<b>10,120,606</b>	<b>31</b>	<b>310.59</b>	<b>0.00</b>	<b>0.00</b>	<b>84,497.82</b>	<b>84,497.82</b>	
<b>TOTAL</b>	<b>836</b>	<b>21,298,599</b>	<b>65</b>	<b>919.00</b>	<b>24,862.26</b>	<b>72,341.14</b>	<b>199,087.22</b>	<b>296,290.62</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					DWR	IEUA	MWD	Total	
<b>FY 2007-2008</b>									
<b>Residential Rebate Programs</b>									
Ultra Low Flush Toilets (ULFT)	27	333,443	1.02	20.47	0	0	1,620	1,620	3.7
High Efficiency Toilets (HET)	15	207,730	0.64	12.75	0	0	2,475	2,475	9.1
High Efficiency Clothes Washers (HECW)	236	2,122,463	6.51	97.70	0	0	25,960	25,960	9.3
Rotating Nozzles for Pop-up Spray Heads	143	186,387	0.57	2.86	0	0	572	572	2.3
Weather Based Irrigation Controllers (WBIC)	2	211,803	0.65	6.50	0	320	160	480	1.7
Water Wise Landscape (Turf Buy Back) (8,587 Sq. Ft.)	8	391,732	1.20	12.02	0	17,174	0	17,174	33.5
Synthetic Turf (9,919 Sq. Ft.)	11	452,496	1.39	13.89	0	2,976	2,976	5,951	10.0
<b>Subtotal</b>	<b>442</b>	<b>3,906,054</b>	<b>12</b>	<b>166.19</b>	<b>0</b>	<b>20,470</b>	<b>33,763</b>	<b>54,232</b>	<b>69.7</b>
<b>IEUA Multi-Family Direct Install Prog. (HET/ULFT)</b>									
IEUA Multi-Family Direct Install Prog. (HET/ULFT)	1,541	19,030,969	58.40	1,168.08	113,017	54,952	92,460	260,429	10.4
<b>Subtotal</b>	<b>1,541</b>	<b>19,030,969</b>	<b>58</b>	<b>1,168.08</b>	<b>113,016.94</b>	<b>54,952.06</b>	<b>92,460.00</b>	<b>260,429.00</b>	<b>10.4</b>
<b>CII Save-A-Buck Rebate Program</b>									
ULFT Flushometer	0	0	0.00	0.00	0	0	0	0	0.0
ULFT Tank	1	12,350	0.04	0.76	0	0	135	135	8.3
High Efficiency Toilets (HET)	472	6,536,571	20.06	401.20	0	63,720	77,880	141,600	16.5
Waterless Urinals	0	0	0.00	0.00	0	0	0	0	0.0
Conductivity Controller	0	0	0	0.00	0	0	0	0	0.0
High Efficiency Clothes Washers	31	278,798	0.86	12.83	0	8,990	4,030	13,020	35.6
Water Brooms	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 (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
<b>Subtotal</b>	<b>504</b>	<b>6,827,719</b>	<b>21</b>	<b>414.79</b>	<b>0.00</b>	<b>72,710.00</b>	<b>82,045.00</b>	<b>154,755.00</b>	<b>60.5</b>
<b>MWD Public Sector Program</b>									
High Efficiency Toilets (HET)	0	0	0.00	0.00	0	0	0	0	0.0
Waterless Urinals	0	0	0.00	0.00	0	0	0	0	0.0
Water Brooms	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
Central Computer Irrigation Controllers (CCIC)	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0</b>
<b>TOTAL</b>	<b>2,487</b>	<b>29,764,742</b>	<b>91</b>	<b>1,749.06</b>	<b>113,016.94</b>	<b>148,131.76</b>	<b>208,267.70</b>	<b>469,416.40</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					City	IEUA	MWD	Total	
<b>FY 2006-2007</b>									
<b>Residential Programs</b>									
Ultra Low Flush Toilets (ULFT)	56	633,194	1.94	38.86	0	0	3,360	3,360	4.0
High Efficiency Toilets (HET)	5	69,243	0.21	4.25	0	0	1,325	1,325	14.6
High Efficiency Clothes Washers (HECW)	238	6,560,945	20.13	302.02	0	0	26,180	26,180	3.0
Rotating Sprinkler Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
Weather Based Irrigation Controllers (WBIC) - Rebate	2	423,606	1.30	13.00	0	320	160	480	0.9
Weather Based Irrigation Controllers (WBIC) - Distribution	109	23,086,543	70.85	708.50	0	0	26,160	26,160	0.9
<b>Subtotal</b>	<b>410</b>	<b>30,773,531</b>	<b>92</b>	<b>1,066.64</b>	<b>0</b>	<b>320</b>	<b>53,825</b>	<b>54,145</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET/ULFT)</b>									
Multi-Family Toilet Program (HET/ULFT)	1,008	11,397,486	34.98	699.55	73,927	35,945	60,480	170,352	11.4
<b>Subtotal</b>	<b>1,008</b>	<b>11,397,486</b>	<b>35</b>	<b>699.55</b>	<b>73,926.72</b>	<b>35,945.28</b>	<b>60,480.00</b>	<b>170,352.00</b>	
<b>CII Save-A-Buck Rebate Program</b>									
ULFT Flushometer	0	0	0.00	0.00	0	0	0	0	0.0
ULFT Tank	0	0	0.00	0.00	0	0	0	0	0.0
High Efficiency Toilets (HET)	0	0	0.00	0.00	0	0	0	0	0.0
Zero Water Urinal	2	79,833	0.25	4.90	0	0	800	800	7.6
Conductivity Controller	1	209,848	0.644	3.22	0	0	625	625	2.3
High Efficiency Clothes Washers (HECW)	1	27,567	0.08	1.27	0	70	130	200	5.5
Water Brooms	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
<b>Subtotal</b>	<b>4</b>	<b>317,249</b>	<b>1</b>	<b>9.39</b>	<b>0.00</b>	<b>70.00</b>	<b>1,555.00</b>	<b>1,625.00</b>	
<b>TOTAL</b>	<b>1,422</b>	<b>42,488,266</b>	<b>128</b>	<b>1775.58</b>	<b>\$73,927</b>	<b>\$36,335</b>	<b>\$115,860</b>	<b>\$226,122</b>	

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

# City of Upland

## 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) <sup>(1)</sup>
					City	IEUA	MWD	Total	
<b>FY 2005-2006</b>									
<b>Residential Programs</b>									
City Event (ULFT)	1,248	14,111,173	43	866.11	0	8,112	74,880	82,992	4.5
IEUA Regional Event (ULFT)	0	0	0	0.00	0	0	0	0	0.0
IEUA Rebate Program (ULFT)	153	1,729,976	5	106.18	0	153	9,180	9,333	4.1
High Efficiency Clothes Washers	222	1,996,554	6.13	91.91	0	222	24,420	24,642	9.4
<b>Subtotal</b>	<b>1,623</b>	<b>17,837,703</b>	<b>55</b>	<b>1,064.20</b>	<b>0.00</b>	<b>8,487.00</b>	<b>108,480.00</b>	<b>116,967.00</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET/ULFT)</b>									
Multi-Family Program	930	10,515,538	32	645.42	0	97,650	55,800	153,450	11.1
<b>Subtotal</b>	<b>930</b>	<b>10,515,538</b>	<b>32</b>	<b>645.42</b>	<b>0.00</b>	<b>97,650.00</b>	<b>55,800.00</b>	<b>153,450.00</b>	<b>11.1</b>
<b>CII Save-A-Buck Rebate Program</b>									
ULFT's (Tank)	0	0	0	0.00	0	0	0	0	0.0
Conductivity Controller	0	0	0	0.00	0	0	0	0	0.0
High Efficiency Clothes Washers	11	98,928	0.30	4.55	0	0	2,750	2,750	21.2
Water Brooms	0	0	0.00	0.00	0	0	0	0	0.0
Pre-Rinse Spray Nozzles	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
<b>Subtotal</b>	<b>11</b>	<b>98,928</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2,750</b>	<b>2,750</b>	
<b>TOTAL</b>	<b>2,564</b>	<b>28,452,169</b>	<b>87</b>	<b>1714.18</b>	<b>0</b>	<b>\$106,137</b>	<b>\$167,030</b>	<b>\$273,167</b>	

<b>FY 2004-2005</b>									
<b>Residential Programs</b>									
City Event (ULFT)	0	0	0	0.00	0	0	0	0	0.0
IEUA Regional Event (ULFT)	11	124,377	0	7.63	0	121	660	781	4.8
IEUA Rebate Program (ULFT)	126	1,424,686	4	87.44	0	126	7,560	7,686	4.1
High Efficiency Clothes Washers	287	2,581,131	7.92	118.82	0	287	31,570	31,857	9.4
Pool Cover Rebates	14	239,148	0.73	3.67	0	742	0	742	2.4
<b>Subtotal</b>	<b>438</b>	<b>4,369,342</b>	<b>13</b>	<b>217.57</b>	<b>0.00</b>	<b>1,276.00</b>	<b>39,790.00</b>	<b>41,066.00</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET/ULFT)</b>									
Multi-Family Program	981	11,092,196	34	680.81	0	103,005	58,860	161,865	11.1
<b>Subtotal</b>	<b>981</b>	<b>11,092,196</b>	<b>34</b>	<b>680.81</b>	<b>0.00</b>	<b>103,005.00</b>	<b>58,860.00</b>	<b>161,865.00</b>	<b>11.1</b>
<b>CII Save-A-Buck Rebate Program</b>									
ULFT's (Tank)	0	0	0	0.00	0	0	0	0	0.0
Conductivity Controller	0	0	0	0.00	0	0	0	0	0.0
High Efficiency Clothes Washers	3	26,980	0.08	1.24	0	0	750	750	21.2
Water Brooms	0	0	0.00	0.00	0	0	0	0	0.0
Pre-Rinse Spray Nozzles	0	0	0.00	0.00	0	0	0	0	0.0
X-Ray Film Processor	0	0	0.00	0.00	0	0	0	0	0.0
<b>Subtotal</b>	<b>3</b>	<b>26,980</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>750</b>	<b>750</b>	
<b>TOTAL</b>	<b>1,422</b>	<b>15,488,519</b>	<b>48</b>	<b>899.62</b>	<b>0</b>	<b>104,281</b>	<b>99,400</b>	<b>203,681</b>	

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

# City of Upland

## 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) <sup>(1)</sup>	
					City	IEUA	MWD		Total
<b>FY 2003-2004</b>									
<b>Residential Programs</b>									
City Event (ULFT)	100	1,130,703	3	69.40	0	200	6,000	6,200	4.8
IEUA Regional Event (ULFT)	44	497,509	2	30.54	0	484	2,640	3,124	5.3
IEUA Rebate Program (ULFT)	227	2,566,696	8	157.54	0	227	13,620	13,847	4.6
High Efficiency Clothes Washers	244	2,194,411	6.73	101.02	0	244	26,840	27,084	5.7
Pool Cover Rebates	63	802,854	2.46	12.30	0	3,339	0	3,339	2
<b>Subtotal</b>	<b>678</b>	<b>7,192,173</b>	<b>22</b>	<b>370.79</b>	<b>0.00</b>	<b>4,494.00</b>	<b>49,100.00</b>	<b>53,594.00</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET/ULFT)</b>									
Multi-Family Program	116	1,311,615	4	80.50	0	3,944	6,960	10,904	4.2
<b>Subtotal</b>	<b>116</b>	<b>1,311,615</b>	<b>4</b>	<b>80.50</b>	<b>0</b>	<b>3,944</b>	<b>6,960</b>	<b>10,904</b>	
<b>CII Save-A-Buck Rebate Program</b>									
High Efficiency Clothes Washers	16	143,896	0.44	6.62	0	0	4,000	4,000	5
Water Brooms (Rebates)	17	849,754	2.61	13.04	0	1,700	1,700	3,400	3.1
Water Brooms (Distribution)	1	49,986	0.15	0.77	0	0	100	100	1.2
Pre-Rinse Spray Nozzles	0	0	0.00	0.00	0	0	0	0	0
<b>Subtotal</b>	<b>34</b>	<b>1,043,636</b>	<b>3</b>	<b>20</b>	<b>0</b>	<b>1,700</b>	<b>5,800</b>	<b>7,500</b>	
<b>TOTAL</b>	<b>828</b>	<b>9,547,424</b>	<b>29</b>	<b>471.72</b>	<b>0</b>	<b>\$10,138</b>	<b>\$61,860</b>	<b>\$71,998</b>	

<b>FY 2002-2003</b>									
<b>Residential Programs</b>									
City Event (ULFT)	100	1,130,703	3	69.40	0	200	6,000	6,200	4.8
IEUA Regional Event (ULFT)	39	440,974	1	27.07	0	429	2,340	2,769	5.5
IEUA Rebate Program (ULFT)	12	135,684	0	8.33	0	12	720	732	4.3
High Efficiency Clothes Washers	239	2,149,444	6.60	98.95	0	239	26,290	26,529	5.7
Pool Cover Rebates	20	1,246,986	3.83	19.15	0	1,060	0	1,060	2.1
<b>Subtotal</b>	<b>410</b>	<b>5,103,791</b>	<b>16</b>	<b>222.89</b>	<b>0.00</b>	<b>1,940.00</b>	<b>35,350.00</b>	<b>37,290.00</b>	
<b>IEUA Multi-Family Direct Install Prog. (HET/ULFT)</b>									
Multi-Family Program	83	938,483	3	57.60	0	2,822	4,980	7,802	4.1
<b>Subtotal</b>	<b>83</b>	<b>938,483</b>	<b>3</b>	<b>57.60</b>	<b>0</b>	<b>2,822</b>	<b>4,980</b>	<b>7,802</b>	
<b>CII Save-A-Buck Rebate Program</b>									
High Efficiency Clothes Washers	18	161,883	0.50	7.45	0	0	4,500	4,500	5.0
Water Brooms	11	549,841	1.69	8.44	0	1,100	1,100	2,200	3.1
Pre-Rinse Spray Nozzles	65	84,721	0.26	1.30	0	0	3,250	3,250	0.5
X-Ray Film Processor (MWD CII)	0	0	0.00	0.00	0	0	0	0	0
Restaurant Table Tent Program	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Subtotal</b>	<b>94</b>	<b>796,445</b>	<b>2</b>	<b>17.19</b>	<b>0.00</b>	<b>1,100.00</b>	<b>8,850.00</b>	<b>9,950.00</b>	
<b>TOTAL</b>	<b>587</b>	<b>6,838,720</b>	<b>21</b>	<b>297.68</b>	<b>0</b>	<b>5,862</b>	<b>49,180</b>	<b>55,042</b>	

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

FY 14/15

## Summary of Findings from Residential and Commercial Institutional and Industry Evaluations Phase III Landscape Evaluation Audit Program

SUB-AGENCY	CUSTOMER	SITE	ADDRESS	CITY	Average Irrigation Uniformity	Irrigated Acreage	Estimated Water Applied in CCF/HCF	Estimated Water Needs (Annually CCF/HCF)	Potential Savings AF/YR	Recommendations
City of Upland	Bricker, Suzanne	1	1444 W 11th St	Upland	No Test	0.07	127	81	0.11	Correct tilted sprinklers, repair leaking sprinklers, check microspray regularly
City of Upland	Ritchie, Kathleen	1	1284 Running Creek Lane	Upland	No Test	0.04	140	51	0.2	Repair leaking sprinklers, reduce overspray,
City of Upland	Gonzales, Dionicio	1	1036 Coronado Street	Upland	0.28	0.1	216	118	0.225	Reduce overspray, replace brass heads, change sprinkler layout in back yard,
City of Upland	Brotzman, Stephanie	1	5242 Sapphire Street	Alta Loma		0.2613	211	161	0.1148	Convert shrub irrigation to microspray, use only one type of sprinkler for each station, repair broken and leaking sprinklers, turn GPM down on bubblers, install pressure regulator,
City of Upland	Franz, Sue	1	675 W Clark Street	Upland	0.45	0.1454	462	199	0.6038	Repair leaking sprinklers, raise low sprinklers, use correct nozzles, adjust sprinklers to irrigate only turf material, use vans on curved areas, cut back plant material
City of Upland	Richmond, Karen	1	1404 W 19th Street	Upland		0.1273	351	157	0.4454	Correct tilted sprinklers, install pressure regulator, use only one type of sprinkler, cut back plant material, repair leaking sprinklers, repair leaking valves, use 180s instead of sidestrips, raise low sprinklers
City of Upland	Anderson, John	1	1223 Preston Court	Upland	0.41	0.06				Replace missing nozzles, clean clogged sprinklers, adjust sprinklers to only irrigate plant material, use correct nozzles
City of Upland	Hessabi, Najla	1	1390 Lemon Tree Circle	Upland	No Test	0.07	154	83	0.16	Improve DU, Standardize all stations to one sprinkler type, Use VANS on curved edges, fix any broken lines or heads.
City of Upland	Engles, Bruce	1	1639 Lakewood Ave	Upland	No Test	0.04	185	55	0.3	Improve DU, Standardize all stations to one sprinkler type, Use VANS on curved edges, fix any broken lines or heads.
City of Upland	Water Facilities Authority	1	1775 N Benson Avenue	Upland	0.28	0.0957	216	118	0.225	Repair torn drip line, reduce overspray, make sure sprinkler types are uniform,
City of Upland	Mountain Villas HOA	1	1286 Cassel Court	Upland	0.5	1.95	661	2406	9.65	Improve DU, Standardize all stations to one sprinkler type, Use VANS on curved edges, fix any broken lines or heads.

Table 1  
City of Upland  
Water Education/Community Outreach Program Results  
2002-2015 Period

Program	# of Schools	# of Students	# of Teachers	Funding
<b>FY 2014-15</b>				
National Theater for Children	4	1,852	72	\$ 4,060.00
Garden In Every School	N/A	N/A	N/A	
Shows That Teach	0	0	0	
<b>TOTAL</b>				
<b>FY 2013-14</b>				
National Theater for Children	5	1,315	58	\$ 5,075.00
Garden In Every School	1	80	2	\$ 992.92
<b>TOTAL</b>				
<b>FY 2012-13</b>				
National Theater for Children	2	835	35	\$ 1,892.00
Garden In Every School	N/A	N/A	N/A	
<b>TOTAL</b>	<b>2</b>	<b>835</b>	<b>35</b>	<b>\$ 1,892.00</b>
<b>FY 2011-12</b>				
National Theater for Children	1	65	3	\$ 982.69
Garden In Every School	1	3608	141	\$ 7,500.00
<b>TOTAL</b>	<b>2</b>	<b>3,673</b>	<b>144</b>	<b>\$ 8,482.69</b>
<b>FY 2010-11</b>				
National Theater for Children	1	770	38	\$ 982.69
Garden In Every School	N/A	N/A	N/A	
<b>TOTAL</b>	<b>1</b>	<b>770</b>	<b>38</b>	<b>\$ 982.69</b>
<b>FY 2009-10</b>				
National Theater for Children	2	730	31	\$ 1,948.00
Garden In Every School	1	736	32	\$ 3,000.00
<b>TOTAL</b>	<b>3</b>	<b>1,466</b>	<b>63</b>	<b>\$ 4,948.00</b>
<b>FY 2008-09</b>				
National Theater for Children	2	540	14	\$ 1,856.00
Garden In Every School	N/A	N/A	N/A	
<b>TOTAL</b>	<b>2</b>	<b>540</b>	<b>14</b>	<b>\$ 1,856.00</b>
<b>FY 2007-08</b>				
National Theater for Children	2	1,145	37	\$ 2,054.00
Garden In Every School	1	782	67	\$ 7,776.00
<b>TOTAL</b>	<b>3</b>	<b>1,927</b>	<b>104</b>	<b>\$ 9,830.00</b>

Table 1  
City of Upland  
Water Education/Community Outreach Program Results  
2002-2015 Period

<b>FY 2006-07</b>				
National Theater for Children	8	3,002	130	\$ 12,008.00
IEUA PDA Classes	N/A	N/A	N/A	
Garden In Every School	1	240	8	
<b>TOTAL</b>	<b>9</b>	<b>3,242</b>	<b>138</b>	<b>\$ 12,008.00</b>
<b>FY 2005-06</b>				
National Theater for Children	2	890	39	\$ 3,560.00
IEUA PDA Classes	N/A	N/A	N/A	
Garden In Every School	1	230	6	
<b>TOTAL</b>	<b>3</b>	<b>1,120</b>	<b>45</b>	<b>\$ 3,560.00</b>
<b>FY 2004-05</b>				
National Theater for Children	7	2,911	127	\$ 11,644.00
IEUA PDA Classes	N/A	N/A	N/A	
Garden In Every School	1	485	8	
<b>TOTAL</b>	<b>8</b>	<b>3,396</b>	<b>135</b>	<b>\$ 11,644.00</b>
<b>FY 2003-04</b>				
Think Earth! It's Magic	2	123	7	\$ 492.00
IEUA PDA Classes	N/A	N/A	N/A	
<b>TOTAL</b>	<b>2</b>	<b>123</b>	<b>7</b>	<b>\$ 492.00</b>
<b>FY 2002-03</b>				
Think Earth! It's Magic	2	1,327	58	\$ 5,308.00
IEUA PDA Classes	N/A	N/A	N/A	
<b>TOTAL</b>	<b>2</b>	<b>1,327</b>	<b>58</b>	<b>\$ 5,308.00</b>
<b>2002-2015 Totals</b>	<b>45</b>	<b>20951</b>	<b>899</b>	<b>\$ 71,131.30</b>



## **Appendix H**

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# **Public Participation and Plan Adoption**





**PUBLIC WORKS DEPARTMENT**  
1370 North Benson Avenue  
Upland, CA 91786-0460  
Telephone (909) 291-2930  
Facsimile (909) 291-2974

April 26, 2016

**Subject: Notice of the 2015 Urban Water Management Plan Update**

In accordance with the California Urban Water Management Planning Act, the Water Conservation Act of 2009, and other applicable laws, the City of Upland (City) is currently updating its 2015 Urban Water Management Plan (Plan).

The Plan is to be updated every five years, to evaluate the current and projected water supplies, and demands within the City's service area during normal, single-dry, and multiple-dry year periods, over the next 20-year planning horizon and beyond. The Plan update will also include information regarding water conservation efforts and water shortage contingency planning.

The City is providing this notice pursuant to Water Code section 10621(b), and encourages participation from you and the public in the process of updating the Plan. Its draft copy is currently scheduled to be available for review and comment by May 27, 2016, and will be available on the City's website and at the City's Public Works office, at the above address.

The City will hold a public hearing prior to adopting the 2015 Plan. The hearing is currently estimated to take place during the council meeting, on June 27, 2016, at 7:00 pm, in the City Hall, located at the below address.

Public Hearing Location: City of Upland  
460 N. Euclid Ave.  
Upland, CA 91786

Additional notice(s) regarding the hearing will be published in the local newspaper, in accordance with Government Code section 6066. The City is interested in your review and comments after the draft Plan is made available. Please provide any written comments to my attention, no later than June 17, 2016. Verbal comments are also encouraged during the hearing.

Thank you for your involvement in the update of the City Plan. Should you have any questions or concerns, please feel free to contact me or my staff, Harrison Nguyen, at the above telephone number.

Sincerely,

Rosemary Hoerning, PE, PLS & MPA  
Public Works Director