









CALIFORNIA

CULTIVATING CLIMATE-READY LANDSCAPES

KARINA HERRERA, STATE WATER BOARD ANDREW BRENNER, NV5 REGINA HIRSCH, WATERSHED PROGRESSIVE PAUL PIAZZA, SONOMA WATER TRATHEN HECKMAN, DAILY ACTS

Making Conservation a California Way of Life Overview of the Outdoor Standards

FORNIA

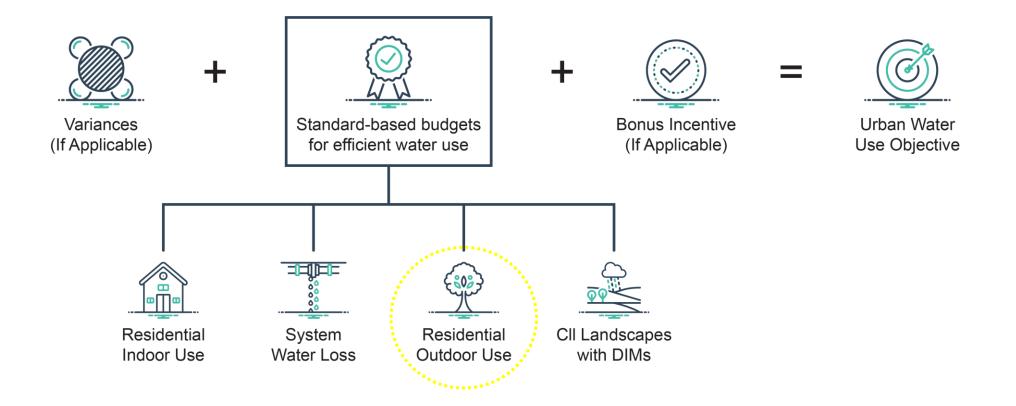
Water Boards

Karina Herrera Conservation Supervisor

Office of Research, Planning, and Performance

Calculating an Objective

Based on efficiency standards and customized, supplier-specific data



Efficient Residential Outdoor Budget



Example budget for Res-Outdoor use (2019 data) 0.80 * (55 in. - 2 in.) * 324 million sq. Ft. * 0.62 =

~ 26.1 thousand AF

Residential Outdoor Budget (§968)

What is required and by when?

For the report submitted by January 1...

The Res-outdoor budget will be based on a standard of...

2037 0.63 LEF 2042

0.55 LEF

2026 and until January 1, 2036: 0.80 LEF

§968 Residential Outdoor Budget

What is required and by when?

For a report submitted **any** given year:

- Budgets associated with newly constructed residential landscapes are calculated using a LEF of 0.55
- Budgets associated with residential special landscape areas are calculated using a LEF of 1.0

If a supplier is not meeting their objective, it can adjust their landscape area by including 20% Irrigable Not Irrigated area.

This is an option <u>until</u> the supplier's landscape area is updated.

A supplier can also adjust landscape area by adding Res-parkway area.

 The Department of Water Resources is providing provisional parkway data with the CII-LUCD data

Water use standard for outdoor use is a Landscape Efficiency Factor



7

Native plant garden on drip and micro spray irrigation with majority low and very low water using plants and a few medium water using plants





A majority of yard is low water using plants irrigated with drip + warm season grass with overhead sprays

This is the <u>2040 standard</u> for residential outdoor use

Warm season grass inefficiently irrigated (e.g., not properly tuned, running too long) with lawn sprinklers

§968 Residential outdoor Budget

What do the data from the 2025 reports show?

Of the **325** suppliers that submitted reports *with adequate data to calculate objectives...*

 14 suppliers have a Res-outdoor budget that represents 70% or more of their uncapped objective; for 118 suppliers, it represents 30% or less of their uncapped objective.

The Res-outdoor budget represents, on average, **38%** of the uncapped objective. The median is **37%**.

Of the **342** suppliers that submitted reports....

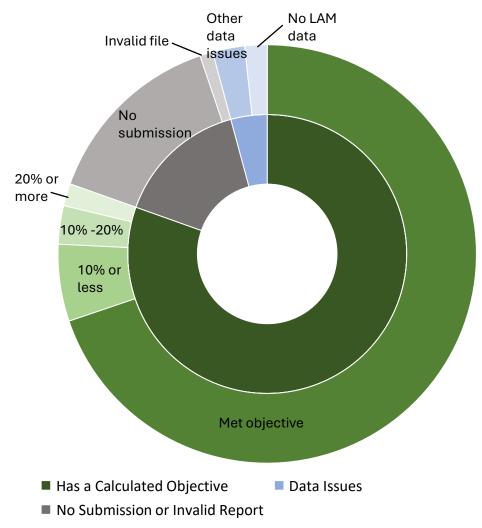
- **1** supplier used their own LAM data to calculate the budget.
- **19** suppliers included data for outdoor variances.
- 82 suppliers included data for newly constructed residential landscapes.
- **17** suppliers included data for residential Special Landscape Areas.

Making Conservation a Way of Life

What do the data from the 2025 reports show?

342 (out of 404) urban retail water suppliers submitted reports. Of the **325** that submitted reports *with adequate data to calculate objectives...*

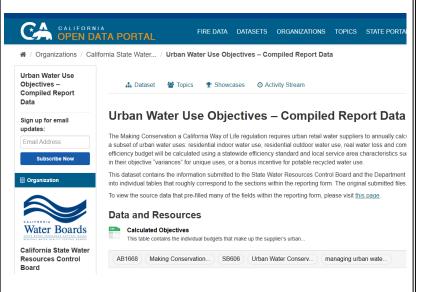
- **282** met the objective for Fiscal Year 2023-2024.
- **24** would have to reduce 'regulated demand' by 10% or less.
- **12** suppliers would have to reduce 'regulated demand' by 10 to 20%.
- **7** suppliers would have to reduce 'regulated demand' by 20% or more



Now also on the Open Data Portal

https://data.ca.gov/dataset/urban-water-use-objectives-compiled-report-data

- FY 23-24 urban water use objective reported data
 - Calculated Objectives table published
 - · More coming over the next few months







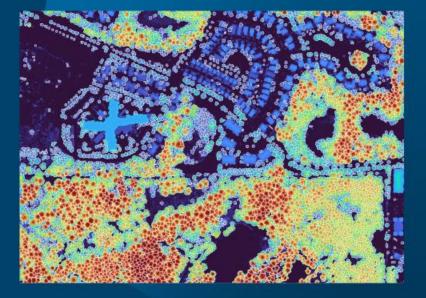
UNDERSTANDING YOUR IRRIGATED LANDSCAPE AND ITS WATER USE THROUGH MAPPING TECHNOLOGIES

Andrew Brenner Vice-President Solutions Engineering

N V 5

PRESENTATION OVERVIEW

- Why land cover and land use are so important?
- Mapping vegetation and its irrigation status
- How does this help you
 - Water use efficiency
 - Stormwater & pollution management
 - Tree canopy management, microclimate modification and fire risk
- Summary



WATER CONSERVATION A CALIFORNIAN WAY OF LIFE

NV5

URBAN WATER USE EFFICIENCY STANDARDS AND WATER USE OBJECTIVE

Legislation required the state to create equitable allocations for urban water suppliers



NV5GEOSPATIAL.COM | BEYOND ENGINEERING

CALIFORNIA STATEWIDE URBAN IRRIGATED LANDSCAPE PROGRAM

- Equitable assessment of water use
- · Good water stewards
- · Water Use Objective customized to each district
 - Indoor Population x gallon per person per day
 - Outdoor
 - Landscape area
 - Potential Evapotranspiration ET₀
 - ET factor (0.8 and decreasing)
- NV5 classified
 - For residential landscapes ~ 14,000 square miles
 - For commercial, industrial and institutional landscapes ~ 12,000 square miles
 - Summarized data for over 400 water suppliers
 - Estimated landscape area for over 12 millions individual residential parcels
 - MMU 64 square feet
 - 95% accuracy (residential at supplier level)
 - 95% accuracy (CII at polygon level)



NV 5



RESIDENTIAL CLASSIFICATION

Irrigated

- Lawns
- Shrubs and trees
- Ground cover in irrigated areas (mulch/soil)
- Irrigable not Irrigated
 - Dry lawns
 - Dry landscaping that has evidence of irrigation
- Not Irrigable
 - Structures, roads, sidewalks, impervious
 - Undeveloped land
 - Open Water
- Special Cases
 - Horse Corals
 - Artificial Turf



CLASSIFICATION SCHEME CII

LUCD Canopy Priority Classification System									
Level 1	Level 2	Irrigation Status							
1. Impervious	Impervious	Not Irrigable							
2. Pools	Swimming pools/man made water features	Irrigated							
3. Irrigated	3.1 Turf grass3.1 Vegetation cover3.2 Canopy3.3 Bare Earth	Irrigated (CII Turf grass separated in functional and non-functional turf)							
4. Irrigable not irrigated	4.1 Turf grass/ground cover4.1 Vegetation Cover4.2 Canopy4.3 Bare Earth	Irrigable not irrigated							
5. Non irrigated vegetation	Undeveloped for the purposes of irrigation	Not Irrigable							
6. Undeveloped lands	Undeveloped Lands	Not Irrigable							
7. Horse Corrals	Horse Corrals	Irrigated							
8. Open Water	Other open natural water (rivers/ponds)	Not Irrigable							
9. Artificial Turf	Artificial Turf	Not Irrigable							
10. Agricultural Land	Agricultural Land (1 acre of agriculture within a single parcel or 1 acre of contiguous agriculture across 2 or more parcels)								

N V 5

LANDSCAPE AREA ESTIMATES MODELING PROCESS

Imagery Segmentation – Deep learning Classification – Review and QC





LUCD – Land Use Cover Dataset

- What is being **irrigated** across the landscape?
- What is irrigable but not currently being irrigated across the landscape?
- Where are the areas that are **not being irrigated**?
- Where are some areas that could be targeted for a reduction in irrigation for water conservation?



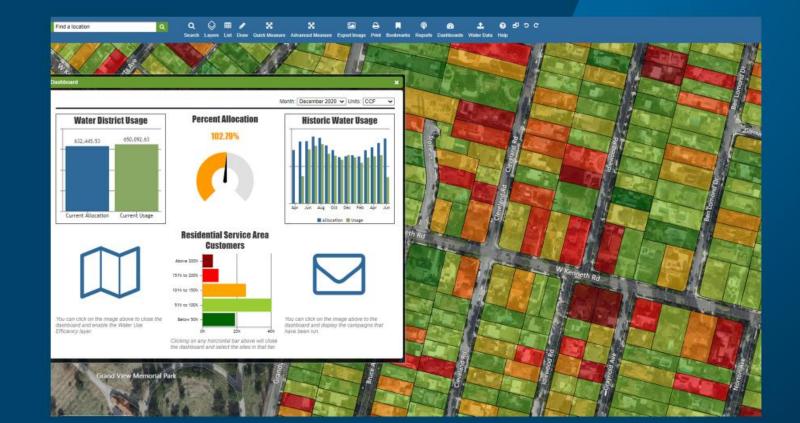


Where are the data?

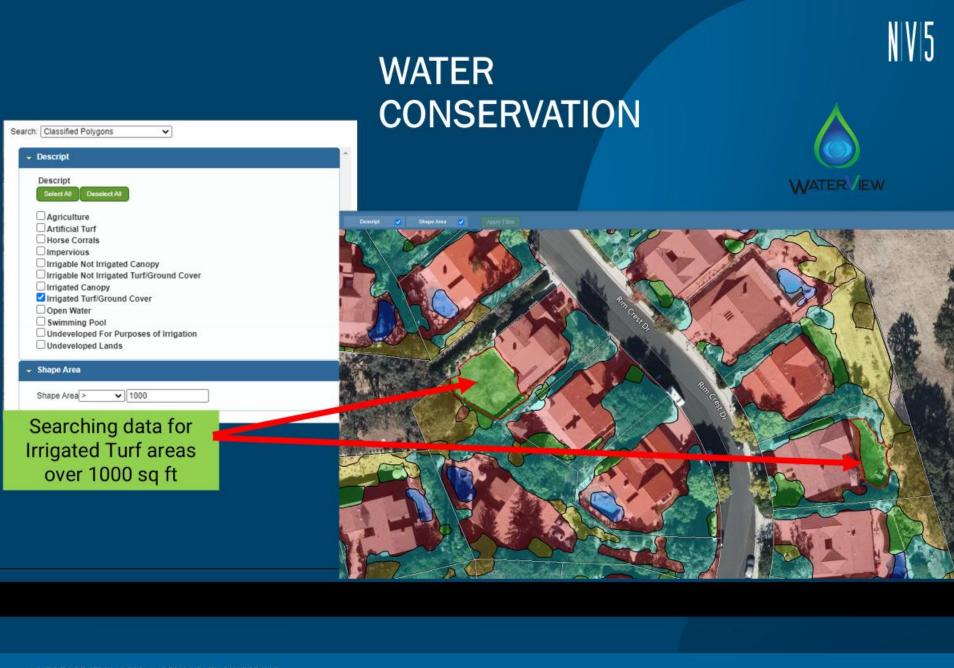
- Residential
 - Have been provided to suppliers for each parcel and with district summaries
 - All suppliers have these data
- CII
 - Being provided to suppliers
- Data can be seen
 - Through CalWEP viewer
 - <u>CalWEP LAM Explorer » California Water</u> <u>Efficiency Partnership</u>



Data Use: Water Conservation



NV5



NV5GEOSPATIAL.COM | BEYOND ENGINEERING

Data Use: Stormwater Runoff & Pollutants

- The LUCD datasets can be used to support stormwater runoff calculations
 - Impervious
 - Pervious
 - Canopy
- Can identify opportunities for water infiltration
- Can also be used to estimate nonpoint source pollution
 - Residential lawns
 - Commercial impervious
 - Land use x Land cover



NV5

Data Use: Canopy and Green Space

- LUCD data can be used to assess tree canopy
 - Microclimate impacts
 - Fire risk
 - Health benefits
- LUCD data in combination with lidar can quantify
 - Carbon storage
 - Carbon fixation
 - Air pollution reduction
 - Canopy health
 - Change detection



Impervious 2 Water features, swimming pools 3A Irrigated turf 3B Irrigated tree 3C Irrigated shrub 3D Irrigated BE 4A INI turf 4B INI tree 4C INI shrub 4D INI BE 5B Not irrigable 8A Open water 9 Artificial turf

NV5

Summary



- Land cover and land use determine water requirements
- Remote sensing methods allow the creation of the data over large areas consistently at a reasonable price
- The cost and accuracy depend on the classification system and quality of source data
- These data will support an analysis of
 - Water use efficiency
 - Stormwater runoff
 - Tree canopy and open space questions





Contact information Andrew Brenner - andrew.brenner@NV5.com

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Stacked Incentives for Healthy Watershed Communities

Global Strategies: Local Action A Danish-Californian Dialogue

April 10, 2025

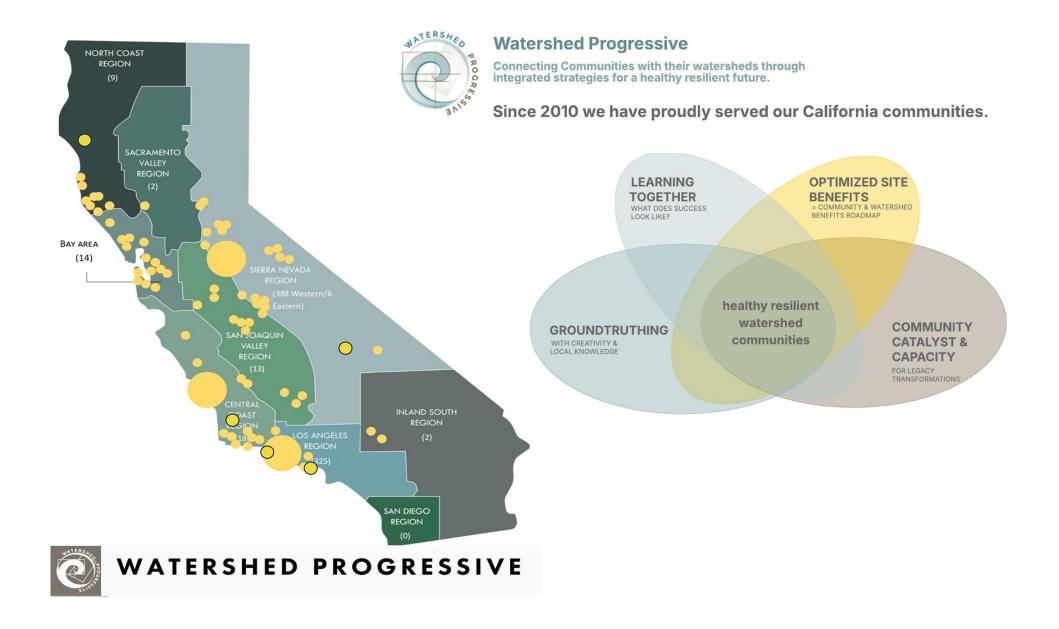






Connecting Communities

with their watersheds through integrated strategies for a healthy resilient future.

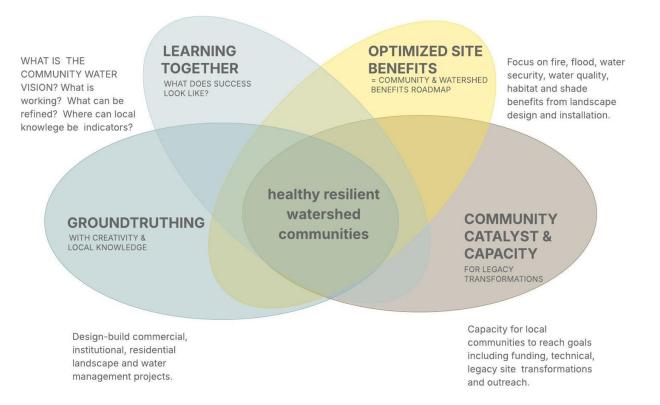


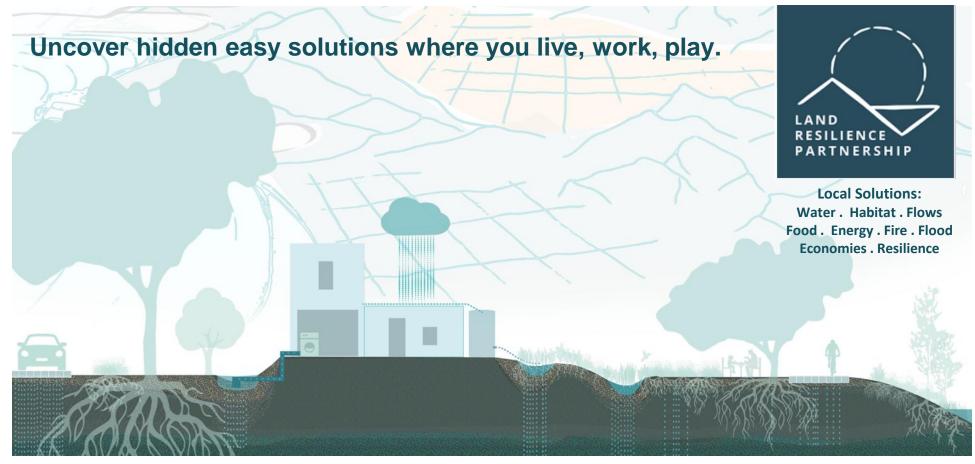


Watershed Progressive

Connecting Communities with their watersheds through integrated strategies for a healthy resilient future.

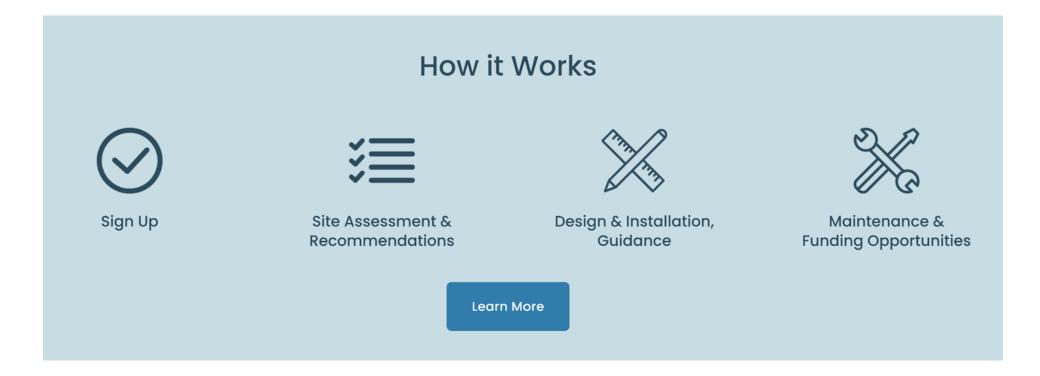
Since 2010 we have proudly served our California communities.





Land Resilience Partnership (LRP)

How can local options help you? Fire. Drought. Flood. Shade. Food. Energy.







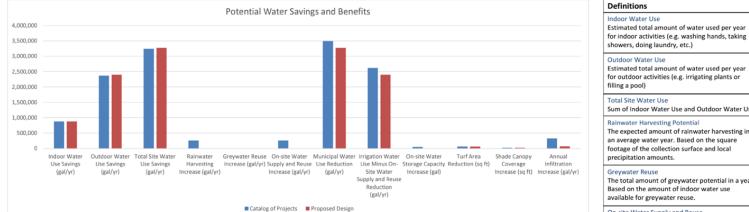


Assessment Date: 08-20-24 CATALOG OF PROJECTS

Not for Construction



Site Assessment Benefits Report California Elementary School



Scenario	Indoor Water Use (gal/yr)	Outdoor Water Use (gal/yr)	Total Site Water Use (gal/yr)	Rainwater Harvesting Potential (gal/yr)	Greywater Reuse (gal/yr)	On-site Water Supply and Reuse (gal/yr)	Municipal Water Use (gal/yr)	Irrigation Water Use Minus On- site Water Supply and Reuse (gal/yr)	On-site Water Storage Capacity (gal)	Turf Area (sq ft)	Shade Canopy Coverage (sq ft)	Annual Infiltration Increase (gal/yr)
Existing Conditions	2,219,822	4,501,797	6,721,619	0	0	0	6,721,619	4,501,797	0	114,953	91,124	-
Catalog of Projects	1,343,258	2,135,875	3,479,133	252,994	0	252,994	3,226,139	1,882,880	45,900	54,785	110,561	321,832
Proposed Design	1,343,258	2,104,751	3,448,010	0	0	0	3,448,010	2,104,751	0	54,785	110,143	64,792
Potential Water Savings and Benefits - Catalog of Projects	876,564	2,365,923	3,242,486	252,994	0	252,994	3,495,481	2,618,917	45,900	60,168	19,437	321,832
Potential Water Savings and Benefits - Proposed Design	876,564	2,397,046	3,273,610	0	0	0	3,273,610	2,397,046	0	60,168	19,019	64,792

Sum of Indoor Water Use and Outdoor Water Use **Rainwater Harvesting Potential** The expected amount of rainwater harvesting in an average water year. Based on the square footage of the collection surface and local precipitation amounts. Greywater Reuse The total amount of greywater potential in a year. Based on the amount of indoor water use available for greywater reuse. **On-site Water Supply and Reuse**

The sum of rainwater harvesting and greywater reuse

Municipal Water Use

The total site water use minus rainwater harvesting and greywater reuse

Irrigation Water Use Minus On-site Water Supply and Reuse

Amount of water used for irrigation minus

rainwater harvesting and greywater reuse

On-site Water Storage Capacity Total capacity of water storage tanks

Turf Area

Total area of turf grass Shade Canopy Coverage

Total area under tree canopy

Annual Infiltration Increase

The annual increase in stormwater infiltration. Increased infiltration occurs when an impervious surface is replaced with a pervious pavement and/or an addition of a rain garden or bioswale.

Case Study Highlight

Ventura Watershed

Instream Flow Enhancement and Water Resilience Regional Framework



WATERSHED ACTION TOOLKIT CATALOG

Cov MCB Middle Conservation Baard

VENTURA RIVER INSTREAM FLOW ENHANCEMENT & WATER RESILIENCE FRAMEWORK













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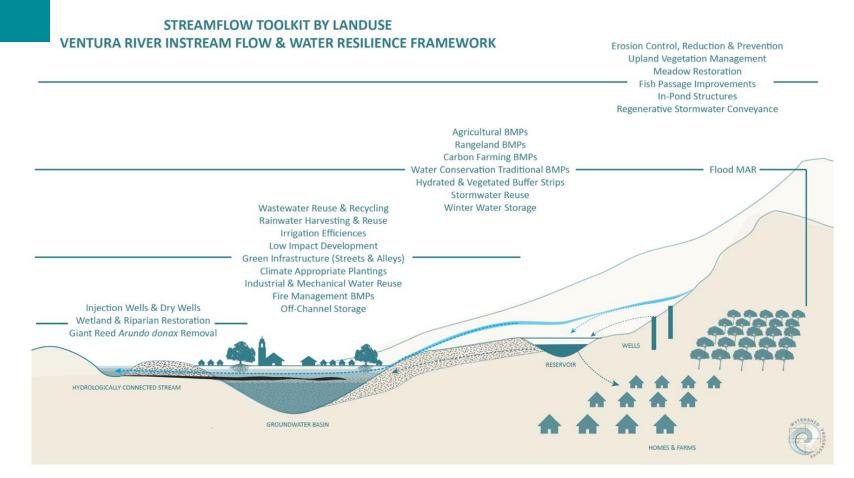
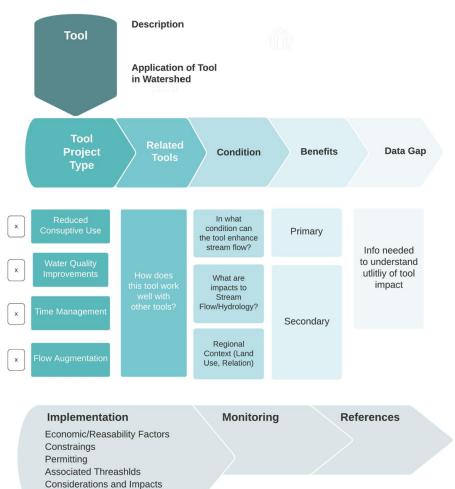


Fig.1: Streamflow toolkit by land-use shows what project types can be used throughout landscapes at a watershed scale to benefit and enhance stream flow for the Ventura River Instream Flow Enhancement and Water Resilience Framework.

Looking for a Tool to Enhance Streamflow? How To Use This Document

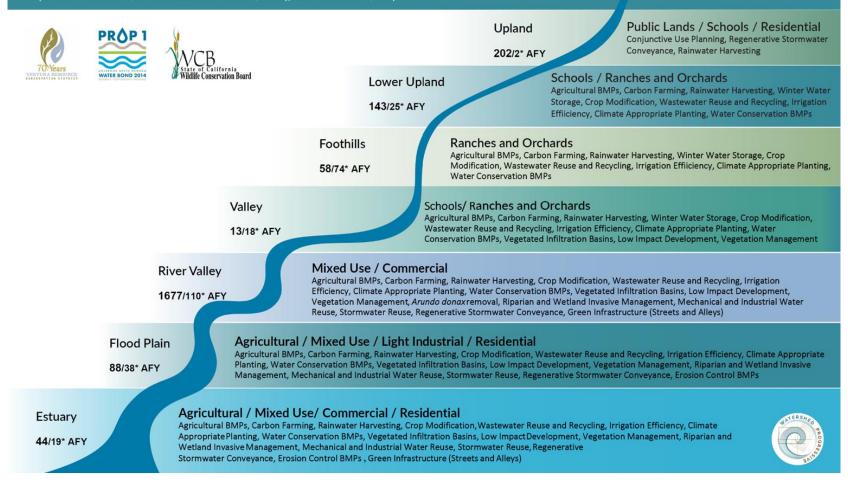
Community Engagement



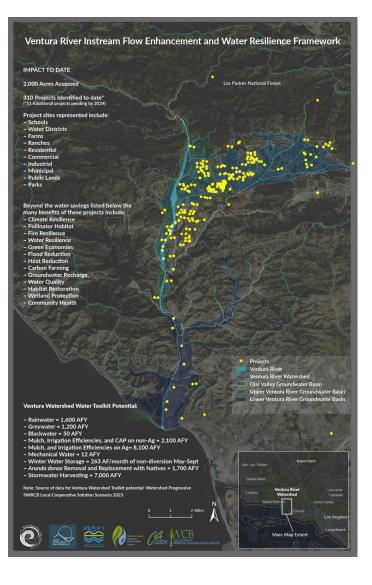
action toolkit

Ventura River Instream Flow & Water Resilience Framework

Task 3 Planning Final Report 2019-2022 Reported in Potential Quantified 2223 AFY Water Quantity/ 285 AFY Water Quality*



2021-2023



CLIMATE RESILIENT LANDSCAPE TRANSFORMATION PILOT PROJECT











Project 1

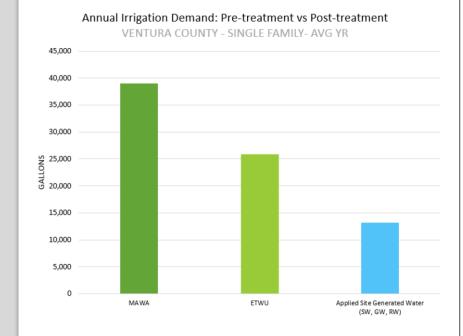
Торіс	Project Description
Project type	Residential
Year completed	2021
Climate/conditio ns	Hot, inland valley, southern exposure.
Primary goal	Water conservation, reduce flooding, streamflow enhancement, demonstration.
Project Benefits	Water conservation, reduced maintenance, native habitat restoration, streamflow enhancement, shade, soil building, food resilience, turf restoration, stormwater runoff, curb appeal, increased property value.
Additional highlights	Fruit trees, Shade Trees. Stormwater capture, rainwater harvesting, greywater, turf conversion, more stormwater, rainwater potential to offset in future.

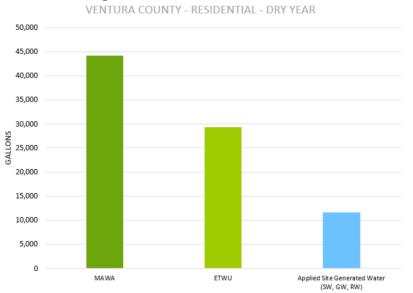


Project 1: Ventura County Residential

Project	Project type (Res or CII)	Area (sq ft)	ETo (in/yr)	Peff (in/yr)	Plant Factor (PF)	Irrigation Efficiency (IE)
No. 1	Residential	3,599	53.04	21.26	0.40	0.81

Maximum Ap Allowa		Estimated Total Water Use		Applied Supplier-delivered Water		Applied Site-generated Water	
Gallons	ETAF	Gallons	ETAF	Gallons	ETAF	Gallon s	ETAF
39,013	0.55	25,921	0.37	12,679	0.18	13,242	0.19





Annual Irrigation Demand: Pre-treatment vs Post-treatment

Project 2

Торіс	Project Description			
Project type	Residential			
Year completed	2013			
Climate	Over 118 days over 85 degrees, southern exposure.			
Maintenance Costs	\$950/year- owner provided-labor.			
Project Benefits	Water conservation, water security, reduced maintenance, native habitat restoration, shade, soil building, stormwater runoff, recreation, food resilience, fire mosaic landscaping, increased property value.			
Additional highlights	Four aspen mini-forests, herb and culinary garden. Stormwater capture, rainwater harvesting, greywater			



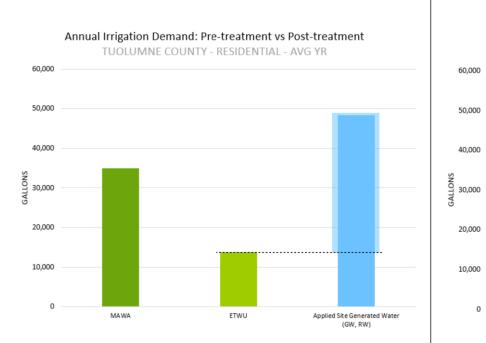


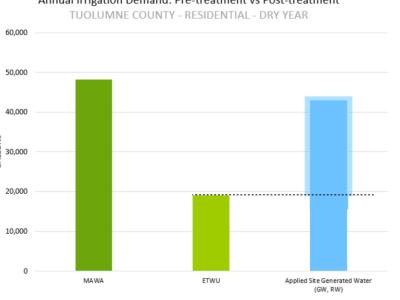


Project 2: Tuolumne Residential

Project	Project type (Res or CII)	Area (sq ft)	ETo (in/yr)	Peff (in/yr)	Plant Factor (PF)	Irrigation Efficiency (IE)
No. 2	Residential	5,686	53.04	34.71	0.24	0.81

Maximum Ap Allowa		Estimated Total Water Use		Applied Supplier-delivered Water		Applied Site-generated Water	
Gallons	ETAF	Gallons	ETAF	Gallons	ETAF	Gallon s	ETAF
35,003	0.55	13,780	0.22	0	0.0	13,780	0.22





Annual Irrigation Demand: Pre-treatment vs Post-treatment

Project 3

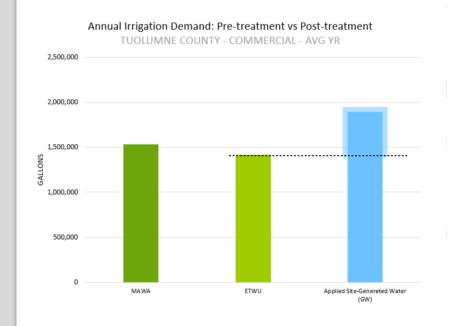
Торіс	Project Description
Project type	CII
Year completed	2009-12
Installation Costs	\$3,200 per cabin, 70 cabins
Maintenance Costs	\$3,800/year
Project Benefits	Water conservation (dry wells) fire resilience, habitat restoration, shade, soil building, stormwater runoff, curb appeal, increased property value, recreational use, educational.
Additional highlights	During Rim Fire, greywater and mulch treated plantings had 98% survival rate. Potable drip system plantings had 3% survival rate.

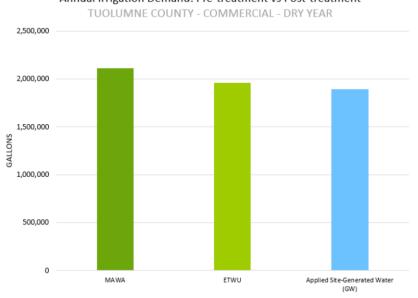


Project 3: Tuolumne Commercial

Project	Project type (Res or CII)	Area (sq ft)	ETo (in/yr)	Peff (in/yr)	Plant Factor (PF)	Irrigation Efficiency (IE)
No. 3	CII	303,327	53.04	34.71	0.40	0.71

Maximum Ap Allowa				Applied Supplier-delivered Water		Applied Site-generated Water	
Gallons	ETAF	Gallons	ETAF	Gallons	ETAF	Gallons	ETAF
1,534,221	0.45	1,421,375	0.42	0.00	0.00	1,421,375	0.42





Annual Irrigation Demand: Pre-treatment vs Post-treatment

Project 4

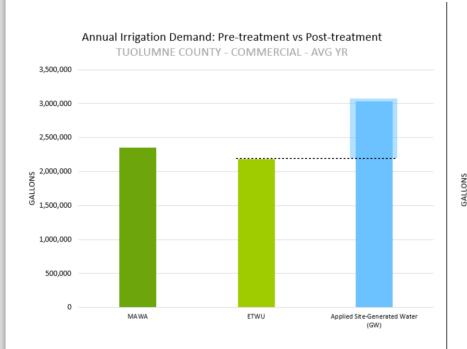
Торіс	Project Description
Project type	CII
Year completed	2015
Installation Costs	\$112,000
Maintenance Costs	\$12,000/year
Project Benefits	Water conservation/security, fire restoration and resilience, habitat restoration, shade, soil building, stormwater runoff, curb appeal, increased property value, recreational use, educational.
Additional highlights	Compacted, dehydrated disturbed soils were remediated through fast growing, shade providing riparian hard and softwoods with high plant moisture index. A hydrated buffer strip of big leaf maple and other riparian vegetation was installed on the perimeter of the project protect the site after a fire during construction, as well as to create soil building, habitat restoration and carbon sequestration.

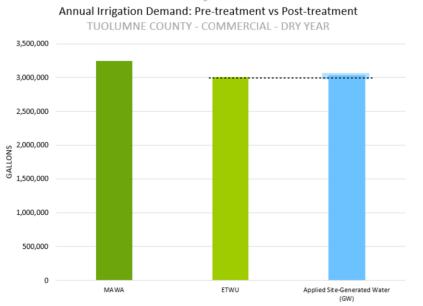


Project 4: Tuolumne Commercial

Project	Project type (Res or CII)	Area (sq ft)	ETo (in/yr)	Peff (in/yr)	Plant Factor (PF)	Irrigation Efficiency (IE)
No. 4	CII	460,500	53.04	34.71	0.40	0.71

Maximum Ap Allowa			Applied Supplier-delivered Water		Applied Site-generated Water		
Gallons	ETAF	Gallons	ETAF	Gallons	ETAF	Gallons	ETAF
2,355,029	0.45	2,181,811	0.42	0.00	0.00	2,181,811	.42





Project 5

Торіс	Project Description						
Project type	Institutional						
Year completed	2016						
Climate/conditions	Hot, inland valley, Diablo clay, southern exposure						
Primary goal	Reduce flooding, streamflow enhancement, demonstration.						
Project Benefits	Water conservation, reduced structural flooding, reduced maintenance, native habitat restoration, streamflow enhancement (quality/quantity), shade, soil building, stormwater runoff, pollinator corridor, demonstration and on-job training.						
Additional highlights	Sycamore forests, community school food garden. Stormwater capture, rainwater harvesting, mechanical water reuse, greywater. Frequent flooding prior to installation. No flooding after installation, including during 2022-23 winter stormevents.						





Project 5: San Luis Obispo Institutional

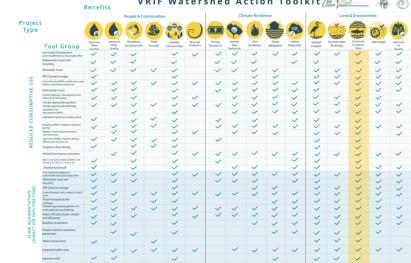
Project	Project type (Res or CII)	Area (sq ft)	ETo (in/yr)	Peff (in/yr)	Plant Factor (PF)	Irrigation Efficiency (IE)
No. 3	CII	43,347	51.47	10.41	0.23	0.81

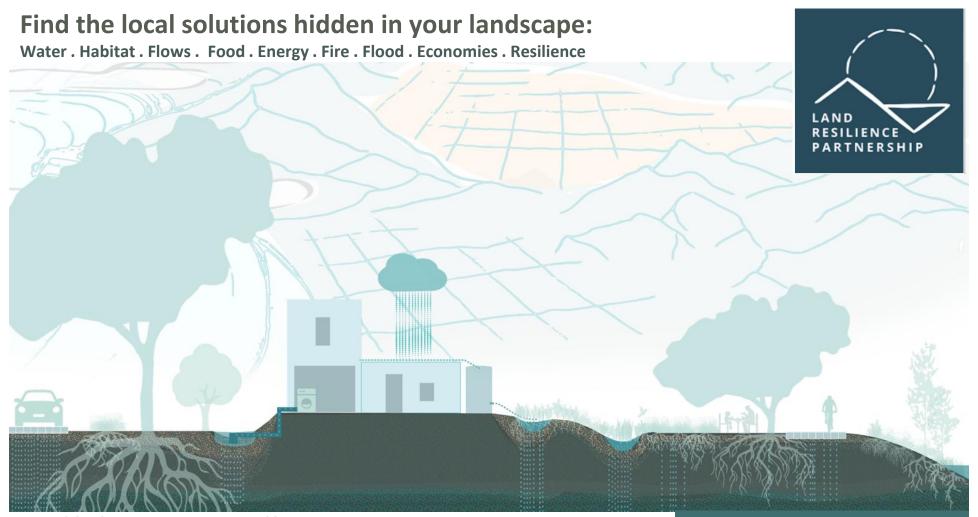
Maximum Ap Allowa	•	Estimated To	tal Water Use	Applie Supplier-de Wate	livered	Applied Site-generated Water		
Gallons	ETAF	Gallons	ETAF	Gallons	ETAF	Gallon s	ETAF	
496,572	0.45	232,878	0.21	0.00	0.0	232,87 8	0.21	



	Benefi	its	V	RIF	Wa	ter	s h e	d A	ctio	n T	001	kit ₍		B Conservation Boar		- O
			People & Co	ommuniti	es	Climate Resilience					Land & Environment					
Tool Group	Improved Water Security	Improved Water Quality	Workforce Development	Food Security	Healthy Communities	Beauty & Aesthetics	Energy Resilience	Extreme Heat Reduction	Fire Resilience	Flood Mitigation	Carbon Reduction	Habitat Creation	Groundwater Recharge	Enhanced In-Stream Flows	Soil Health	Improved Air Quality
Low Impact Development: curb modifications, bioswales, filter	~	~	~		~	~	~	~	~	\checkmark	~	~	~	~	~	~
Wastewater reuse and recycling	~	~	~		~		~	~	~		~	~		~	~	~
Rainwater reuse	~	~	~	~	~		~	~	~	~		~	~	~	~	~

VRIF Watershed Action Toolkit 🖽 🔐 📀





Need help getting started? Contact your local direct install program or contact LANDresiliencePARTNERSHIP.org



Thank you.

Regina Hirsch Watershed Progressive | executive director regina@h2oprogressive.com 209.206.2234 | watershedprogressive.com



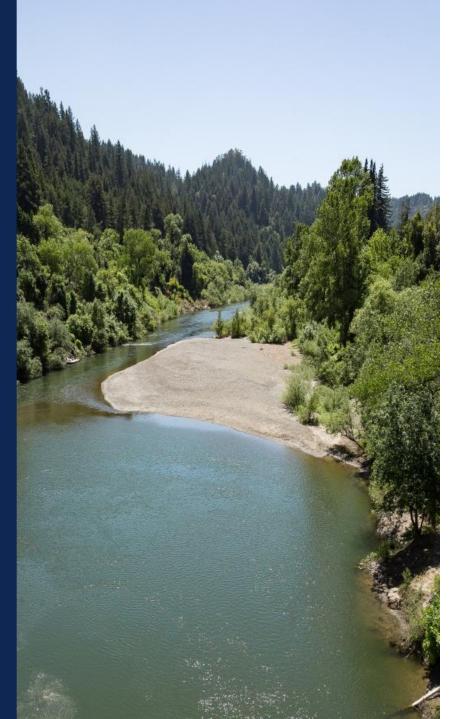
SERVING THE COMMUNITY SINCE 1949

The Partnerships that Changed Perspectives

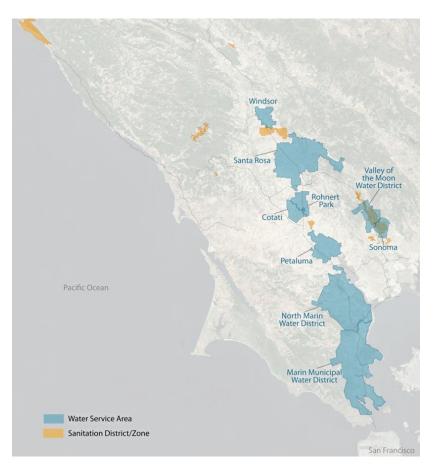
Cultivating Climate-Ready Landscapes

Paul Piazza Water Use Efficiency Manager April 10, 2025

🗗 🕑 🐵 ӣ sonomawater.org



About Sonoma Water



- Special district created by legislature in 1949
- Wholesale water provider to nine cities and special districts
- Serving 600,000 residents in portions of Sonoma and Marin counties
- Core services include water supply, sanitation, and flood protection services

Sonoma-Marin Saving Water Partnership



Formed in 2010 to identify and recommend implementation of water use efficiency projects and maximize the costeffectiveness of water use efficiency programs in our region.

Savingwaterpartnership.org

Sonoma-Marin Saving Water Partnership



Sonoma-Marin Saving Water Partnership

Important partnerships:

- Education
- Non-Profits
- Professional Associations
- Businesses
- Local agencies



What helped make this possible?

- The Leadership Institute for **Ecology and the Economy**
 - Cofounded in 2000 by Rick Theis and Carolyn Johnson
 - Educate community leaders to create public policy that balances environmental and social justice with economic interests for a sustainable community
 - Business, Nonprofits, Elected Officials, and Agency Fellows





· Center for Climate Protection, Woody

Hastings, Laurie-Ann Barbour

Community Organizer, Annie Dobbs-

· Daily Acts, Trathen Heckman, Kerry

· Farmers Guild/CAFF, Evan Wild

· Greenbelt Alliance, Teri Shore

National Parks Conservation

Association, Ron Sundernill

· Petaluma Bounty, Suzi Grady

Elizabeth Whitine · Right to the City Alliance, Davin

Dadko

Cooper

Wells

Batlar

Denny Rosatti

Michalowsk

Wendy Ellot

Bañuelos

· Regenerative Organic Alliance,

SEIU Local 1000, Daniel Solnit
 SEIU 1021, Maria Peluso

Sonoma County Resource

· Sonoma Food Runners, June

· Social Advocates for Youth, Serene

Sonoma County Conservation Action.

· Federated Indians of Graton

Rancherla, Jenna Brager

Nonprofit Fellows

Kramer

Business Fellow

· Alvarado Street Bakery, Greg

- · Amy's Kitchen, Paul Schlefer Betla Rosa Coffee Company, Nica Poznanovich bio365, Deborah Grace Kraft Blue Barrel Rainwater Catchment Systems, Jesse (Froehlich) Savou CamelBak, Kelsey Metzler · Clear Blue Commercial, Carolyn Pistone Community Soll, Paolo Tantarell Dry Creek Vineyard, Don Wallace Equity First Consulting, Ana Luce Fisher Town Design, Lois Fisher · First Community Bank, Janet Connors First Light Farm, Jesse Pizzitola Friedman's Home Improvement, Rebecca Bautista
- · Global Genesis, Terry Taylor Green Mary Zero Waste Events, Mary
- Manut
- Guayaki, Lucia Abaunza, Kim Fetzer, Janal Cruz
- · Jackson Family Wines, Aaron
- · Keysight Technologies, Claire McCarthy
- · Kindred Fair Trade, Julie Montgomery
- LIFT Economy Partner, Erin Axelrod · Protected Investors of America, Judy
- Withee · Puentes Consulting, Stephanie
- SHARE Exchange Cooperative, Kelley Rajala
- Solar Works, Laura Goldman
- SomaRosa Farms, Deanna McKenzie
 Sonic, Lincoln Miller Sonoma Clean Power, Cordel
- Sonoma Mountain Village, Tina
- Montgomery Vanguard Properties, Amee Sas
- Ventana Latina, Evelina Molina
- World Centric, Janae Lloyd
- Sonoma Ecology Center, Raymond
- Janssen, Kathryn Gerber, Steve Rabinowitsh, David Llebman · Sonoma Land Trust, Sheri Cardo,
- Sonoma State University Commun Partnerships Coordinator, Caroline
- Transition US, Carolyn Staytor
- · UFCW Western States Council, Amber
- Parrish Baur Westminster Woods, Jessica Barry
 - · Womens Earth Alliance, Arielle

McGuire, Rebecca Wachsberg Sonoma County Supervisor, Sus Gorin Environmental Protection Agency Julie Mitazzo

Elected Official and Agency Fellows

Assemblymember, Jim Wood

Allen

Noreen Evans

· Former Assemblymember, Michael

Former Assemblywoman Senator

and Santa Rosa City Council Membe

Chief of Staff for State Senator Mike

- GoLocal, Janeen Murray
 Graton Day Labor Center, Juan Bernal CalEPA, Tom Lanphar
 Prior City of Petaluma Vice Mayor,

 - bechel Lunar (201 · City of Santa Rosa Councilman, Chris
 - City of Santa Rosa Councilman, Dick.
- Santa Rosa Chamber of Commerce CEO, Peter Rumble · City of Santa Rosa Councilman, John · Santa Rosa Community Health, Beth
 - · Prior City of Santa Rosa
 - Councilwoman, Julie Comb City of Cloverdaie Councilwoman
 - Melanie Bagby
 - City of Sebastopol Councilwoman Sarah Glade Gumey
 - City of Sebastopol Councilwoman Una Glass
- Conservation District, Valarie Minton · Sonoma County Trails Council, Ken · Prior City of Rohnert Park
 - Councilman, Jake MacKenzie Town of Windsor Councilwoman, Deb
 - · County of Sonoma Energy and Sustainability Department, Liz Yager, BC Capps
 - Santa Rosa Junior College, Kyra
 - Shift Health Accelerator, len Lev
 - · Sonoma Water, Grant Davis, Susan Havdon, Candace Messner
 - Sonoma County Department of Health Services, 777
 - Sonoma County Transit Authority & **Regional Climate Protection**
 - Authority, Tanya Narath US State Department, Jennifer

What came out of it?

 2006 Carbon Free Water goal by Sonoma Water (achieved 2015)



- 2009 Sonoma County Regional Climate Protection Authority (RCPA)
- 2010 Sonoma-Marin Saving Water Partnership



- 2012 Sonoma Clean Power (local community choice^{**} aggregator)
- 2019 Resolution declaring a climate emergenc
- 2021 Sonoma Water Climate Adaptation Plan
- 2022 RCPA designated California's first "Climate Resilience District" - SB 852 (Dodd)
- Sonoma Clean Power

How it relates to CRLs

- Climate change is here
- Unified leadership helps prioritize appropriate funding and staff support for programs and collective actions
- Solutions should build in multiple benefits for resilience, so collaboration is key to success
- Rapid adoption of climate-ready landscapes requires good data to inform opportunities to focus customer education and resources
- Spur customer action through partner networks



Summary: Partnerships Matter

- Good data informs good decisions, but people do the work
- Identify and connect with cross sector climate champions (diversity of people & organizations)
- Leaders can benefit from leadership training
- Grow and empower change-maker networks
- Cultivate collaborative solutions



SERVING THE COMMUNITY SINCE 1949

Paul Piazza paul.piazza@scwa.ca.gov

f ♥ fi sonomawater.org

The Power of Community Partnerships



A Localized Approach to Building Resilience



Community Education & Public Awareness Providing free hands-on talks, tours and workshops that inspire and empower residents to take action.

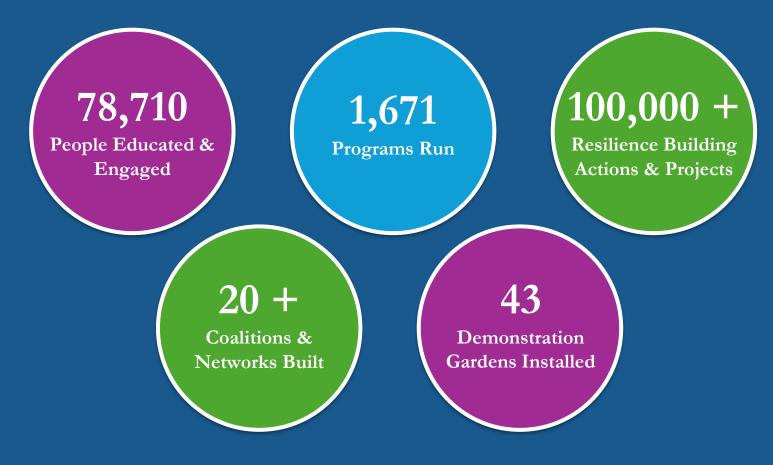


Community Mobilization & Design/Install Installing dozens of demonstration gardens across schools, parks and residences, mobilizing community.



Civic Policy & Program Approaches Helping innovate and implement new policy and program approaches to spread these accessible solutions.

24 Years of Collaborative Action



Innovative Partnerships in Times of Crisis





SONOMA COUNTY NATURAL & WORKING LANDS

Just and Resilient

grassroots action by Another World is Possible

Free Landscape Design Templates 43% of 504 rebuild plans based off templates



Outstanding Public Engagement Award



City of Petaluma



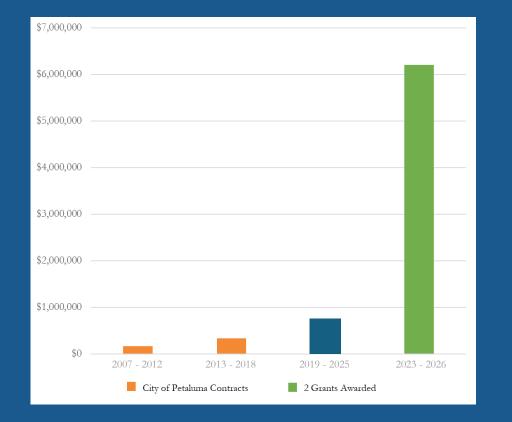








Non-profit Partnerships, A Good Investment

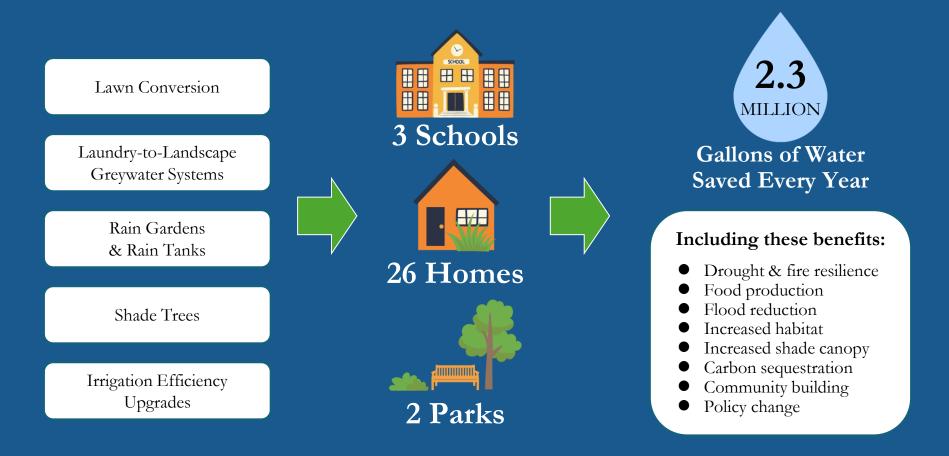


- We received 1.3 million in contracts in the last 19 years from the City of Petaluma for programs.
- In 2023, we received 2 grants worth 6.2 million.
- That's a significant return on investment!

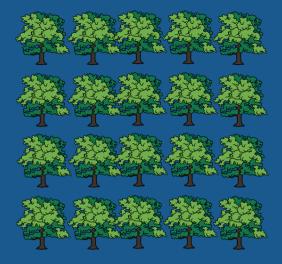
The Land Resilience Partnership 64 Installations at Schools, Parks and Residences



The Land Resilience Partnership Program



Annual Carbon Sequestration = 4,300 lbs. CO2 or 2 tons! This also looks like...



The sequestration power of 20 mature oak trees



Driving around the world





Our electricity usage for the past 3.5 years

Scaling Potential





Trathen Heckman Founder & Executive Director



trathen@dailyacts.org 707.789.9664 (office) www.dailyacts.org