

Southern California Area Office WaterSmart Grants (based on original awarded amount)

Year	Recipient	Project Title	Description	Reclamation Contribution	Benefit	
2010	Eastern Municipal Water District	High Efficiency Clothes Washer Program	The purpose of the HE Clothes Washer Program is to reduce demand for imported water by retrofitting pre-2004 clothes washers with high efficiency clothes washers (HEW).	\$ 299,500	803 acre-feet	803
2010	Eastern Municipal Water District	Perris Water Filtration Plant Project	The Perris Water Filtration Plant Reject Recovery Facility Project (Project) will divert the reject stream from the sewer and treat the flow utilizing low pressure membrane filtration. Implementing the Project will result in a decrease in imported raw water consumption.	\$ 299,000	950 acre-feet	950
2010	West Basin Municipal Water District	Restroom Retrofit Program	The Program replaces water-wasting devices with High-Efficiency Toilets (HET), High-Efficiency Urinals (HEU), and Self-Closing Low-Flow Sensor Faucets (Faucets) to maximize water and energy savings. The District estimates the project will save 1,711 acre-feet per year.	\$ 296,250	1,711 acre-feet	1711
2011	City of Huntington Beach	Central Irrigation Control System Implementation	The proposed project consists of the installation of Central Control Systems in 45 public parks.	\$ 175,000	225 acre-feet	225
2011	Municipal Water District of Orange County	OC Smart Irrigation Timer Rebate Program	The proposed project is to implement a residential and commercial "Smart Irrigation Timer Rebate Program" in Orange County, CA. The rebate program format will facilitate the installation and verification of up to 800 commercial and 475 residential smart timers. The project is expected to save 560 acre-feet per year.	\$ 299,961	560 acre-feet	560
2011	Metropolitan Water District of Southern California	California Friendly Turf Replacement Program	The California Friendly Turf Replacement Program will transform approximately 2,000,000 square feet of irrigated turf to landscapes with climate appropriate plants, efficient irrigation, permeable surfaces. The program is expected to save 2,760 acre-feet per year.	\$ 1,000,000	2,760 acre-feet	2760
2011	City of Corona	Advanced Metering Infrastructure Project	The City of Corona will install 5,560 advanced water meters, resulting in real-time meter reading capabilities at residential, commercial and landscape sites. Once the project has been completed, water users will be able to monitor usage through a secure customer website so that adjustments can be made during peak periods and leaks and other water losses can be addressed as soon as possible. The project is expected to result in water savings of 592 acre-feet annually, which will allow the City to reduce its water imports. The City estimates that approximately 1,776 megawatt hours of energy per year will be saved the project as a result of reduced pumping needs	\$ 300,000	592 acre-feet	592

2012	City of Torrance	Storm Water Basin Recharge and Enhancement	The City of Torrance, will construct wetlands and infiltration areas, as well as installing new pumps and other water management improvements, at existing storm water basins. The project is intended to enhance those existing sites so that storm water can be filtered and used to recharge groundwater rather than flowing untreated to the ocean. The project is expected to result in water savings of 325 acre-feet annually through groundwater recharge. Wetlands constructed as part of the project will also serve as habitat for a number of endangered bird species.	\$ 300,000	325 acre-feet	325
2012	Inland Empire Utilities Agency	Regional Residential Landscape Retrofit Program	Inland Empire Utilities Agency will install high-efficiency, weather-based irrigation controllers and high efficiency sprinkler nozzles for 400 residential water users. Once completed, the improvements are expected to result in a reduction of 520 acre-feet of imported annually.	\$ 200,000	520 acre-feet	520
2012	Municipal Water District of Orange County	Water Efficient Site Certification and Smart Irrigation Rebate Program	The Municipal Water District of Orange County will provide rebates for installation of residential water efficiency improvements in over 700 households, including advanced irrigation timers and rotating nozzles. The project is expected to result in 138 acre-feet of water savings each year once completed, which will remain in regional storage reservoirs and ground water basins for other uses.	\$ 299,850	138 acre-feet	138
2013	Western Municipal Water District	High Efficiency Urinal Flush-Valve Program	The High Efficiency Urinal Flush-Valve Upgrade Program (Program) will help decrease water use in the commercial sector. The Program will reduce water use by approximately 123 acre-feet annually. The Program is consistent with Reclamation's goal of achieving water savings by reducing indoor water use and could help the local retail water agencies comply with California's legislative mandate to reduce urban water use in the commercial sector by 10 percent.	\$ 208,157	123 acre-feet	123
2014	Gateway Water Management	Regional Advanced Meter Infrastructure Program	The Gateway Water Management Authority, in southern California, will implement the Regional Advanced Meter Infrastructure (AMI) Program to improve regional water management by converting 6,263 meters to AMI smart meters, including 5,516 residential accounts, 730 Commercial/landscape accounts and 17 industrial accounts. The Gateway Regional cities and water district customers will have reliable, secure, and real time access to their water usage data through a specially designed AMI customer portal. The project is expected to result in annual water savings of 2,651 acre-feet and will reduce the use of State Water Project and Colorado River water resources.	\$ 1,000,000	2,651 acre-feet	2,651

2014	Irvine Ranch Water District	Stockdale Recovery Facilities Project	<p>Irvine Ranch Water District will install three ground water extraction wells, with piping and solar-powered flow meters, to recover up to 2,700 acre-feet of water annually from stored groundwater. The extracted water will be conveyed to nearby Pioneer and Cross Valley Canals and will be substituted for water the District imports from other sources, making the previously imported water available for other uses in the region or State.</p> <p>The recharge facilities to capture wet-weather runoff and flood flows already exist and agreements are already in place. The project will significantly enhance water supply reliability for the District by providing recovery of stored water to augment supplies during dry-years. The project implements adaptation strategies that were addressed in the Santa Ana Watershed Basin Study completed in 2013, which the District participated in as a stakeholder.</p>	\$ 1,000,000	2,700 acre-feet	2,700
2014	Metropolitan Water District of Southern California	Landscape Irrigation Efficiency Pilot Program	<p>The Landscape Irrigation Efficiency Pilot Program will offer enhanced incentives for efficient irrigation devices along with landscape training and irrigation system surveys to help transform the market for water efficient landscapes in Southern California. The Pilot Program will implement a strategy that addresses two significant market barriers: consumer knowledge and cost. The program will provide approximately 195 classes, 150 irrigation system surveys, 1,225 rebates of up to \$120 for residential smart controllers, and rebates of up to \$50 per station for 10,000 commercial controller stations. Participants will also be able to receive Metropolitan's current enhanced incentive of \$4 per efficient rotating nozzle. Over a ten year period, the Landscape Irrigation Efficiency Pilot Program will conserve an estimated 2,435 acre-feet (AF) of water, enough to serve nearly 500 homes. It will also save an estimated 0.6 to 1.8 million kWh per year by increasing energy efficiency in water management.</p>	\$ 300,000	2,435 acre-feet	2,435
2014	Metropolitan Water District of Southern California	Onsite Retrofit Pilot Program	<p>The Metropolitan Water District of Southern California will undertake an on-site retrofit incentive program to convert potable water irrigation water systems to recycled water irrigation systems. The retrofits will consist of improvements to existing irrigation systems in order to allow for the connection to the distribution system of an existing water recycling facility. The program is expected to result in annual water savings of 5,100 acre-feet through the offset of imported water with recycled water that is currently being discharged to the ocean. The District also estimates that the project will save an estimated 13,316,000 kilowatts per year by replacing imported water with recycled water. By completing these improvements, the District is implementing the municipal and industrial water conservation adaptation strategy identified in the 2012 WaterSMART Colorado River Basin Water Supply and Demand Study.</p>	\$ 700,000	5,100 acre-feet	5,100

2014	Metropolitan Water District of Southern California	California Friendly Turf Replacement Incentive Program	<p>The Metropolitan Water District of Southern California will also provide incentives under the California Friendly Turf Replacement Incentive Program to convert approximately 1.3 million Square feet of irrigated turf to water efficient landscapes with climate-appropriate plants, efficient irrigation, permeable surfaces to allow rainwater infiltration, and mulch to preserve soil moisture.</p> <p>This project is part of an ongoing effort and is expected to result in water savings of 186 acre feet per year. Water that is conserved through this project will contribute towards California's goal of achieving a 20 percent reduction in urban per capita potable water use by 2020 and it will help avoid future water supply shortages related to population growth, climate change, and drought, amongst other stressors.</p>	\$ 300,000	186 acre-feet	186
2014	City of Yucaipa	Wilson III Groundwater Basin Recharge Project	<p>The City of Yucaipa, California, in partnership with San Bernardino County Flood Control District, the San Bernardino Valley Municipal Water District, the Yucaipa Valley Water District and Inland Empire Resource Conservation District, will construct and expand groundwater recharge basins at two distinct sites. Recharge basins totaling 50 acres will be constructed at</p> <p>Site A, Wilson III Basin Project. The City will store and percolate State Water Project water at the Wilson Basin Project for groundwater recharge. Site B currently includes 30 acres of highly productive spreading basins for State Water Project water. The City will expand these basins to capture additional storm flows for aquifer recharge by modifying the basin inlets, outlets, spillways, and basin-to-basin drains. By reducing the peak flow rates to the downstream Wilson Creek channel, the recharge basin will also serve as a flood control facility and the recharge area will function as a passive park for the community with walking trails, boulders, and seat walls. Construction of Site A and expansion of Site B is expected to result in recharge of 1,450 acre feet of water annually which is currently lost to the ocean. The project will help reduce the City's reliance on imported water.</p>	\$ 300,000	1,450 acre-feet	1,450
2015	Moulton Niguel Water District	AMI Implementation Program Phase I	<p>The Moulton Niguel Water District in southern California will implement advanced meter infrastructure (AMI) with supporting software and will target customers with some of the highest water consumption rates within the District's service area. The goal of the program is to reduce real system losses and increase water use efficiency and conservation through the availability of near real-time data on water usage and daily water needs. Implementation of this phase (Phase I) would allow the District to test a full distribution system with AMI to provide both fine grain usage with weather data and corresponding actual daily water needs to customers. In order to fully maximize the capabilities and benefits of the AMI technology, a water loss management program will be integrated into the program. The project includes the installation of 2,669 residential meters and is expected to result in annual water savings of 1,650 acre-feet per year.</p>	\$ 300,000	1,650 acre-feet	

2015	City of Buenaventura	Be Water Wise Incentive Program	The City of San Buenaventura will implement a rebate program that encourages landscape alterations to conserve water. Through the program, the City will replace 500,000 square feet of turf and provide rebates to install 12,500 low flow irrigation nozzles, 200 smart controllers, and 200 high-efficiency clothes washers. This project is expected to result in annual water savings of 191 acre-feet, which will reduce demand in an area that is at risk of not meeting drinking water demands due to the ongoing drought.	\$ 300,000	191 acre-feet	
2015	City of Buenaventura	System Optimization/Improvements Phase I	The City of Buenaventura will also upgrade an existing pump and motor with a new high-efficiency pump and variable frequency drive motor. The City will also make improvements to the Saticoy Well #2 and will install 26 smart water meters that will be connected to the City's Supervisory Control and Data Acquisitions system. Implementing these improvements will allow the City to better account for its water production and losses. The System Optimization Improvements Phase I will result in quantifiable and sustained water savings as well as improved water management by conserving and making use of a new water supply averaging 517 AFY.	\$ 229,631	\$ 517	
2015	Mojave Water Agency	Commercial, Industrial Institutional Turf Replacement Program	The Mojave Water Agency in southern California will expand an existing "Cash for Grass" turf replacement program, which targets removal of turf from residential and small commercial landscapes. This project will replace 54 acres of turf with drought tolerant and desert adaptive plants, resulting in an expected annual water savings of 400 acre-feet. Conserved water will be used to meet existing needs within the Agency, which has had its water allocations reduced to only 10 percent of its contracted supply as a result of the ongoing drought.	\$ 300,000	400 acre-feet	
2015	Municipal Water District of Orange County	Comprehensive Landscape Water Use Efficiency Program	The Municipal Water District of Orange County will continue implementing a comprehensive landscape improvement program targeting residential and commercial properties throughout Orange County. The project includes: providing rebates to remove of 9.7 acres of non-functional turf grass and replacing it with California-friendly landscape; upgrading 980 irrigation timers to smart water application irrigation controllers; converting 127,000 high volume conventional spray irrigation heads to low-precipitation- rate irrigation equipment (rotating nozzles and drip); and offsetting some potable uses with alternative sustainable supplies. The project is expected to result in annual water savings of 1,160 acre-feet.	\$ 299,956	1,160 acre-feet	

2015	Upper San Gabriel Valley Municipal Water District	Large Landscape and Retrofit Program	The Upper San Gabriel Valley Municipal Water District in Monrovia, California, will complete phase three of the District's on-going, three-phased "Large Landscape Survey and Retrofit Program." In this final phase, the District will identify and monitor large landscape sites and install retrofits/improvements at identified landscape sites. Proposed retrofits/improvements include digging out and replacing broken pipes and broken sprinkler heads and installing water based irrigation controllers, moisture sensor systems, and high efficiency nozzles. The project is expected to result in annual water savings of 763 acre-feet, which will reduce the District's reliance on imported water and will remain in the Colorado River and Bay-Delta system. The District is currently 100 percent reliant on imported water supplies, which are increasingly threatened by current drought conditions. This project helps to reduce reliance on these limited imported water supplies.	\$ 1,000,000	763 acre-feet	
2015	West Basin Municipal Water District	Regional Landscape Water Use Efficiency Project	The West Basin Municipal Water District in Carson, California, will continue to implement an ongoing water conservation rebate program, which provides a financial incentive to replace lawn with water- efficient landscaping. This project is expected to result in the replacement of approximately 450,000 square feet of grass turf with water efficient landscaping alternatives, which is expected to result in an annual water savings of 60 acre-feet, reducing the District's reliance on imported water.	\$ 300,000	60 acre-feet	
2015	Western Municipal Water District	Arlington Basin Water Quality Improvement Project	The Western Municipal Water District in Riverside, California, will construct a recharge basin with a monitoring well, an extraction well, and a raw water pipeline connecting the extraction well with the Arlington Desalter, in order to expand potable water production. As a result, the project will develop local groundwater sources for use in the District's service area thereby reducing reliance on imported water. Water supplies and groundwater storage across the Santa Ana River Watershed have been depleted to historic low levels and several basins are threatened by overdraft conditions due to reduced recharge as a result of the ongoing drought conditions. The project is expected to result in annual water savings of 1,800 acre-feet annually by capturing storm water flows and developing local sources. The project implements adaptation strategies that were identified in the 2013 WaterSMART Santa Ana River Watershed Basin Study.	\$ 1,000,000	1,800 acre-feet	
2015	City of Yucaipa	Wildwood Creek Basin 4 Groundwater Recharge and Water Management	The City of Yucaipa will construct a 25 acre-foot retention basin along the Wildwood Creek to capture storm water runoff and increase groundwater recharge. Recharged stormwater will increase local groundwater supplies and will reduce the City's reliance on imported water supplies. The project is expected to recharge 250 acre-feet of water per year.	\$ 227,000	250 acre-feet	

2016	City of Big Bear Lake DWP	City of Big Bear Lake Advanced Metering Infrastructure Project Funding Group I	The City of Big Bear Lake, California Department of Water and Power will implement an Advanced Metering Infrastructure (AMI) program, involving the installation of 5,000 new water meters and radios for residential and commercial water users. The AMI program will also feature new smart meter software, allowing the Department and water users access to real-time consumption data. The Program will enable the Department and water users to identify waste and leaks in a timely manner, conserving 33 acre-feet, annually. Conserved water will be made available to meet growing water user demand. The program will also provide the Department 96,070 kilowatt hours of energy savings due to reduced water pumping and treatment. Note that the project implements adaptation strategies that were identified in the completed WaterSMART Santa Ana River Basin Study.	\$ 300,000	33 acre-feet	33
2016	City of Big Bear Lake DWP	City of Big Bear Lake 12-inch Big Bear Boulevard Replacement Pipeline Project Group I	The City of Big Bear Lake, California Department of Water and Power will replace 4,000 feet of an existing 70-year-old, unlined riveted steel pipeline with PVC. The project will reduce leakage, conserving 17 acre-feet, annually. Conserved water will be made available to meet growing water user demand. The project will provide the Department 120,655 kilowatt hours of annual energy savings due to reduced pumping demand. Note that the project implements adaptation strategies that were identified in the completed WaterSMART Santa Ana River Basin Study.	\$ 300,000	17 acre-feet	17
2016	Mojave Water Agency	Commercial, Industrial and Institutional Turf Replacement Program	The Mojave Water Agency of Apple Valley, California, will expand its turf replacement program. The program will provide incentives to replace up to 54 acres of turf with water efficient landscaping, conserving about 400 acre-feet of water and over 2.2 million kilowatt hours of energy per year from reduced pumping requirements. The conserved water will go to beneficial uses within the Mojave Water Agency.	\$ 300,000	400 acre-feet	400
2016	West Valley Water District	Water Use Efficiency In Disadvantaged Communities	The West Valley Water District, in Rialto, California will expand their turf replacement program. They are targeting up to 65 service connections and 120,000 square feet of turf removal. The project will save an estimated 16 acre-feet of water annually. Note that the project implements adaptation strategies that were identified in the completed WaterSMART Santa Ana River Basin Study, in which the District was a stakeholder.	\$ 300,000	16 acre-feet	16
2016	Municipal Water District of Orange County	Comprehensive Landscape Water Use Efficiency Program - Phase II	The Municipal Water District of Orange County, California will continue implementing a comprehensive landscape improvement program targeting residential and commercial properties throughout Orange County. The project includes providing rebates to remove 9.7 acres of non-functional turf grass and replacing it with California-friendly landscape; upgrading 980 irrigation timers to smart water application irrigation controllers; converting 127,000 high volume conventional spray irrigation heads to low-precipitation rate irrigation equipment (rotating nozzles and drip); and offsetting some potable uses with alternative sustainable supplies. The project is expected to result in annual water savings of 1,151 acre-feet, which will be retained in regional storage reservoirs and the groundwater basin for future use.	\$ 299,934	1,151 acre-feet	1151

2016	Laguna Beach County Water District	Laguna Beach County Water District's Advanced Metering Infrastructure To Enhance Water And Energy Efficiency Project	Laguna Beach County Water District of Laguna Beach, California will implement an Advanced Metering Infrastructure Project as a part of their overarching goal of improving water efficiency and water supply reliability. The project will result in a water savings of 400 acre-feet through the replacement of 8,633 out-dated meters with advanced meters which will allow for system leaks to be addressed rapidly and the implementation of a tiered water pricing system. The conserved water will be used to decrease the District's demand for imported water. Note that the project implements adaptation strategies that were identified in the completed WaterSMART Colorado River Basin Study.	\$ 300,000	400 acre-feet	400
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