Southern California Area Office CALFED Bay-Delta Grants (based on original awarded amount)

Year	Recipient	Project Title	Description	Reclamation Contribution	Water Savings	
2007	Municipal Water District of Orange County	Residential and Commercial Landscape Survey Program	The Municipal Water District of Orange County proposes to conduct landscape surveys on sites consisting of both commercial and residential landscapes. The surveys will include a review of Irrigation Controller Scheduling; Irrigation System Evaluation including catch can test for distribution uniformity and recommendations for repair.	$ 91,775		
2007	San Diego County Water Authority	Smart Landscape Grant Program	This project provides $2,500/acre up to $5,000 for commercial and multi-family sites to upgrade irrigation hardware.	$ 298,701	209 acre-feet	209
2007	West Basin Municipal Water District	The Green Program – Residential Landscape Surveys and Smart Irrigation Controller Exchange Program	The District will implement the “Green Garden Program”, a Residential Landscape Survey and Smart Irrigation Controller Exchange Program to customers within its service area.	$ 231,000	67 acre-feet	67
2008	Eastern Municipal Water District	Public School Retrofit Program	The District proposes a Public School Retrofit Program. The goal is to enable public schools within EMWD’s service area to utilize rebate programs to the fullest capacity by providing necessary funding for the installation of retrofit devices and assistance in processing paperwork.	$ 300,000	79 acre-feet	79
2008	Municipal Water District of Orange County	Smart Timer Rebate Program	The District proposes to implement a residential and commercial Smart Timer Rebate Program. A smart timer is an irrigation controller/timer that uses real time weather data to automatically adjust irrigation run times according to current weather conditions; plant types on each irrigation valve, the sol type on each irrigation valve, and the irrigation equipment in the ground. The program is expected to save 1, 210 acre-feet per year.	$ 299,919	1,210 acre-feet	1210
2009	City of Corona	Residential Weather Based Irrigation Controller Program	The City proposes to install 290 WeatherTrak Weather Based Irrigation Controllers (WBIC) to residential homes.	$ 125,000	133 acre-feet	133
2009	Las Virgenes Municipal Water District	Real-Time Detection/Response System	The District proposed to monitor hourly water use in large residential communities, as well as generate automatic voice and email notices of leaks and over-irrigation to customers along with guidance on how to correct the problem, monitoring of post-contact water use, and follow-up with reminders to non-responding residents.	$ 79,722	273 acre-feet	273
2009	Long Beach Water Department	Weather Based Irrigation Controllers	The Department is proposing to install 50 weather based irrigation controllers (WBIC) in the public sector over a 24 month period to promote water efficient irrigation techniques. Long Beach’s goal is to reduce irrigation water use in the public sector by installing water conserving devices that reduce urban run-off as well as the amount of water used on landscape.	$ 88,000	1,125 acre feet	1125
2009	Long Beach Water Department	Hydrants	The Department is proposing to install hydrants to the existing recycled water system at strategic locations so that City street-sweepers, sewer-line cleaners, and island median irrigators can fill their trucks with recycled water rather than use potable supplies. The total Project will include the installation of 36 hydrants approximately 1 mile apart.	$ 85,191	300 acre-feet	300

2009	Municipal Water District of Orange County	Hotel Water Smart Program-Expansion	The District has developed a program to target water savings in the hotel/motel commercial sector in Orange County. The project includes: 1) project administration, 2) outreach, 3) water surveys, 4) additional incentives 5) customer follow-up and 6) landscape data basing.	$ 415,925	565 acre-feet	565
2009	Municipal Water District of Orange County	Industrial Process Water Use Program-Phase II	The District has developed a program to help industrial businesses reduce their water use and associated wastewater flows. The program targets food processing, textile manufacturing, metal plating, and electronics manufacturing. The program offers two levels of engineering surveys.	$ 371,650	490 acre-feet	490
2009	Rancho California Water District	Residential One-stop Installation Program	The District is proposing to develop the Residential One-stop Installation Program that will target the top 500 high water use residential customers in the Rancho California Water District (District) service area. The program will offer these customers an on-site evaluation to identify indoor and outdoor sources of water waste.	$ 260,440	300 acre-feet	300
2010	City of Anaheim	Centralized Weather-Based Controllers and Rotary Nozzles Project	The City is proposing to replace 70 irrigation system controllers and 40,252 conventional sprinkler heads with modern, centralized weather-based controllers and rotary nozzles. The project is estimated to save 1,286 acre-feet per year.	$ 100,000	1,286 acre-feet	1286
2011	Inland Empire Utilities Agency	Turner Basin Recharge Project	The Turner Basin recharge project intends to increase capacity by 2,400 acre-feet per year over the 20 year life of the project.	$ 406,712	2,400 acre-feet	2400
2011	City of Los Angeles	CII Landscape Incentive Program	The CII landscape incentive program intends to provide financial incentives for the replacement of turf irrigated with high water use irrigation systems with drought tolerant plant palates with low flow irrigation systems. This project would conserve approximately 229 acre-feet per year over the 15 year life of the project.	$ 1,000,000	229 acre-feet	229
2012	Metropolitan Water District	Sprinkler Nozzle Incentive Program	The Sprinkler Nozzle Incentive Program (Program) will replace an anticipated 500,000 high-water use nozzles with efficiency nozzles and will result in an estimated water savings of 10,000 acre-feet (AF) over a five-year period throughout MWD's service area. The Program will provide long term benefits to the Bay-Delta and in particular help achieve the CALFED objective for water supply reliability. The Program will reduce irrecoverable losses due to improvements in landscape irrigation efficiency. This water savings will reduce reliance on imported water supplies to meet expected future demands.	$ 500,000	10,000 acre-feet	10000
2012	Rancho California Water District	Enhanced Agricultural Irrigation Efficiency Program	The Program will save an estimated 276 acre-feet (AF) per year of water. The program will improve irrigation efficiency at 24 sites will enable on-farm water use efficiency and conservation improvements at 1,724 agricultural properties. Reduced local pumping will result in 414,000 kilowatt hours per year being conserved. In the future, applying the Program's technology to a greater percentage of the District's agricultural customers will result in an estimated 276 AF per year of water savings, which can be used for high priority demands including ecological needs.	$ 174,192	276 acre-feet	276

2013	Metropolitan Water District	High Efficiency Clothes Washer Incentive Program	The Program will provide rebates for 20,000 HECW's, which is enough water to serve nearly 18,000 homes for a year. Residential rebates have steadily declined over the past 5 years with Metropolitan's existing incentive program, however, the Program will increase participation through an enhanced incentive.	$ 498,600	656 acre-feet	656
2014	Metropolitan Water District	Proposed Project California Friendly Turf Replacement Incentive Program – Phase 2A	The program will offer residential and commercial customers an incentive to replace thirsty turf landscapes with climate appropriate landscapes. The project expects to save 46 gallons per square foot or 180 acre-feet per year (1,800 acre-feet over ten years), which is enough water to serve nearly 360 homes for a year. This program helps achieve four goals of the Bay-Delta Restoration Fund: reduce irrevocable losses; achieve multiple statewide benefits; preserve local flexibility; and build on existing water use efficiency programs.	$ 300,000	180 acre-feet	180
2014	Rancho California Water District	Advanced Metering Infrastructure to Enhance Water Efficiency and Energy Efficiency Project	The Advanced Metering Infrastructure to Enhance Water Use Efficiency and Energy Efficiency Project (Project) includes 1) an upgrade of 20,165 Encoder Radio Transmitter (ERT) devices, which provide for "drive-by" collection of water consumption data, to an Advanced Metering Infrastructure (AMI) Itron 100W Choice Connect Network System that will automatically collect and store hourly consumption data, and 2) deployment of a web-based application (Customer Portal) through which customers can access their accounts to view both real-time flow information and 13 months of historical usage data. The upgrade to a fully automated AMI system leads to wide-ranging efficiency improvements resulting in water savings of 1,344.91 acre-feet per year (AFY.,	$ 300,000	1,345 acre-feet	1345
2015	Elsinore Valley Municipal Water District	Advanced Metering Infrastructure Project	The District proposes to implement an Advanced Metering Infrastructure (AMI) system by installing and/or retrofitting 33,700 traditional meters for customers located throughout the District. This project represents the third and final phase of a multi-phased program to implement AMI throughout the District's 42,000+ connections. During the first phase of the project in 2014, the District installed the necessary AMI network infrastructure including a network control computer and AMI software; 78 solar-powered Data Collection Units (DCUs); Intermac handheld PCs; training for staff; and all licensing fees, web hosting and customer portal software. Also during this first phase, EVMWD installed and/or retrofitted an initial 3,000 meters within the District's most disadvantaged areas. In the second phase, the District focused exclusively on installation and/or retrofit of meter transmission units (MTUs) for approximately 5,200 connections within more disadvantaged communities. EVMWD estimates a total of 1,271 AFY and 25,420 acre-feet over the 20 year life of the project of water savings as a result of the AMI project.	$ 750,000	1,271 acre-feet	1271

2015	Eastern Municipal Water District	Outdoor School Water Management Program	Program (School Program). The goal of this program is to assist public schools within EMWD's service area to replace nonfunctional turf with climate appropriate landscapes and the installation of efficient irrigation devices. Targeted devices for installation include smart controllers and high efficiency nozzles; nonfunctional turf will be replaced with low water use plants and gardens. This program is estimated to have an annual savings of 126.58 AF, with a lifetime savings of 965.8 AFY for thirty schools targeted in the program.	$ 438,640	966 acre-feet	966
2015	Inland Empire Utilities Agency	Groundwater Recharge Yield Enhancement Conjunctiv	The San Sevaine and the Lower Day Basins are owned by the San Bernardino County Flood Control District (SBCFCD). The Basins were originally constructed for flood control mitigation to attenuate peak storm flows, but are now operated as multipurpose basins under a four party agreement between SBCFCD, IEUA, Chino Basin Watermaster (CBWM), and the Chino Basin Water Conservation District (CBWCD). The four parties previously invested in improvements of the Basins to allow them to be used for groundwater recharge. The Basins were modified to allow the capture and recharge of stormwater, supplemental imported water and recycled water in a conjunctive use program. IEUA performs the actual operation and maintenance of the Basins for recharge purposes. Through the recent operations data collection of the initial improvement projects, IEUA and CBWM have identified several possible opportunities to further enhance and optimize the use of the facilities for additional groundwater recharge. This grant application covers the following two groundwater recharge improvement projects:The Recycled Water annual savings is 4,100 and the Recycled Water lifetime saving is 123,000AF. The Storm water annual savings is 1,431AF, and the Storm water lifetime saving is 42,930. The Storm Water annual savings is 1,431acre-feet. The total lifetime savings (165,930 AF). 165,930/30 is 5,531 AF.	$ 750,000	5.531 acre-feet	5531
2016	Rancho California Water District	Agricultural Crop Conversion Program	Rancho California Water District (RCWD/District) intends to implement an Agricultural Crop Conversion Program (Conversion Program) through which financial incentives will be provided to farmers for the replacement of high water use crops with those that require less irrigation water.and to sustain the limited local water supply. . Conversion Program implementation includes both pre-conversion and post-conversion audits, which will be conducted to establish baseline water use and to quantify expected water savings. Meeting water savings expectations will be encouraged by the District through modifications made to water allocations for Conversion Program participants (allocations will be adjusted downward to reflect the water needs of the crop to which the farm was converted). Actual water savings will be quantified through monitoring of water consumption at each farm implementing crop conversion activities, and will take place annually over a 10-year period to ensure long-term water savings. For Conversion Prnd 25,420 acre-feet over the 20 year life of the project of water savings as a result of the AMI project. he Recycled Water lifetime saving is 123,000AF. The Storm water annual savings is 1,431AF, and	$ 1,000,000	396 acre-feet	396

2017/2018	Santa Margarita Water District	Water Recycling Tertiary Expansion to Enhance Water Use Efficiency Project	Santa Margarita Water District (SMWD/District) is proposing the 3A Water Recycling Plant (WRP) Tertiary Expansion to Enhance Water Use Efficiency Project (Project) to provide quantifiable and sustained water savings and improved water management. 82% of the District's water supply is purchased surface water imported by the Metropolitan Water District of Southern California (MWD) via the Municipal Water District of Orange County (MWDOC). MWD's imported water sources are the Colorado River and the State Water Project (SWP), which draws water from the San Francisco-San Joaquin Bay Delta (Bay-Delta). Approximately 13% of the District's total water supply is from the Bay-Delta. The Project includes expanding the existing 3A WRP to provide up to 3,000 acre-feet per year (AFY) of recycled water and energy savings.	$ 749,960	$ 3,000	3000
2018/2019	Eastern Municipal Water District	Agricultural Water Data Project	The Project contributes to accomplishing the goals of the funding opportunity announcement (FOA) As a result of implementation the project that is estimated to directly reduce water demands and conserve at least 3,000 acre-feet per year (10% of the average annual 2015-16 use of 30,000 acre-feet) by utilizing the advanced interactive software created by the AWDP to facilitate ordering, flow monitoring, and budgeting.	$ 184,721	$ 3,000	300
2018/2019	Western Municipal Water District	Riverside Service Area Meter Replacement and Retrofit	The Program will result in improved water management by conserving and making use of a new water. The project is well aligned with the Bureau of Reclamation's program objectives on projects emphasizing water use efficiency and conservation activities that result in benefits for the California-Bay Delta. The largest source of water for Western is imported water from Metropolitan, which makes up approximately 70 percent of Western's total supply. Of those supplies, about three quarters comes from the State Water Project whose source is the Bay-Delta. The proposed project will help Western increase water use efficiency in the Riverside Service Area through the installation of AMI. Through the implementation of this project, Western anticipates saving 1,010 acre-feet (AF) of water each year, thereby reducing impacts to the California Bay-Delta.	$ 750,000	$ 1,010	1010
Total Savings				**$ 10,550,148**		**33597**