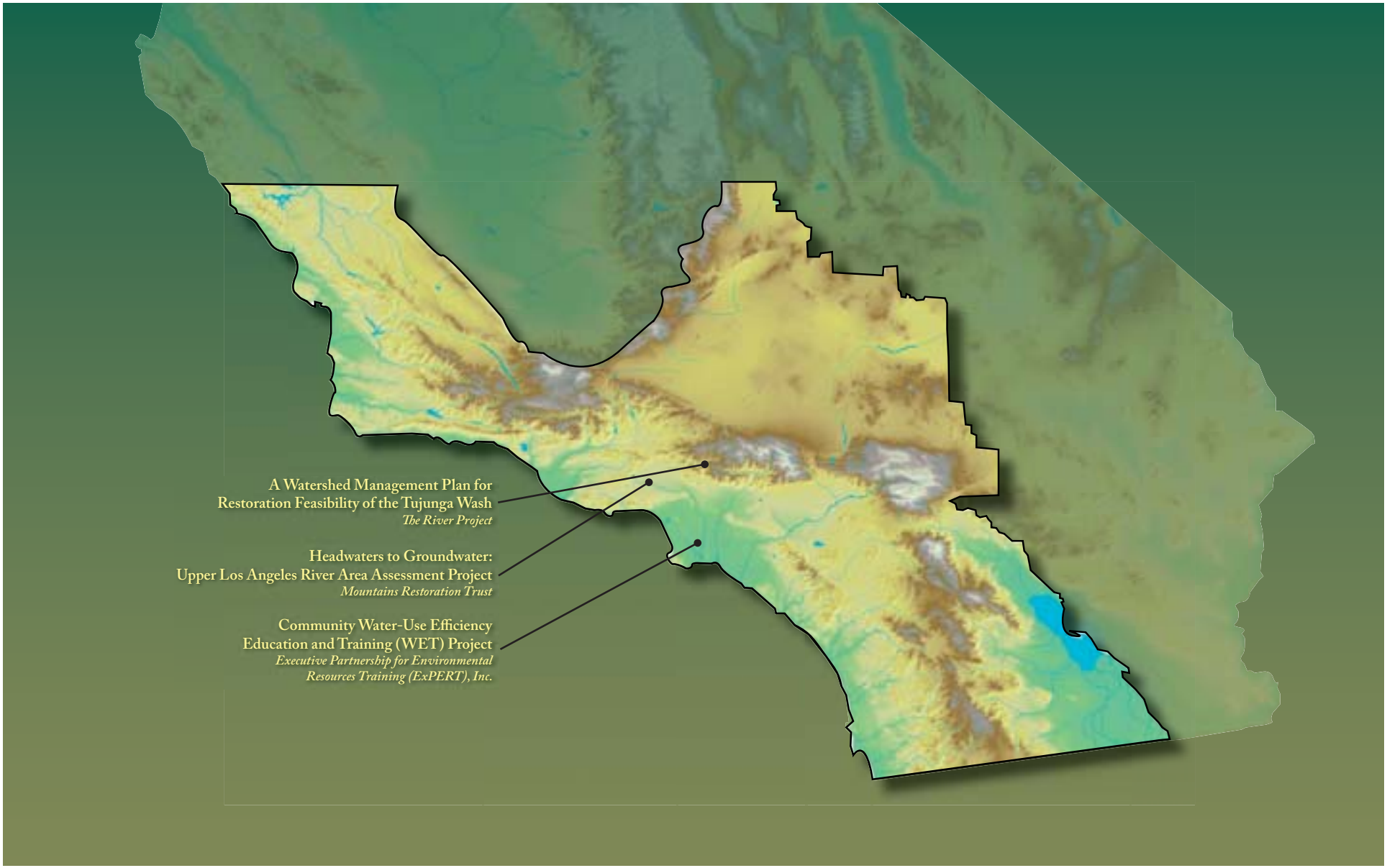
A Watershed Management Plan for
Restoration Feasibility of the Tujunga Wash
The River Project
Headwaters to Groundwater:
Upper Los Angeles River Area Assessment Project
Mountains Restoration Trust
Community Water-Use Efficiency
Education and Training (WET) Project
Executive Partnership for Environmental
Resources Training (ExPERT), Inc.

Alluvial fan scrub in Big Tujunga Wash.

Award Amount
$650,000

Watershed
Los Angeles River Watershed

County
Los Angeles County

CALFED Region
Southern California Region

Legislative Districts
US Congress: 26, 27, and 29; State Assembly: 38, 39, 42, and 43; State Senate: 17, 20, and 23

Purpose

Develop a stakeholder-driven comprehensive watershed management plan to improve water management for beneficial uses and to restore ecological health

Project Goals

- Develop a watershed assessment and watershed management plan to reduce dependence on imported water supplies through improved water quality and ecosystem health
- Implement a broad-based watershed community education and outreach program
- Improve collaboration among agencies and organizations
- Improve stakeholder capacity to be fully involved in implementing watershed management

Benefits to the Bay-Delta System

The Tujunga Wash watershed is located in the Los Angeles area, a region that imports large amounts of Bay-Delta water and will benefit from improved local water supply. This project develops a watershed management plan intended to reduce water supply demand from the Bay-Delta system through the capture and conservation of an annual average of up to 5,000 acre-feet of stormwater in the Tujunga Wash watershed. This project also quantifies local water quality improvements by demonstrating the potential to eliminate pollutant loading from runoff to the Los Angeles River. The project's outreach and education component enables local citizens to participate directly in development of the plan and in making informed decisions for enhancing water quality, water supply, and habitat. When complete, the watershed management plan may act as a template for regional implementation of similar efforts that could produce a large cumulative reduction in dependence on Bay-Delta water supplies.

Project Overview

The Tujunga Wash is the largest subwatershed of the upper Los Angeles River watershed, located in the northeast San Fernando Valley. The 225-square-mile Tujunga Wash watershed comprises remote open space areas of the Angeles National Forest and highly urbanized lands of the City of Los Angeles. Although Los Angeles averages only 15 inches of annual rainfall, the upper Los Angeles River watershed receives some of the most concentrated rainfall in the United States (as much as 26 inches in 24 hours). Under current conditions, as much as 80% of stormwater from the Los Angeles River watershed is discharged into the ocean, carrying contaminant loads from urbanized land use. The area's largely impervious, heavily urbanized lower watershed is located above the San Fernando groundwater basin, which is not recharging at its full capacity. The depleted basin currently provides 15% of local drinking water supplies to Los Angeles. The Tujunga Wash provides as much as 20% of the total flow of the Los Angeles River, and 100% of the water to the San Fernando groundwater basin. The Tujunga Wash watershed provides significant opportunities to maximize recharge, optimize reuse, improve water quality, and reduce reliance on imported water from the Bay-Delta system.

This project develops a comprehensive Watershed Management Plan for the Tujunga Wash to restore ecological health and improve water management for beneficial uses in the watershed. The plan identifies multiple benefits for the watershed ranging from enhanced regional water supply and quality to restoration of Tujunga Wash.

An ongoing education and outreach program is generating stakeholder interest in participating in the development of the watershed management plan. The project Planning Team, Stakeholder Steering Committee and Technical Advisory Committee are identifying goals and objectives for the watershed, compiling a GIS inventory of existing data, developing a watershed assessment, and identifying criteria to evaluate the ongoing success of the plan. Several interconnected models will be developed to assess hydrologic conditions and evaluate the potential benefits of proposed alternatives. When complete, the plan will identify actions, programs, and projects to improve the healthy functioning of the watershed; guide agencies and stakeholders in implementing the plan; and recommend project implementation priorities for the next 20 years.

Tujunga Wash in the lower watershed.

Contact Information

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www.tujungawash.org

Community Water-Use Efficiency Education and Training (WET) Project

Executive Partnership for Environmental Resources Training (ExPERT), Inc.

Project participants review system water audit and sonic leak detection data.

Award Amount
$754,600

Watershed
Compton Creek Watershed

County
Los Angeles County

CALFED Region
Southern California Region

Legislative Districts
US Congress: 35 and 37; State Assembly: 51, 52, 53, and 55; State Senate: 25, 27, and 28

Purpose

Educate local and regional community members and stakeholders on multiple watershed issues while promoting water-use efficiency and water conservation

Project Goals

- Build community watershed management capacity
- Identify and pursue opportunities to achieve environmental justice objectives
- Develop and deliver a comprehensive watershed awareness education and outreach campaign
- Recruit and train residents of the watershed to provide sustainable leadership on issues of resource management
- Reduce demands on water supply from the Bay-Delta

Benefits to the Bay-Delta System

The WET project focuses on raising awareness of environmental justice, watershed, and water-use efficiency issues in the Compton Creek watershed, a low-income, minority neighborhood of Los Angeles. This project addresses environmental justice goals of the CALFED Program by empowering an underprivileged community to take action toward improving its environment by facilitating the formation of sustainable community groups. Implementation of water conservation and reuse measures is a significant benefit in Southern California, a region that imports large amounts of Bay-Delta water. This project addresses water-use efficiency and water quality concerns by educating citizens about and implementing several water-use improvements, with resulting benefits both locally and to other users of limited water from the Delta. Through this project, 27,701,500 gallons of potable water per year will be conserved, thus reducing the amount of water exported from the Bay-Delta.

Project Overview

The Compton Creek watershed is a 42-mile-long tributary to the Los Angeles River located in the highly urbanized, low-income Southern California communities of Compton, Lynwood, South Gate, Watts/Willowbrook, and Harbor Gateway. Compton Creek is a highly polluted stream, and is listed in the *Clean Water Act 303(d)* list of impaired waters for trash, copper, lead, pH and coliform bacteria. Local residents rely on water imported from the Bay-Delta system by the Metropolitan Water District for their municipal needs.

The Community Water-Use Efficiency Education and Training (WET) Project seeks to increase local learning and awareness across multiple watershed issues, coordinate collaboration at the local and regional levels, and assist residents and businesses to develop and implement local watershed management actions. Integral to this project is an extensive outreach program that broadens the community's understanding of how the ecological health of their watershed affects the quality of their lives. This outreach program fosters substantive discussion of water resources management and environmental justice issues, and increases the level of community actions to change patterns of water use. Recruitment and training of local "community watershed ambassadors" ensures sustainable leadership within the community on issues related to the management of watershed resources for the long term.

The WET project provides several measures for eliminating unnecessary water loss with simple implementations. The measures include conducting 200 residential water-use surveys, 200 residential plumbing retrofits, 1,000 residential or small commercial meter reads/retrofits, and 2,000 ultra low flush toilet retrofits, as well as performing leak detection on 50–70 miles of main. The WET project anticipates a total potable water savings of more than 27 million gallons per year.

Dismantled cast-off toilets from residential retrofits are recycled for roadbed construction to reduce landfill waste.

Contact Information

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A view of the urbanized portion of the Los Angeles River watershed from the Santa Susana Hills.

Award Amount
$399,650

Watershed
Los Angeles River Watershed

County
Los Angeles County

CALFED Region
Southern California Region

Legislative Districts
US Congress: 30, State Assembly: 41, State Senate: 23

Purpose

Conduct research to determine an effective means to increase groundwater recharge and develop an assessment that will quantify potential reduction in water demand from the Bay-Delta system

Project Goals

- Provide information to watershed agencies and groups on how to decrease dependency on Delta-derived water by supplementing groundwater
- Protect existing infiltration areas to increase recharge of high quality native water
- Raise local and regional awareness of the importance of high quality native water recharge to groundwater basins
- Encourage jurisdictional agencies, local stakeholders, and community groups to incorporate the findings of the research into watershed planning, land use policy, and community outreach

Benefits to the Bay-Delta System

Headwaters to Groundwater is a research project that assesses the potential for developing a dependable local water supply system in the Upper Los Angeles River watershed that can reduce the dependency on water imported from the Bay-Delta system. Increasing groundwater recharge with high quality native water reduces reliance on the entire Bay-Delta system to supply the water needs of Los Angeles River watershed residents. The decreased dependence on Delta-derived water assists in protecting the beneficial uses of the Bay-Delta system and meets the CALFED objectives of ecosystem quality and water supply reliability. Research derived from this project will encourage jurisdictional agencies, local stakeholders, and community groups to refine existing plans and incorporate the findings into watershed planning, land use policy, and community outreach. This project has the potential to be replicated in other watersheds and stands to provide a large cumulative benefit to the Bay-Delta system.

Project Overview

The San Fernando Valley groundwater basin, a source of drinking water for more than 600,000 residents of Los Angeles, Glendale, and Burbank, is threatened by dropping water levels, pollution, and recharge areas that have been replaced by urban development. Bay-Delta water is imported to mitigate the water supply needs compounded by these issues.

The geographical area covered by this project comprises approximately 33,000 acres in the western end of the Upper Los Angeles River area, including the undeveloped sections of the Santa Susana Mountains, Simi Hills, and Santa Monica Mountains. This focus area has not been covered in any planning or assessment efforts to date, as emphasis has been on the main channel of the Los Angeles River and the Sun Valley subwatershed. This project identifies areas that currently recharge quality native water to the local water source and provides opportunities to increase infiltration of unimpaired water from an undeveloped area to the local water source. The project integrates science-based data into the existing watershed plans of jurisdictional agencies and local watershed groups. The project will raise local awareness of water management issues and lead to better-informed watershed stewardship. This research will assist in the management of the watershed as a whole by fostering an understanding of the role natural lands play in the health of local water supplies.

A research advisory committee will ensure that the results of this project are based on sound science and can be replicated in other watersheds. The prime task of the project is to conduct a recharge suitability analysis in order to determine critical areas in need of protection and enhancement. A watershed assessment will include an analysis for contaminants. Water quality is monitored to determine the health of streams and whether the streams contribute pollutants to groundwater and the Los Angeles River. Biotic surveys are conducted to avoid any negative impacts on high quality habitat. Following the analysis, recommendations will be made and circulated for potential incorporation into existing and future planning efforts.

Undeveloped open space in the Los Angeles River watershed.

Contact Information

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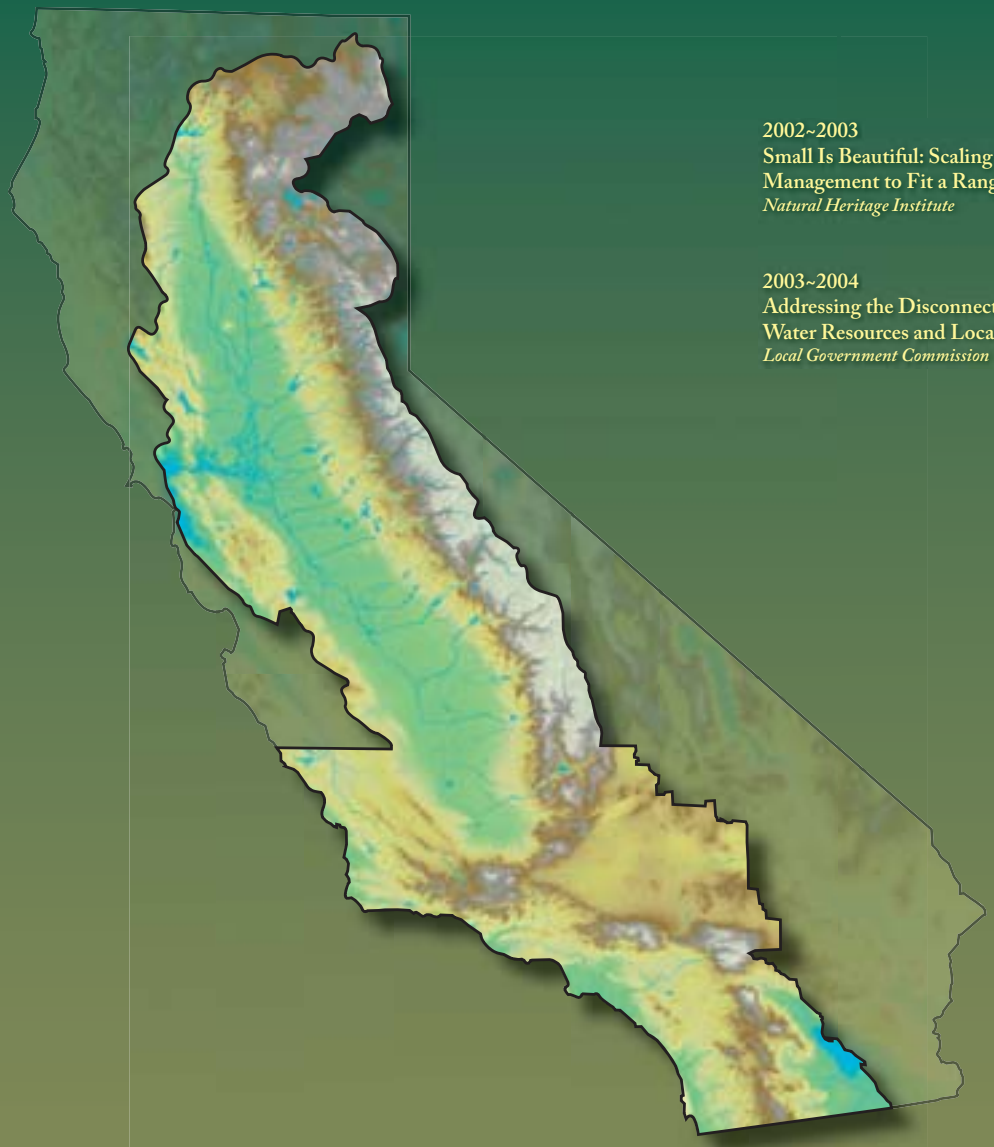
Website: ***www.mountainstrust.org***



2002~2003
Small Is Beautiful: Scaling Adaptive Management to Fit a Range of Riverine Systems
Natural Heritage Institute

2003~2004
Addressing the Disconnect: Water Resources and Local Land Use Decisions
Local Government Commission

Small Is Beautiful: Scaling Adaptive Management to Fit a Range of Riverine Systems

Natural Heritage Institute

Yuba River (photograph by Alan Banfield).

Purpose

Tailor the concept of adaptive management to support small-scale restoration and watershed management efforts

Project Goals

- Identify and develop pilot projects in several communities and assist in the application of adaptive management to restoration projects
- Effectively apply adaptive management to small-scale systems to generate meaningful and transferable information about river function and restoration
- Develop and distribute a primer for applying adaptive management in smaller-scale restoration projects

Award Amount
$183,500

Watershed
Applicable to all watersheds in the CALFED solution area

County
Applicable to all counties in the CALFED solution area

CALFED Region
Program-wide

Legislative Districts
Applicable to all legislative districts in the CALFED solution area

Benefits to the Bay-Delta System

Implementing an effective adaptive management plan is essential for projects that aim to optimize water quality and improve aquatic and terrestrial habitats. The Natural Heritage Institute is working with other organizations, including the College of Natural Resources at the University of California, Berkeley, to provide adaptive management expertise for small projects. Project activities help communities identify key ecological processes in their watershed and manage more effectively to restore those processes. Small Is Beautiful meets an environmental justice goal by assisting small urban and rural watersheds that have financial hardships with developing adaptive management plans for their riverine and restoration projects. This project benefits the Bay-Delta system by helping smaller projects meet their restoration and management goals, and improving the health of the individual watersheds and the Bay-Delta system as a whole.

Project Overview

Adaptive management is a resource management strategy based on the assumption that ecosystems are highly variable systems with dynamic and difficult-to-predict responses to management activities. In a world of insufficient information about whole systems, adaptive management involves monitoring the results of management efforts and adjusting activities as needed. In the cases where adaptive management is practiced, lessons are being learned about how best to apply this new approach.

A significant amount of restoration work is being undertaken on a small watershed or sub-basin scale. However, examples of how to apply adaptive management are derived from large-scale ecosystem restoration efforts implemented by teams of scientists and managers with relatively large budgets. There is much to be learned from applying adaptive management to small-scale systems with limited institutional capacity and financial resources. The project will produce and use a new model of adaptive management that recognizes these constraints. The project will develop a primer, "Applying Adaptive Management in Small-Scale Restoration Projects," to present the knowledge gained by implementing adaptive management in three to five smaller-scale experiments. This information will be publicized and widely distributed.

The Small Is Beautiful project is designed to directly address the limitations or gaps in knowledge regarding the application of adaptive management to small-scale restoration initiatives, by initially working with three to five small pilot projects. Expected outcomes include:

- increasing the number of CALFED-supported projects that produce significant direct scientific connections between implementation and physical effects in the watershed;
- increasing community involvement in the management of local resources;
- increasing the likelihood that projects meet their management goals;
- increasing the level of confidence in scientific data generated through citizen-based monitoring in the adaptive management process;
- reducing the cost associated with long-term project management and adaptive management;
- increasing coordination and learning across restoration projects; and
- ensuring technology/information transfer.

Yuba Science Advisory Committee at their first meeting (photograph by Steve Nicola).

Contact Information

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A drainage swale at Village Homes in Davis, a model community that incorporates on-site water retention, groundwater recharge, and sustainability values in its design.

Award Amount
$450,000

Watershed
Applicable to all watersheds in the CALFED solution area

County
Applicable to all counties in the CALFED solution area

CALFED Region
Program-wide

Legislative Districts
Applicable to all legislative districts in the CALFED solution area

Purpose

Educate and encourage locally elected officials to consider effects on water resources when making land-use decisions

Project Goals

- Develop and implement an outreach and education project for local elected officials
- Develop local planning approval principles and policies for implementation by local governments
- Reduce overall water demand on the Bay-Delta system

Benefits to the Bay-Delta System

This project benefits local governments through education of local officials about sustainable development, water conservation practices, urban runoff, and groundwater recharge. The general public benefits when local officials make land-use decisions on a regional watershed basis, rather than as independent entities. The benefits accrue from supporting long-term sustainability of watersheds, reducing demands on imported water, and increasing collaboration among individual agencies throughout their shared watersheds.

Project Overview

The Local Government Commission (LGC), in collaboration with the League of California Cities and the California State Association of Counties, is providing local elected officials with the tools to make land-use decisions that support the long-term sustainability of watersheds, work with neighboring jurisdictions in their watershed, and enact policies to reduce dependence on imported water. This project provides support for communities to make land-use planning decisions in the context of a watershed, rather than just existing jurisdictional boundaries.

The LGC has convened a technical advisory committee of local, regional and state officials and water experts to review draft principles and policies that focus on whole-systems planning and the value of making decisions at the watershed scale. A guidebook that includes these principles, a model general plan water element, and implementation policies will be published and introduced at an annual conference for mayors, city council members, and county supervisors. Five executive briefs that provide in-depth information on watershed management, water reuse and recycling, water conservation strategies, urban runoff, groundwater and conjunctive use, and best management practices and technology for new development will complement the guidebook. The principles of watershed planning will be the topic of six workshops within the Bay-Delta system to further educate local elected officials and provide an opportunity to interact and work together on a watershed basis.

This project includes a new web-based resource entitled "First Stop Shop for Water" for use by local elected officials and staff. It will be located on the LGC website and provide basic information and links to key resources for local government staff to implement the general plan water element. The guidebook, executive briefs, and conference and workshop presentations will be available for download from the website.

Within the project's three years, the LGC expects a minimum of 50 local governments to adopt a water conservation element in their general plans and a minimum of 100 local governments to adopt at least one recommended water conservation strategy. As these local governments successfully implement these learned conservation strategies, other local governments may duplicate their efforts. Ultimately, the LGC hopes that the full complement of strategies, including working within a watershed context, will become business as usual in California's cities and counties.

Community members working together on a local plan.

Contact Information

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Project Name	District Number																																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Bear Creek Watershed Assessment		✓																																													
Clear Lake Watershed Mercury and Nutrient Assessment	✓																																														
Colfax Community Watershed and Fire Safe Ecosystem Project				✓																																											
Cottonwood Creek Watershed Strategy		✓	✓																																												
Deer Creek Watershed Erosion and Sediment Control Project—Phase II Implementation			✓																																												
Enhancing Local Capacity in North Richmond and Parchester Village to Manage and Restore the Lower Rheem Creek Watershed							✓																																								
Glenn County Surface Water Stewardship			✓																																												
Inventory, Eradication, and Monitoring of Invasive Species	✓																																														
Lower Clear Creek Spawning Gravel Injections		✓																																													
North Yuba River Watershed Improvement: Abandoned Mine Reclamation and Restoration		✓																																													
Oakland Releaf Watershed Protection Program									✓																																						
Panoche Creek Stabilization Project																				✓																											
Plymouth Area Vineyard Erosion Control				✓																																											
Putah Creek—Yolo Housing Authority Project			✓																																												
Restoring Deer Creek: Building Partnerships to Overcome the Legacy of the Gold Rush Era		✓																																													
Small Is Beautiful: Scaling Adaptive Management to Fit a Range of Riverine Systems *																																															
South Yuba Watershed Project		✓																																													
Stewards of the Arroyo Pasajero: Sharing Our Success																				✓																											
Stony Creek Watershed Management Plan		✓																																													
Tehama West Watershed Assessment		✓																																													
Upper Finegold Creek Watershed Planning																			✓																												
Upper Merced River Watershed Management Plan																			✓																												

* This project is not district-specific. It is applicable to all watersheds in the CALFED solution area.

Project Name	District Number																																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase I			✓																																												
Upper Pit River Watershed Enhancement and Protection Project, combined with the Alturas Storm Water Management Plan		✓																																													
Upper Spanish Creek Watershed Assessment and Restoration Strategy		✓																																													
Upper Trinity River Watershed Management Planning Project		✓																																													
Water Quality Improvement in Cow Creek Watershed		✓																																													
Watershed Restoration Action Plan and Priority Projects (WRAPPP), Wildcat and San Pablo Creeks							✓																																								
Yuba River Citizen Monitoring Program—Phase II		✓		✓																																											

2002-2003 Awards by State Senate District

Project Name	District Number																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Bear Creek Watershed Assessment				✓																									
Clear Lake Watershed Mercury and Nutrient Assessment		✓																											
Colfax Community Watershed and Fire Safe Ecosystem Project	✓																												
Cottonwood Creek Watershed Strategy				✓																									
Deer Creek Watershed Erosion and Sediment Control Project—Phase II Implementation				✓																									
Enhancing Local Capacity in North Richmond and Parchester Village to Manage and Restore the Lower Rheem Creek Watershed							✓		✓																				
Glenn County Surface Water Stewardship				✓																									
Inventory, Eradication, and Monitoring of Invasive Species		✓																											
Lower Clear Creek Spawning Gravel Injections				✓																									
North Yuba River Watershed Improvement: Abandoned Mine Reclamation and Restoration	✓																												
Oakland Releaf Watershed Protection Program									✓																				
Panoche Creek Stabilization Project																✓													
Plymouth Area Vineyard Erosion Control	✓																												
Putah Creek—Yolo Housing Authority Project				✓																									
Restoring Deer Creek: Building Partnerships to Overcome the Legacy of the Gold Rush Era	✓																												
Small Is Beautiful: Scaling Adaptive Management to Fit a Range of Riverine Systems *																													
South Yuba Watershed Project		✓																											
Stewards of the Arroyo Pasajero: Sharing Our Success															✓														
Stony Creek Watershed Management Plan	✓																												
Tehama West Watershed Assessment				✓																									
Upper Finegold Creek Watershed Planning														✓															
Upper Merced River Watershed Management Plan												✓																	
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase I	✓																												
Upper Pit River Watershed Enhancement and Protection Project, combined with the Alturas Storm Water Management Plan	✓																												

* This project is not district-specific. It is applicable to all watersheds in the CALFED solution area.

Project Name	District Number																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Upper Spanish Creek Watershed Assessment and Restoration Strategy	✓																												
Upper Trinity River Watershed Management Planning Project				✓																									
Water Quality Improvement in Cow Creek Watershed				✓																									
Watershed Restoration Action Plan and Priority Projects (WRAPPP), Wildcat and San Pablo Creeks							✓												✓										
Yuba River Citizen Monitoring Program—Phase II	✓																												

Project Name	District Number																																																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Bear Creek Watershed Assessment		✓																																																									
Clear Lake Watershed Mercury and Nutrient Assessment	✓																																																										
Colfax Community Watershed and Fire Safe Ecosystem Project				✓																																																							
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Deer Creek Watershed Erosion and Sediment Control Project—Phase II Implementation		✓																																																									
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Inventory, Eradication, and Monitoring of Invasive Species	✓																																																										
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North Yuba River Watershed Improvement: Abandoned Mine Reclamation and Restoration			✓																																																								
Oakland Releaf Watershed Protection Program																✓																																											
Panoche Creek Stabilization Project																														✓																													
Plymouth Area Vineyard Erosion Control				✓																																																							
Putah Creek—Yolo Housing Authority Project								✓																																																			
Restoring Deer Creek: Building Partnerships to Overcome the Legacy of the Gold Rush Era			✓																																																								
Small Is Beautiful: Scaling Adaptive Management to Fit a Range of Riverine Systems *																																																											
South Yuba Watershed Project			✓																																																								
Stewards of the Arroyo Pasajero: Sharing Our Success																														✓																													
Stony Creek Watershed Management Plan		✓																																																									
Tehama West Watershed Assessment		✓																																																									
Upper Finegold Creek Watershed Planning																			✓																																								

* This project is not district-specific. It is applicable to all watersheds in the CALFED solution area.

Project Name	District Number																																																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Upper Merced River Watershed Management Plan																			✓																																								
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase I				✓						✓															✓																																		
Upper Pit River Watershed Enhancement and Protection Project, combined with the Alturas Storm Water Management Plan			✓																																																								
Upper Spanish Creek Watershed Assessment and Restoration Strategy			✓																																																								
Upper Trinity River Watershed Management Planning Project		✓																																																									
Water Quality Improvement in Cow Creek Watershed		✓																																																									
Watershed Restoration Action Plan and Priority Projects (WRAPPP), Wildcat and San Pablo Creeks														✓																																											
Yuba River Citizen Monitoring Program—Phase II			✓	✓																																																							

2003-2004 Awards by U.S. Congressional District

Project Name	District Number																																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
A Watershed Management Plan for Restoration Feasibility of the Tujunga Wash																										✓	✓		✓																		
Addressing the Disconnect: Water Resources and Local Land Use Decisions *																																															
Arcade Creek—Tackling the Impacts of Urbanization			✓	✓	✓																																										
Battle Creek Watershed Stewardship		✓	✓																																												
Baxter Creek Gateway Restoration Project							✓			✓																																					
Building a Sustainable Upper Merced River Watershed Organization																			✓																												
Chico Urban Streams Alliance Clean Creeks Project		✓																																													
Clavey River Watershed Assessment																			✓																												
Codornices Creek Watershed Restoration Action Plan—Phase 2									✓																																						
Community Water-Use Efficiency Education and Training (WET) Project																																			✓		✓										
Community-Based Restoration of Lower Putah Creek Watershed	✓		✓																																												
Cosumnes River Preserve Management Plan			✓								✓																																				
Cottonwood Creek Watershed Management Plan		✓																																													
Deer Creek Watershed Management Plan Implementation: Phase III		✓																																													
Dry Creek Watershed Assessment				✓																																											
Fresno Central Watershed Education Program																			✓																												
Headwaters to Groundwater: Upper Los Angeles River Area Assessment Project																														✓																	
Integrated Ecosystem Improvements for Shasta County Watersheds		✓																																													
Kings River Experimental Watershed: Monitoring and Restoration of Forest Ecosystems																					✓																										
Laguna Creek Watershed Project			✓																																												
Lake Almanor Watershed Planning and Nonpoint Source (NPS) Pollution Control		✓																																													

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Project Name	District Number																																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Lower American River Environmental Enhancement					✓																																										
Lower Mokelumne River Watershed Stewardship Plan		✓									✓																																				
Merced River Alliance Project																		✓	✓																												
Millerton Area Watershed Action Plan																			✓		✓																										
Mt. Diablo Creek Watershed Coordinated Resource Management and Planning Program							✓			✓																																					
Pit Resource Conservation District Watershed Management Project		✓																																													
Red Clover Creek/McReynolds Restoration Project		✓																																													
Sacramento River Watershed Program—Program Support	✓	✓	✓	✓	✓																																										
Stony Creek Watershed Assessment and Monitoring Program		✓																																													
Suisun Creek Watershed Program	✓						✓																																								
Tehama West Watershed Management Program		✓																																													
This River Is Our River, Phase 2—Watershed Capacity Building										✓	✓							✓	✓	✓	✓																										
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase II			✓																																												

2003-2004 Awards by State Senate District

Project Name	District Number																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
A Watershed Management Plan for Restoration Feasibility of the Tujunga Wash																	✓			✓			✓						
Addressing the Disconnect: Water Resources and Local Land Use Decisions *																													
Arcade Creek—Tackling the Impacts of Urbanization	✓					✓																							
Battle Creek Watershed Stewardship				✓																									
Baxter Creek Gateway Restoration Project							✓			✓																			
Building a Sustainable Upper Merced River Watershed Organization														✓															
Chico Urban Streams Alliance Clean Creeks Project	✓																												
Clavey River Watershed Assessment														✓															
Codornices Creek Watershed Restoration Action Plan—Phase 2									✓																				
Community Water-Use Efficiency Education and Training (WET) Project																									✓		✓	✓	
Community-Based Restoration of Lower Putah Creek Watershed		✓			✓																								
Cosumnes River Preserve Management Plan	✓													✓															
Cottonwood Creek Watershed Management Plan				✓																									
Deer Creek Watershed Management Plan Implementation: Phase III				✓																									
Dry Creek Watershed Assessment	✓																												
Fresno Central Watershed Education Program														✓															
Headwaters to Groundwater: Upper Los Angeles River Area Assessment Project																							✓						
Integrated Ecosystem Improvements for Shasta County Watersheds				✓																									
Kings River Experimental Watershed: Monitoring and Restoration of Forest Ecosystems														✓															
Laguna Creek Watershed Project	✓																												
Lake Almanor Watershed Planning and Nonpoint Source (NPS) Pollution Control	✓																												
Lower American River Environmental Enhancement						✓																							
Lower Mokelumne River Watershed Stewardship Plan					✓																								
Merced River Alliance Project												✓		✓															

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Project Name	District Number																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Millerton Area Watershed Action Plan														✓															
Mt. Diablo Creek Watershed Coordinated Resource Management and Planning Program							✓																						
Pit Resource Conservation District Watershed Management Project	✓			✓																									
Red Clover Creek/McReynolds Restoration Project	✓																												
Sacramento River Watershed Program—Program Support	✓	✓		✓	✓																								
Stony Creek Watershed Assessment and Monitoring Program				✓																									
Suisun Creek Watershed Program		✓		✓																									
Tehama West Watershed Management Program				✓																									
This River Is Our River, Phase 2—Watershed Capacity Building					✓							✓		✓		✓													
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase II	✓																												

Project Name	District Number																																																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
A Watershed Management Plan for Restoration Feasibility of the Tujunga Wash																																						✓	✓			✓	✓																
Addressing the Disconnect: Water Resources and Local Land Use Decisions *																																																										
Arcade Creek—Tackling the Impacts of Urbanization				✓	✓				✓																																																		
Battle Creek Watershed Stewardship		✓																																																									
Baxter Creek Gateway Restoration Project														✓																																													
Building a Sustainable Upper Merced River Watershed Organization																									✓																																		
Chico Urban Streams Alliance Clean Creeks Project			✓																																																								
Clavey River Watershed Assessment																									✓																																		
Codornices Creek Watershed Restoration Action Plan—Phase 2														✓																																													
Community Water-Use Efficiency Education and Training (WET) Project																																																			✓	✓	✓		✓				
Community-Based Restoration of Lower Putah Creek Watershed		✓					✓	✓																																																			
Cosumnes River Preserve Management Plan										✓					✓																																												
Cottonwood Creek Watershed Management Plan		✓																																																									
Deer Creek Watershed Management Plan Implementation: Phase III		✓																																																									
Dry Creek Watershed Assessment				✓																																																							
Fresno Central Watershed Education Program																													✓	✓																													
Headwaters to Groundwater: Upper Los Angeles River Area Assessment Project																																									✓																		
Integrated Ecosystem Improvements for Shasta County Watersheds		✓																																																									
Kings River Experimental Watershed: Monitoring and Restoration of Forest Ecosystems																													✓																														
Laguna Creek Watershed Project										✓					✓																																												

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Project Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Lake Almanor Watershed Planning and Non-point Source (NPS) Pollution Control			✓																											
Lower American River Environmental Enhancement									✓																					
The Lower Mokelumne River Watershed Stewardship Plan										✓																				
Merced River Alliance Project														✓											✓					
Millerton Area Watershed Action Plan																									✓				✓	
Mt. Diablo Creek Watershed Coordinated Resource Management and Planning Program											✓																			
Pit Resource Conservation District Watershed Management Project		✓	✓																											
Red Clover Creek/McReynolds Restoration Project			✓																											
Sacramento River Watershed Program—Program Support		✓	✓	✓			✓			✓																				
Stony Creek Watershed Assessment and Monitoring Program		✓																												
Suisun Creek Watershed Program								✓																						
Tehama West Watershed Management Program		✓																												
This River Is Our River, Phase 2—Watershed Capacity Building															✓		✓								✓	✓			✓	
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase II				✓						✓															✓					

Project Name	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Lake Almanor Watershed Planning and Non-point Source (NPS) Pollution Control																													
Lower American River Environmental Enhancement																													
The Lower Mokelumne River Watershed Stewardship Plan																													
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Suisun Creek Watershed Program																													
Tehama West Watershed Management Program																													
This River Is Our River, Phase 2—Watershed Capacity Building	✓																												
Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP)—Phase II																													

WATERSHED PROGRAM

Document Prepared by Jones & Stokes