Urban Land Institute

Water Wise Development Coalition

Marianne Eppig, Sr. Director of Resilience, ULI

December 6, 2023

Water Wise Development Coalition

Intro for newbies!

- **Who:** ULI, in partnership with the Alliance for Water Efficiency, the Sonoran Institute, and the WaterNow Alliance, is convening land use and real estate professionals with policymakers and decision-makers. This coalition is supported by the Colorado Water Conservation Board.
- **What:** Advancing water-smart real estate development and supportive policies.
- **When & Where:** Quarterly virtual meetings.
- **How:** Participants will have a say in meeting topics, speakers, and efforts.

Urban Land Institute

Agenda

- Welcome and Overview (5 min)
- Water Wise Landscape Codes & Resources Presentations and Q&A (60 min: 10 min presentation & 10 min Q&A each)
  - **Paul Lander, Adjunct Professor at University of Colorado-Boulder**, on his research related to water-wise landscape ordinances for the Lincoln Institute of Land Policy
  - **Paul Piazza, Principal Programs Specialist for Sonoma County Water Agency,** on water-wise and fire-wise landscape design templates, guidance, and policies
  - **Cassy Aoyagi, President of FormLA Landscaping,** on the implementation of water-wise landscaping and how that implementation interfaces with state and local water-wise landscaping ordinances
- Group Discussion about landscape ordinance, template, and implementation resources (25 min)

Urban Land Institute

BABBITT CENTER
FOR LAND AND WATER POLICY
A Center of the Lincoln Institute of Land Policy

Helping urban planners and water managers direct the change needed for creating climate-adapted urban landscapes

Paul W. Lander with Mary Ann Dickinson May 2023

Executive Summary

1. Know Your Frames
   Bioregion Codes and Regulations

2. Update all Codes now
   Applicability
   Definitions
   Professionalism

3. Create, and Engage Your Team
   Planning Staff Public Works, Utilities, Water Quality Staff Parks, Arborists Landscape Professionals Extension Service

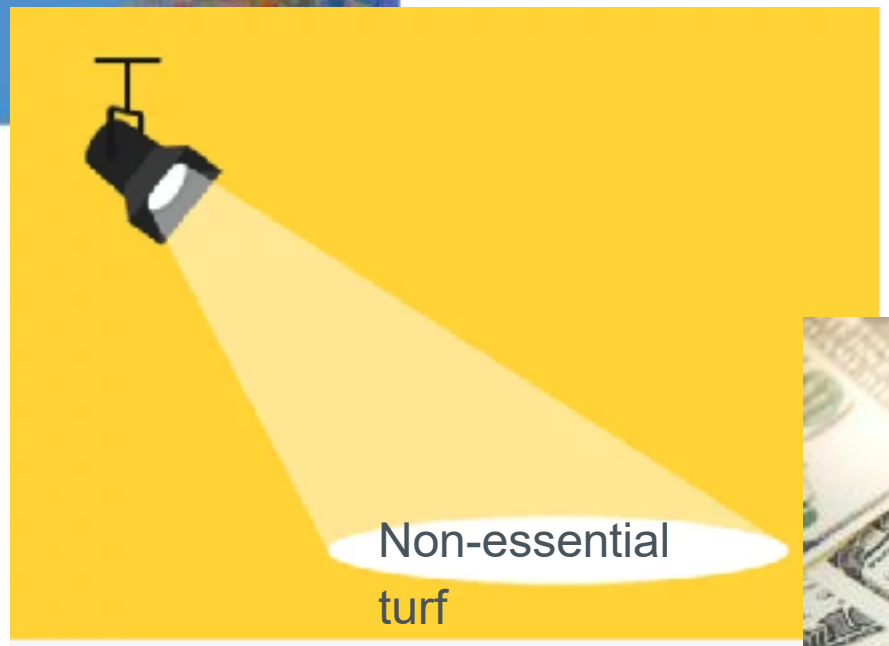
4. Utilize Adaptive Management
   Measure to Manage

Why Now?

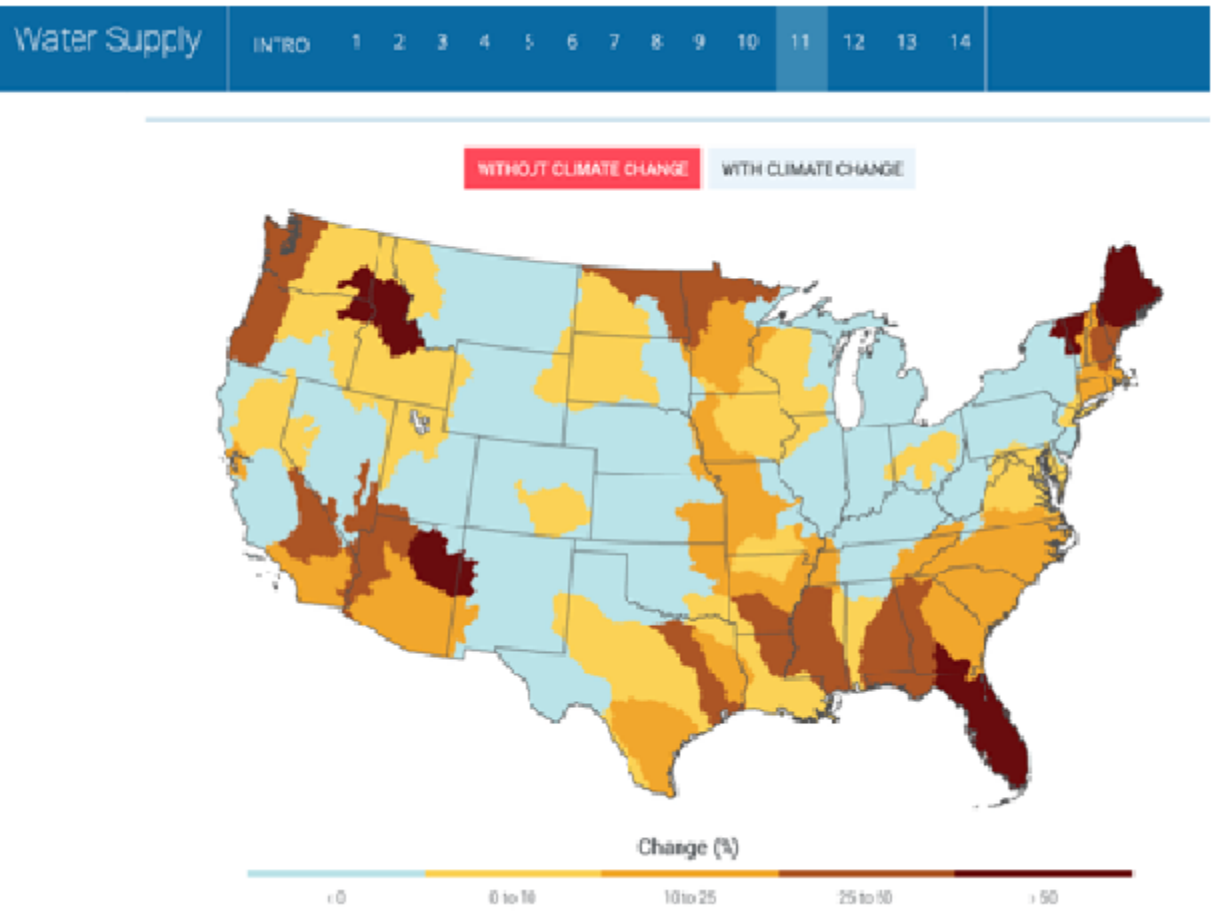
1. Recognizing need for Climate Adaptation

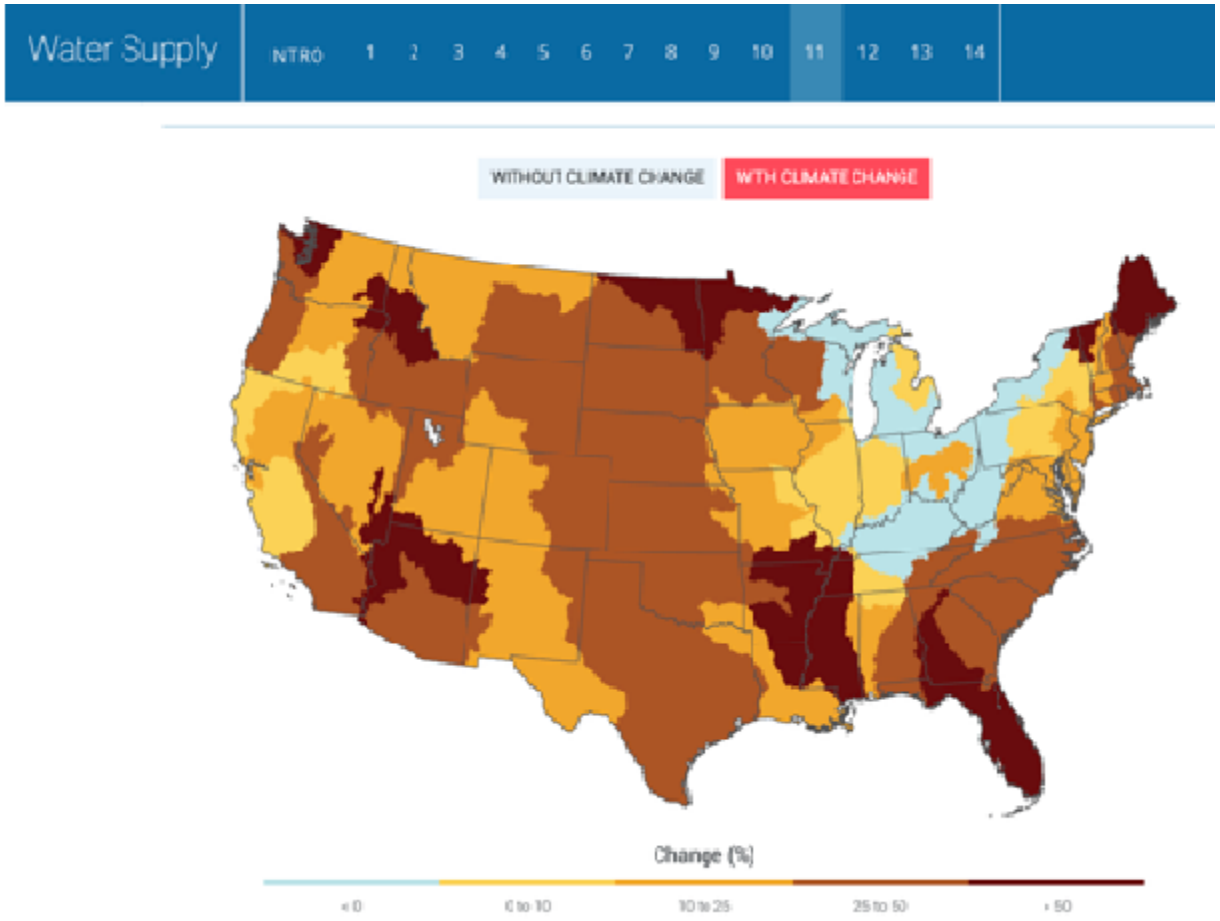
2. Policy spotlight on urban landscapes

3. Large infusion of money from states, water providers, and federal government



CA Water Providers $100s of Millions State of Colorado $2 Million State of Utah $ 5 Million



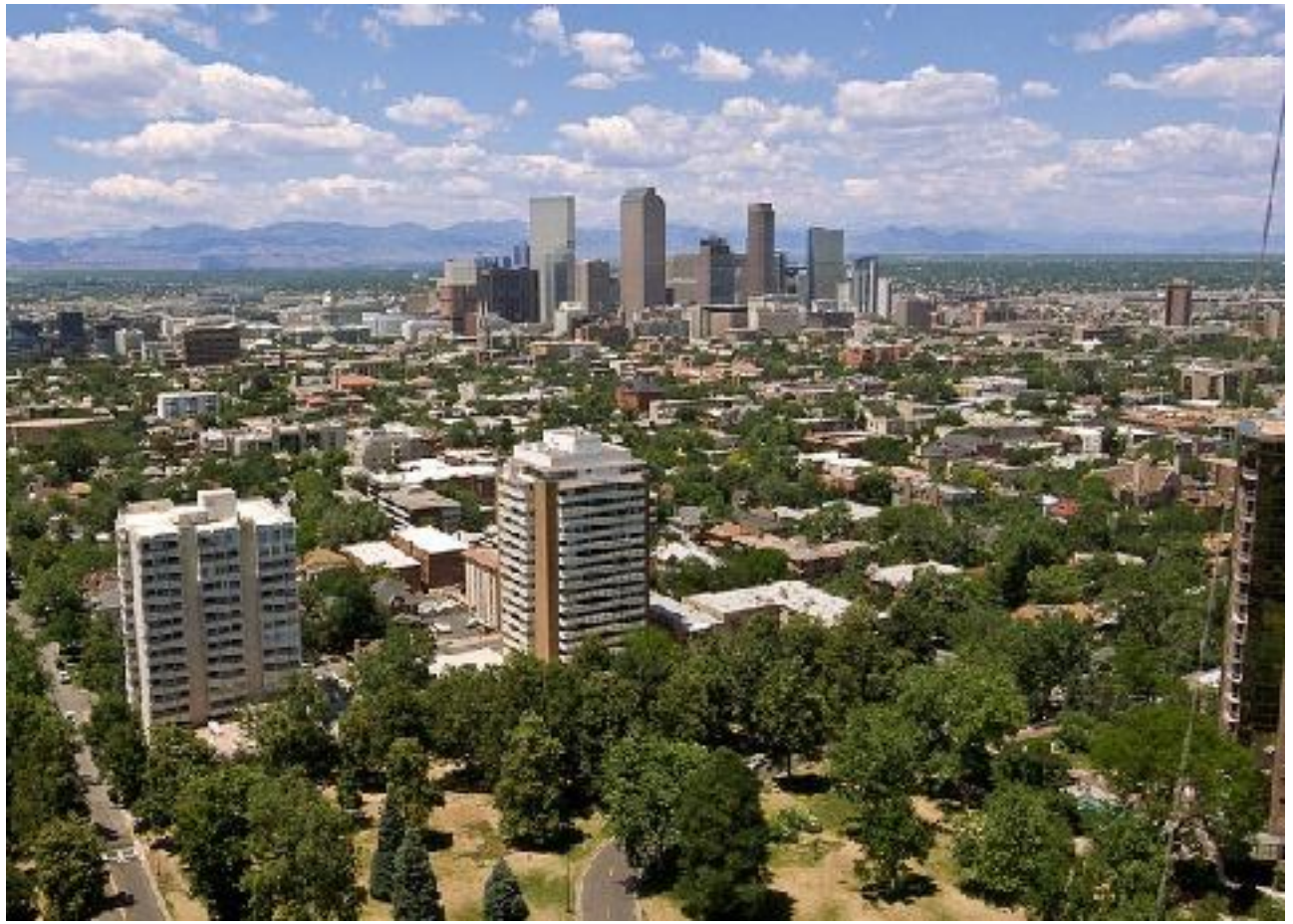


3rd National Climate Assessment, 2014.

Decreased Public Health

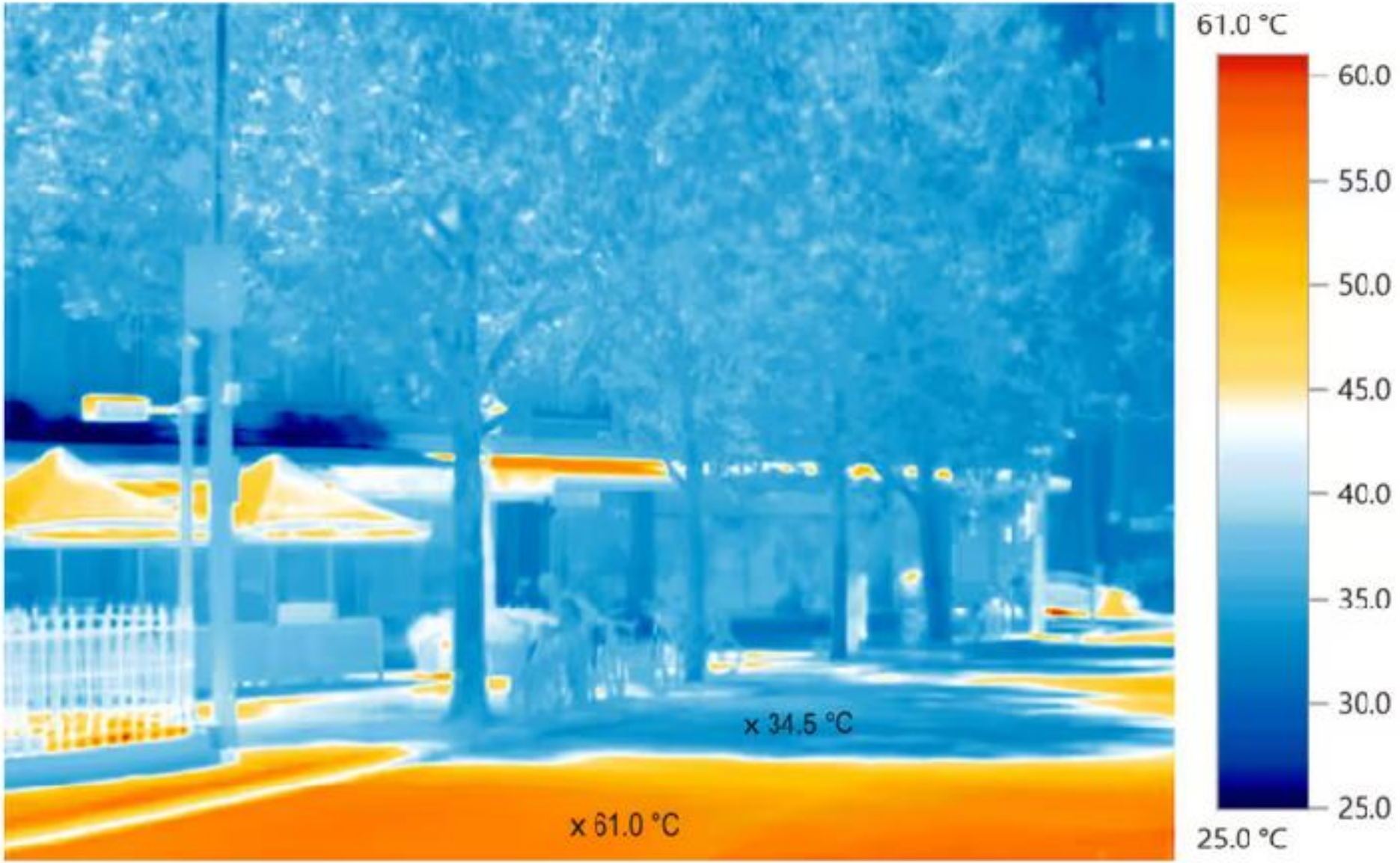
Increased Water Use

Increased Heat



Increased Runoff

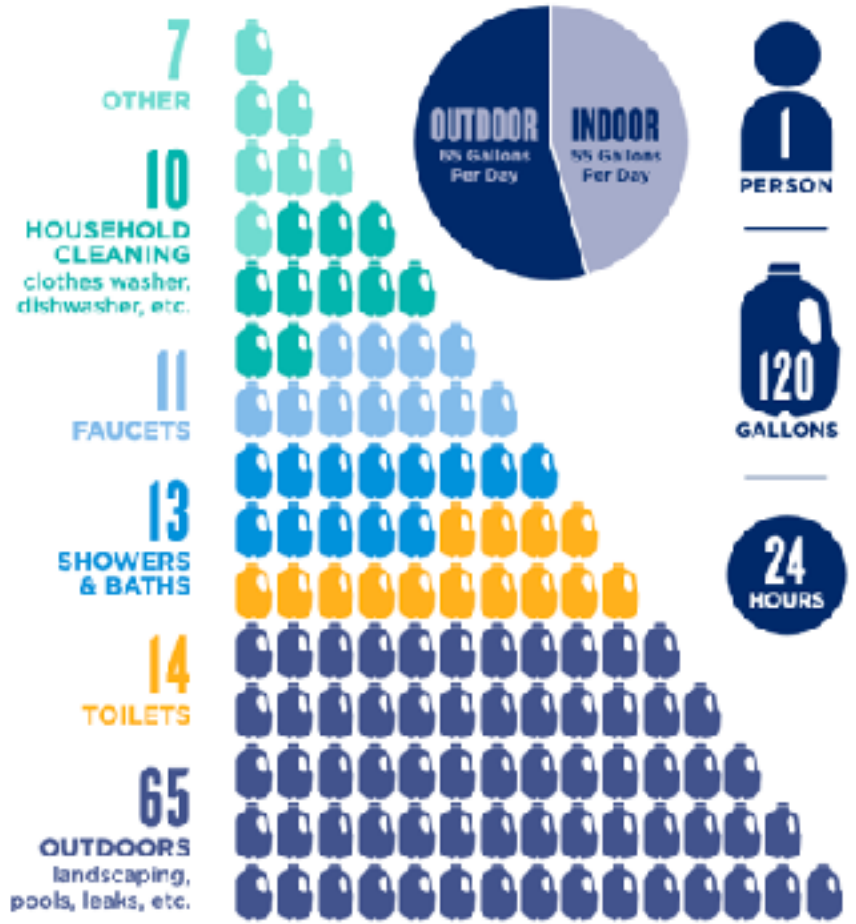
Decreased Habitat



Thermal images taken in a January 2017 heatwave show the impact of urban heat islands in Melbourne. Taken by an Elizabeth Street heat camera opposite Queen Victoria Market. Photograph: City of Melbourne

The Guardian, 2017

AVERAGE DAILY WATER USAGE



GALLONS USED THIS MONTH ÷ NUMBER OF PEOPLE ÷ DAYS IN THE MONTH = GALLONS PER PERSON PER DAY (GPD)

WATER USE IT WISELY

WaterUseItWisely.com

Adapted from the Water Research Foundation's Residential End Uses of Water, Version 2 Executive Report (2016)

Why Now?

1. Recognizing need for Climate Adaptation
2. Policy spotlight on urban landscapes
3. Large infusion of money from states, water providers, and federal government

CA Water Providers $100s of Millions State of Colorado $2 Million State of Utah $ 5 Million

Nevada Legislature: raising the bar

- **Assembly Bill 356** prohibits the use of Colorado River water delivered by Water Authority member agencies to irrigate nonfunctional grass, beginning in 2027.
  - The law was championed by SNWA.
  - It applies to Southern Nevada Water Authority commercial, multi-family, government and other properties.
  - It does not apply to grass in homeowners' yards, cemeteries, or grass used for recreation/sports at schools and parks.
  - The law established an **advisory committee** to help with defining what constitutes "nonfunctional" grass.
  - Potential savings of 18,000 to 20,000 acre-feet

https://www.youtube.com/watch?v=1JpHRe6C2G0

LANDSCAPE ORDINANCE

OVERVIEW OF RESIDENTIAL CHANGES

- No turf in front yards for new homes
- Backyards for new homes no more than 500 square feet of irrigated turf
- ColoradoScape design instead
- Swimming pools and water features will reduce total allowed turf
- Incentivize front yard and backyard landscapes to be installed by home builder

500 square feet of experimental Tahoma Bermuda Grass (super low water using turf) at Castle Rock Water Administration Building

TOWN OF CASTLE ROCK

< 5 >

Trend Watch Communities promoting greater plant diversity, (plants for pollinators) in place of turf-dominated schemes.

Why Now?

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CA Water Providers $100s of Millions State of Colorado $2 Million State of Utah $ 5 Million

California spends $350M to get residents to rip out lawn

Oct31,2016 kcra.com

State of Colorado $ 2 Million

CONCERNING MEASURES TO INCENTIVIZE WATER-WISE LANDSCAPES, AND, IN CONNECTION THEREWITH, CREATING A STATE PROGRAM TO FINANCE THE VOLUNTARY REPLACEMENT OF IRRIGATED TURF AND MAKING AN APPROPRIATION.

Be it enacted by the General Assembly of the State of Colorado:

SECTION 1. In Colorado Revised Statutes, **add** 37-60-135 as follows:

37-60-135. State turf replacement program - creation - administration - turf replacement fund - creation - legislative declaration - definitions - repeal. (1) THE GENERAL ASSEMBLY FINDS AND

HB22-1151

State of Utah $ 5 Million

Enrolled Copy **H.B. 121**

WATER CONSERVATION MODIFICATIONS

2022 GENERAL SESSION

STATE OF UTAH

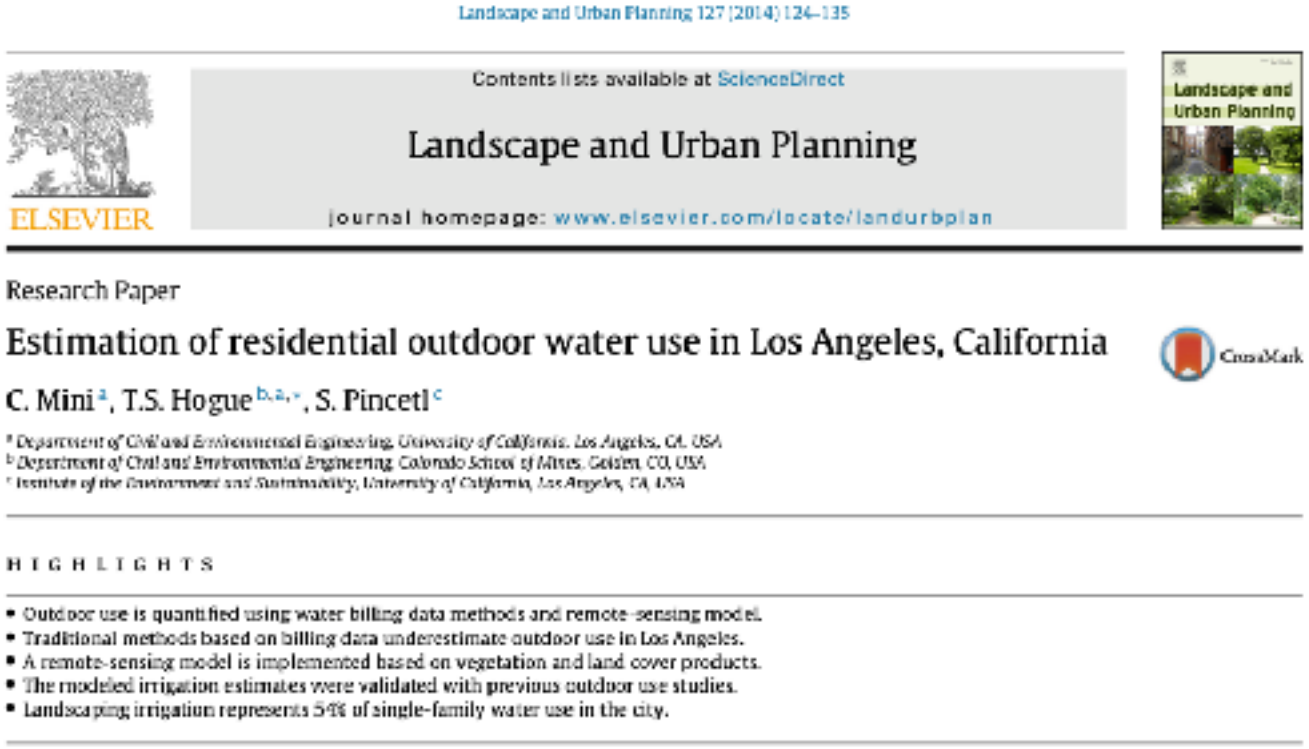
General Description:

This bill modifies provisions related to conservation of water and related provisions regarding lawn or turf.

Highlighted Provisions:

This bill:

- imposes requirements related to water conservation at state government facilities and by state agencies;
- provides for incentives to replace lawn or turf with drought resistant landscaping;
- grants rulemaking authority;



Landscape and Urban Planning 127 (2014) 124–135

Contents lists available at ScienceDirect

Landscape and Urban Planning

journal homepage: www.elsevier.com/locate/landurbplan

Research Paper

Estimation of residential outdoor water use in Los Angeles, California

C. Mini[a], T.S. Hogue[b,a,*], S. Pincetl[c]

[a] Department of Civil and Environmental Engineering, University of California, Los Angeles, CA, USA
[b] Department of Civil and Environmental Engineering, Colorado School of Mines, Golden, CO, USA
[c] Institute of the Environment and Sustainability, University of California, Los Angeles, CA, USA

HIGHLIGHTS

- Outdoor use is quantified using water billing data methods and remote-sensing model.
- Traditional methods based on billing data underestimate outdoor use in Los Angeles.
- A remote-sensing model is implemented based on vegetation and land cover products.
- The modeled irrigation estimates were validated with previous outdoor use studies.
- Landscaping irrigation represents 54% of single-family water use in the city.

> Annotated Bibliography over 130 references

Review of the literature

Physical Elements:
Trees, trees, trees
& shade structures
Native plants Monitoring (site and remote)
Rain gardens
Soil health

Social elements:
update codes now
promote landscape conversion
measure & adapt: water budgets, GIS
integrate with land planning
collaborate with NGOs & community

Review of the legislation

Key Code Elements:

Applicability & Definitions
Professionalism
Performance-based guidelines
Trees, Native Vegetation
Turf
Soil Health & Stormwater
Water Budgets & Irrigation
Hardscapes
Metrics for Active Management

The Urban Ecosystem

of Allied Professionals:

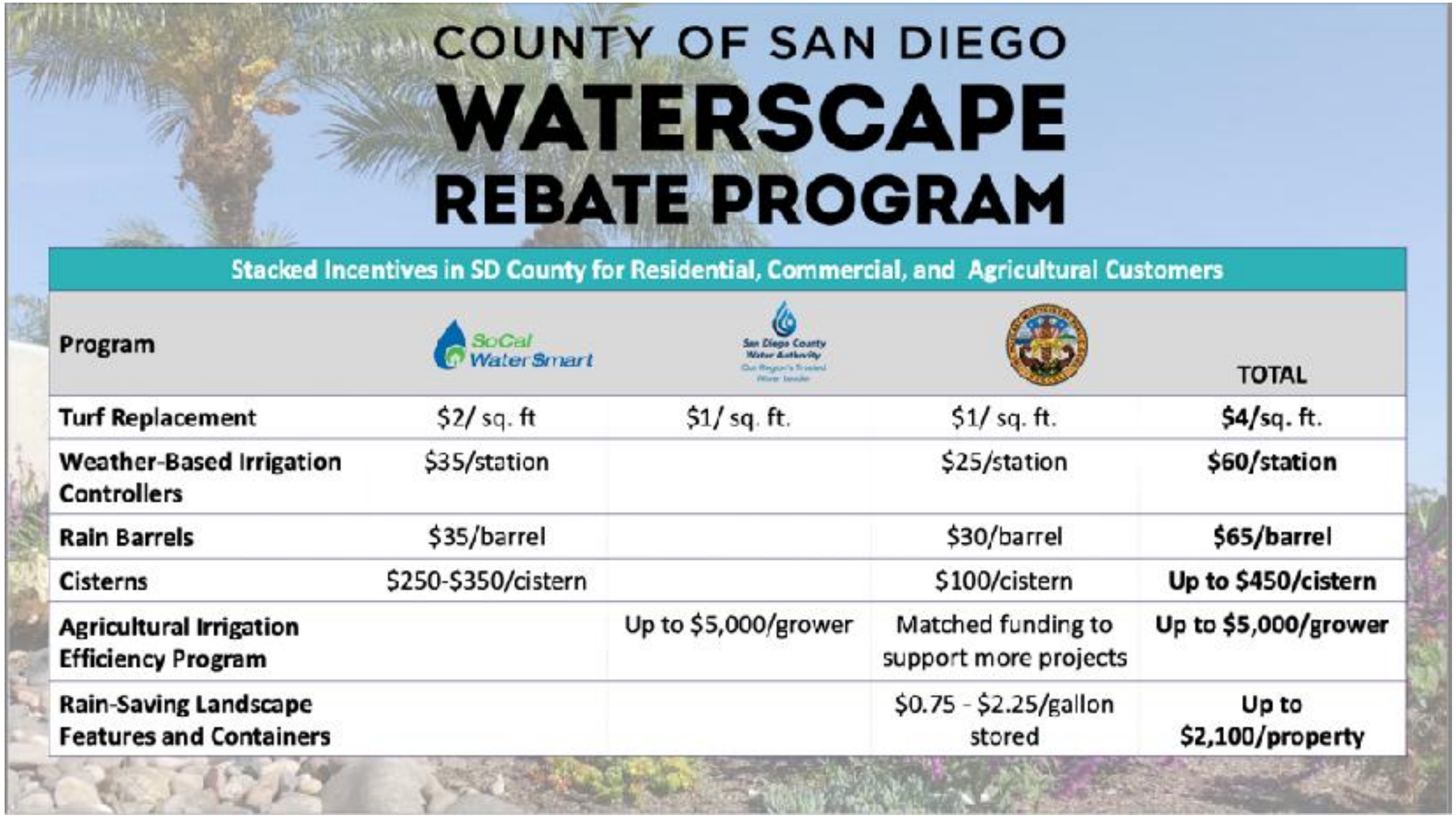
Public Planning,
Public Works-Water,
Stormwater Quality,
Transportation
Parks & Recreation, City Forester
Climate/Heat & Sustainability
Extension Service
Colleges/Universities

Private Landscape Professionals-designers, architects, contractors, master gardeners
NGOs
Property Management & HOAs

Benefits

- Water conservation
- Water quality
- Biodiversity
- Resilience
- Wildlife and pollinator habitat
- Improved mental health with access to nature
- Reduced fertilizer and pesticides
- Reuse Water- Native grasses are more resilient to lower quality irrigation

Denver Parks & Rec, Dec ‘23

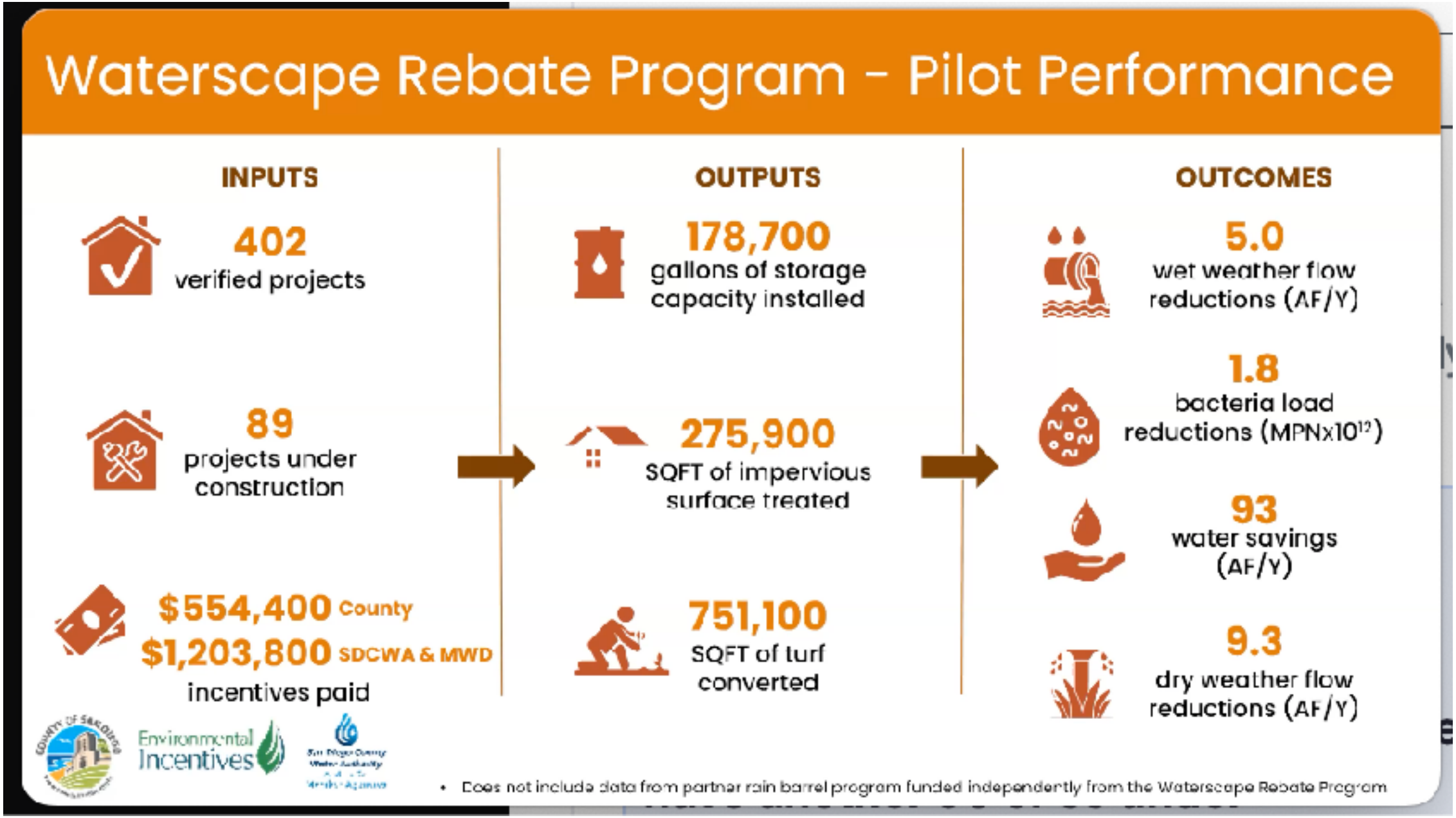


COUNTY OF SAN DIEGO
WATERSCAPE REBATE PROGRAM

Stacked Incentives in SD County for Residential, Commercial, and Agricultural Customers

Program	SoCal WaterSmart	San Diego County Water Authority		TOTAL
Turf Replacement	$2/ sq. ft	$1/ sq. ft.	$1/ sq. ft.	**$4/sq. ft.**
Weather-Based Irrigation Controllers	$35/station		$25/station	**$60/station**
Rain Barrels	$35/barrel		$30/barrel	**$65/barrel**
Cisterns	$250-$350/cistern		$100/cistern	**Up to $450/cistern**
Agricultural Irrigation Efficiency Program		Up to $5,000/grower	Matched funding to support more projects	**Up to $5,000/grower**
Rain-Saving Landscape Features and Containers			$0.75 - $2.25/gallon stored	**Up to $2,100/property**

Chad Praul. 2021. Environmental



Megan Chery, Environmental Incentives, Oct '22

Review from Professionals

Long-term policy needed
owners interested in climate-friendly landscapes
training for Planners
aesthetics are important
invest in skilled workforce
stacked incentives
collaborate with WQ programs
measure to manage

Landscape Preferences:

aesthetics matter

Trend Watch

Aspen, CO requires majority of surface area in plant coverage at maturity.

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Executive Summary

1. Know Your Frames
   Bioregion Codes and Regulations

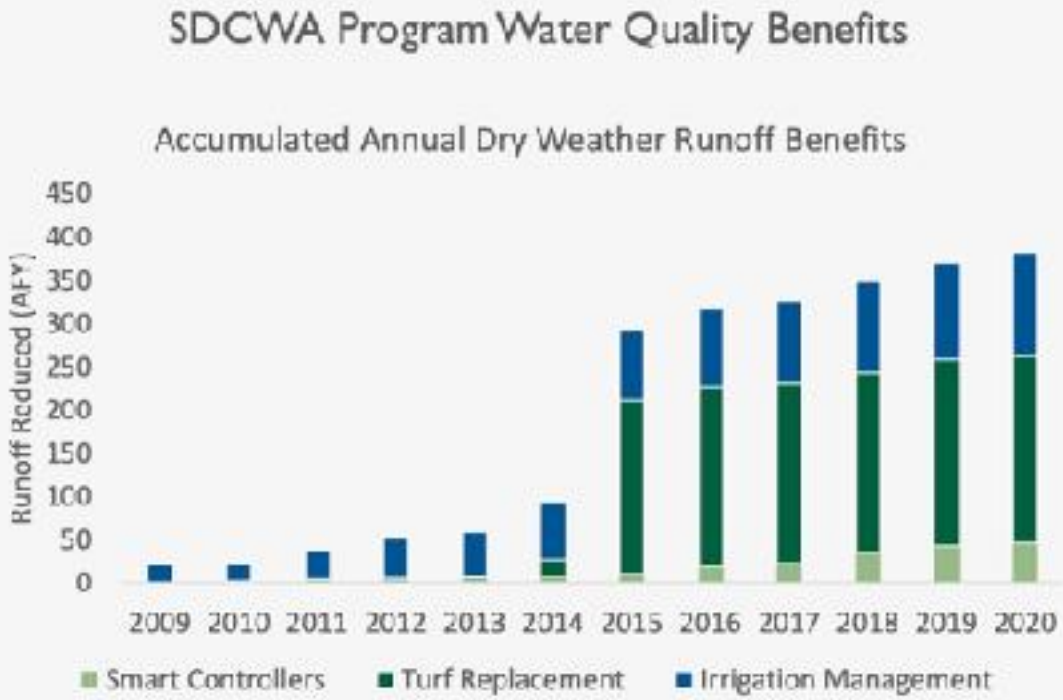
2. Update all Codes now
   Applicability
   Definitions
   Professionalism

3. Create, and Engage Your Team
   Planning Staff Public Works, Utilities, Water Quality Staff Parks, Arborists Landscape Professionals Extension Service

4. Utilize Adaptive Management
   Measure to Manage

STACKED BENEFITS OF SUSTAINABLE LANDSCAPES

- Water Use Reduction
- Dry Weather Flow Reduction
- Wet Weather Flow Reduction
- Bacteria Load Reduction
- Nitrogen Removal
- Phosphorus Removal



Chad Praul. 2021. Environmental Incentives

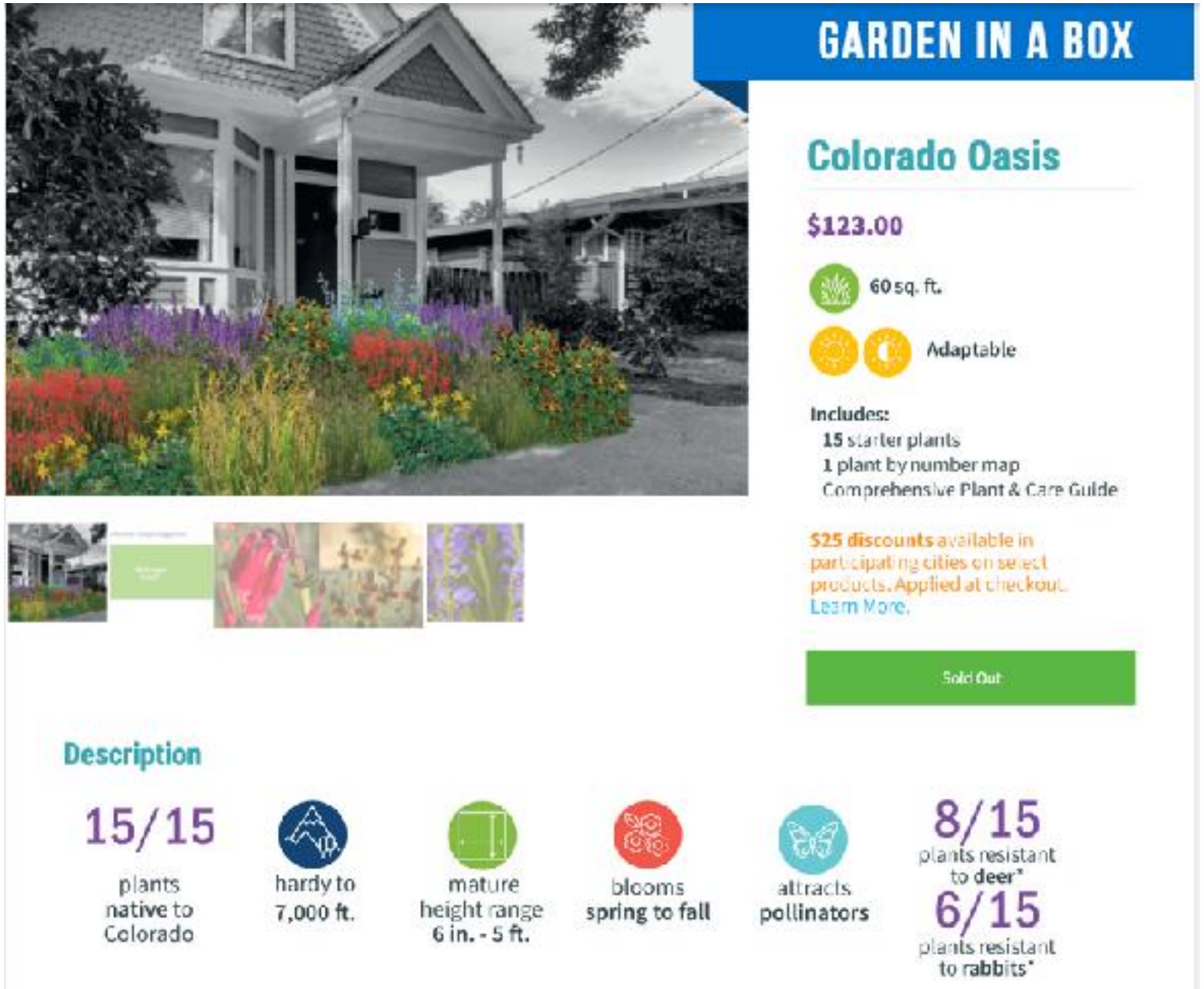
The Urban Ecosystem
of Allied Professionals:

Public Planning,
Public Works-Water,
Stormwater Quality,
Transportation
Parks & Recreation, City Forester
Climate/Heat & Sustainability
Extension Service
Colleges/Universities

Private Landscape Professionals-designers, architects, contractors, master gardeners
NGOs
Property Management & HOAs

Collaboration means greater outcomes. (Anderson, 2020) By stacking incentives, agency programs increase participation and program success. (Alliance for Water Efficiency, 2015)

Collaboration, NGOs, and landscape preference



ReSourceCentral.org
23 Colorado cities in ’22, and over 9400 GIB units

Takeaways for Planners

1. Know Your Frames
   Bioregion Codes and Regulations

2. Update all Codes now
   Applicability
   Definitions
   Professionalism

3. Create, and Engage Your Team
   Planning Staff Public Works, Utilities, Water Quality Staff
   Parks, Arborists
   Landscape Professionals
   Extension Service

4. Utilize Adaptive Management
   Measure to Manage

BABBITT CENTER

Takeaways for Planners

Over 130 specific research citations, reports, and ordinances in the Annotated Bibliography of the full report from the

Lincoln Institute/Babbitt Center.

“Helping urban planners and water managers direct the change needed for creating climate- adapted urban landscapes.”

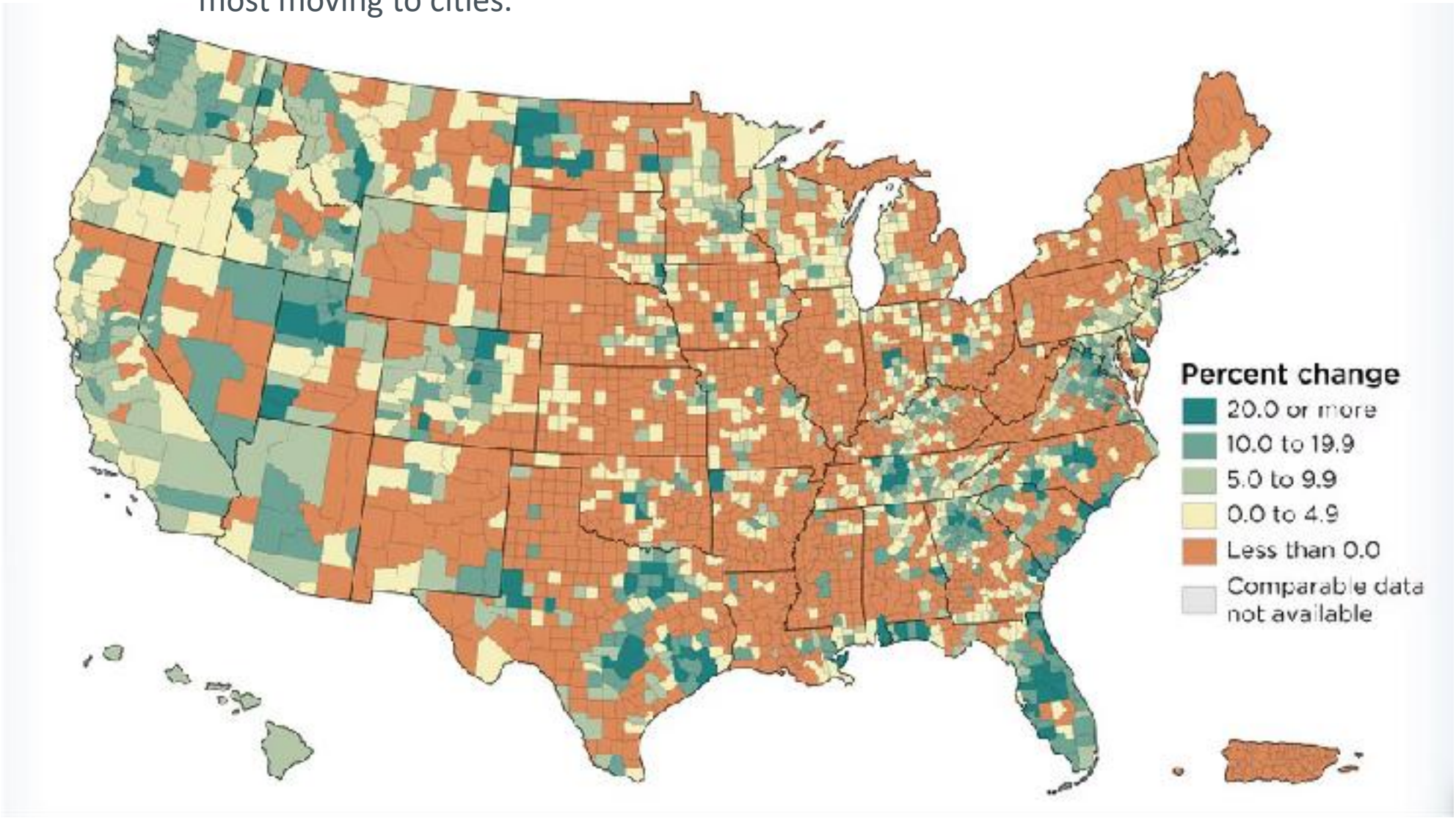
Lander, 2023.

This rain garden is taking advantage of a low area of the yard, slowing and reducing the amount of runoff that reaches the storm drain. Photo: Capitol Region Water District.

Trend Watch

San Diego requires the inclusion of stormwater capture features

Continuing populations growth in regions with limited water supplies, most moving to cities.



census.gov

BABBITT CENTER

Landscape regulation could benefit from more multi-objective collaboration. Larson, 2020.

Key highlights	Results compared to similar analysis using Autocase tool. Compares incremental costs / benefits of gray and GSI scenario.	Results compared to a similar analysis developed using *CNT/American Rivers Guide*.[a].	Incorporates MODA[b] framework that SPU uses to assess GSI project priorities / benefits.	Includes customized property value analysis and analyzes distributed projects.
GSI scenario	Centralized GSI corridor; 4.8 acres of bioretention; 300 trees, large retention pond / wetland system; 10-acres of green space. Stream restoration links development site to recreation/natural area.	Manages 1,265 IA / 1,060 MG of runoff/year through GSI: bioretention (56%); permeable pavement (26%); trees (13%); green roofs (4.5%); RWH (1%).	ROW bioretention projects managing 6 impervious acres; includes 89 trees, pedestrian/safety improvements, and community gathering space.	Nine distributed projects including bioretention, permeable pavement, and underground systems.
Avoided infrastructure		★		★
Avoided maint./replace.		★		★
Energy savings	★	★	★	★
Water supply		★		★
Air quality	★	★	★	★
Heat stress	★	★		
Recreation	★	★	★	
Enhanced aesthetics	★	★	★	★
Green job creation	★	★	★	★
Water quality/habitat	★		★	
Carbon reduction	★	★	★	★
Terrestrial ecosystem	★	★	★	★
Flood risk reduction	★			
Total PV benefits ($M)	$27.9 (GSI); $15.1 (gray); (28-year PV)	$521.8 (50-year PV)	$8.98 (50-year PV)	$5.20 (40-year PV)
Total PV costs ($M)	$21.5 (GSI); 18.8 (gray) (28-year PV)	$241.5	$5.87	3.49
Benefit-cost ratio	1.3 (GSI); 0.8 (gray)	2.16	1.53	1.455

(a) CNT and American Rivers 2010
(b) MODA = Multiple Objective Decision Analysis

Water Research Foundation, 2021.

WATER SMART LANDSCAPE DESIGN TEMPLATES

Paul Piazza

Water Use Efficiency Manager
Sonoma Water
Sonoma-Marin Saving Water Partnership

www.savingwaterpartnership.org

A PROJECT OF THE SONOMA-MARIN SAVING WATER PARTNERSHIP

ABLA

SHERWOOD
DESIGN ENGINEERS

ForeSite
digital mapping solutions

P D G
PANORAMIC DESIGN GROUP
LANDSCAPE ARCHITECTURE

Equinox
LANDSCAPE

Daily Acts

www.savingwaterpartnership.org

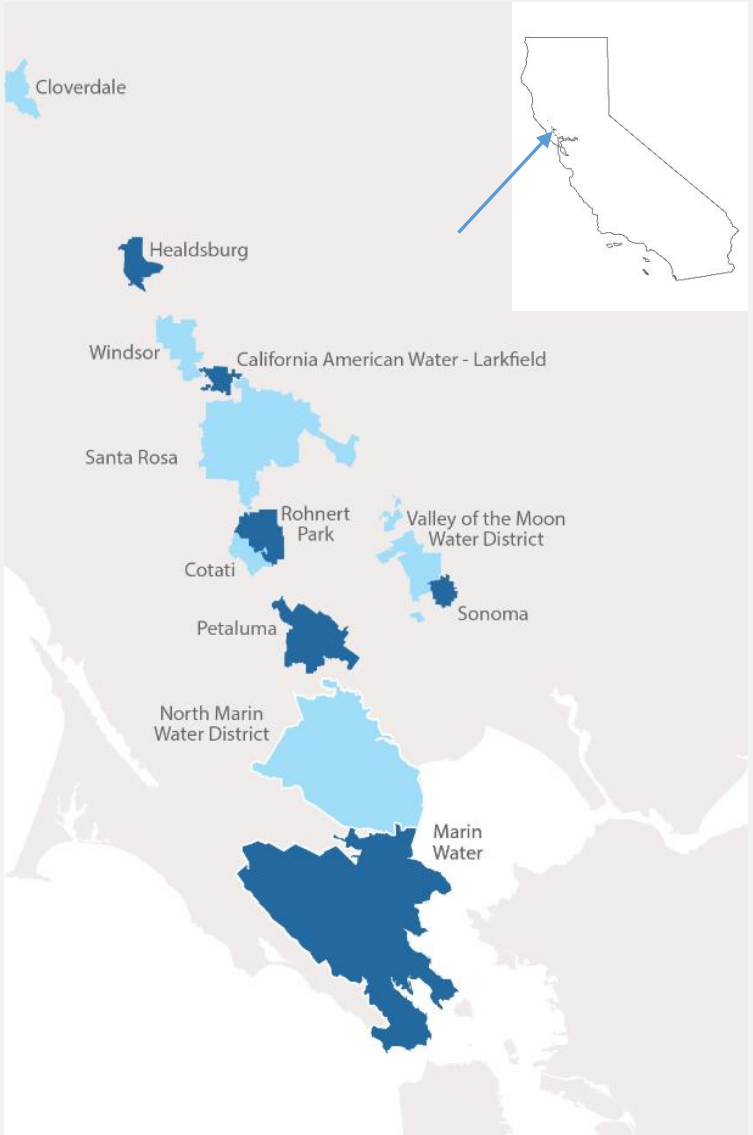
A PROJECT OF THE SONOMA-MARIN SAVING WATER PARTNERSHIP

Key Staff:

- Ann Baker, Ann Baker Landscape Architects
- Carrie Pollard, Water Efficiency Manager, Marin Water
- Sean McNeil, Deputy Director Environmental Services, City of Santa Rosa
- Deb Lane, Water Resources Analyst, City of Santa Rosa
- Gabe Osburn, Deputy Director Development Services, City of Santa Rosa
- Brian Lee, Senior Program Specialist, Sonoma Water
- Kris Loomis, Senior Program Specialist, Sonoma Water

www.savingwaterpartnership.org

Sonoma-Marin Saving Water Partnership Background



- A collaborative of 13 water utilities in Sonoma and Marin Counties
- Formed in 2010 to maximize the cost effectiveness of water conservation in Sonoma and Marin and identify water use efficiency programs
- Regional and coordinated approach

October 2017 Tubbs Fire

- 36,000 acres in Napa, Sonoma, and Lake counties
- 5,600 structures lost, more than half in the City of Santa Rosa
- Santa Rosa losses estimated at 1.2 billion dollars

SONOMA - MARIN SAVING WATER PARTNERSHIP

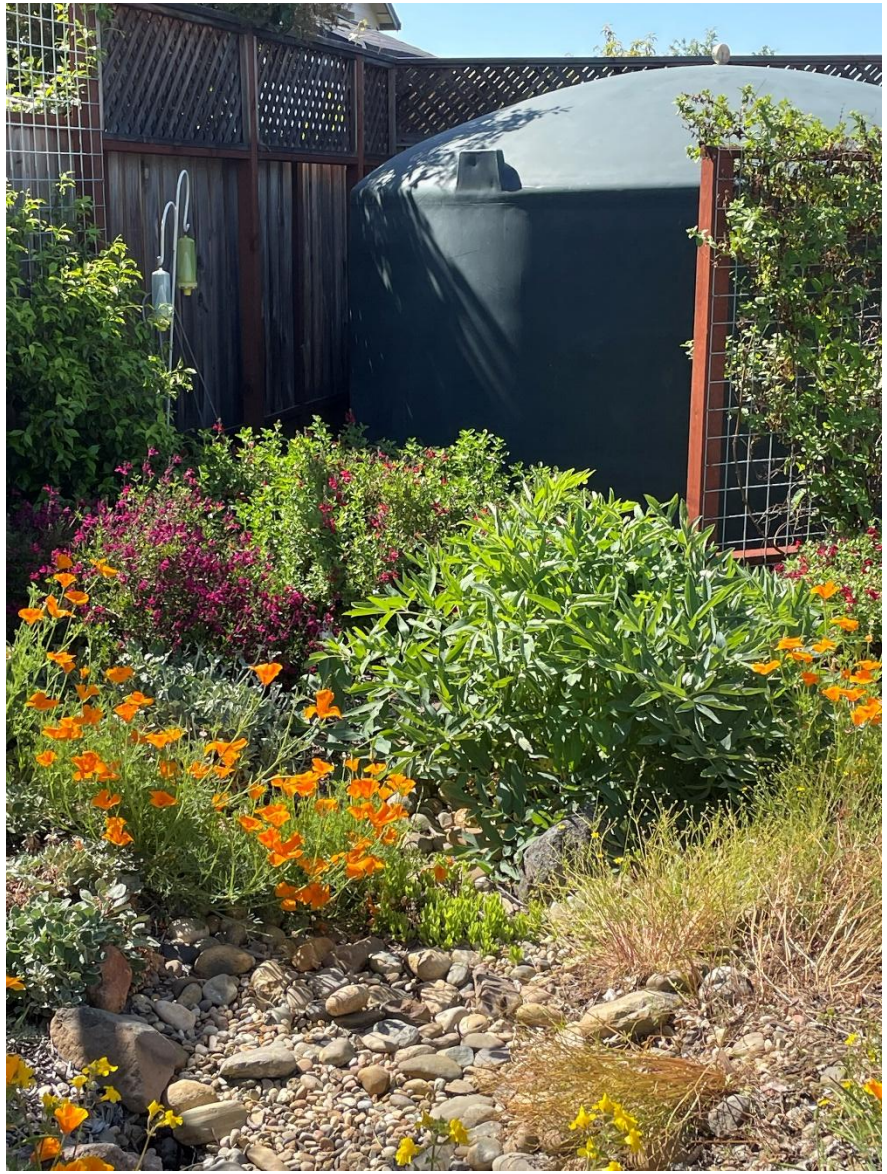
Our Landscape Template Goals

- Support our community in rebuilding
- Streamline WELO permitting and reduce costs
- Increase the number of water efficient landscapes
- Advance water saving designs that:
  - Exhibit “Fire Safer" practices
  - Provide attractive front yards
  - Integrate sustainability elements
  - Restore neighborhood vitality and ecology
  - Improve climate adaptability

SONOMA - MARIN SAVING WATER PARTNERSHIP

Sustainable Design Elements

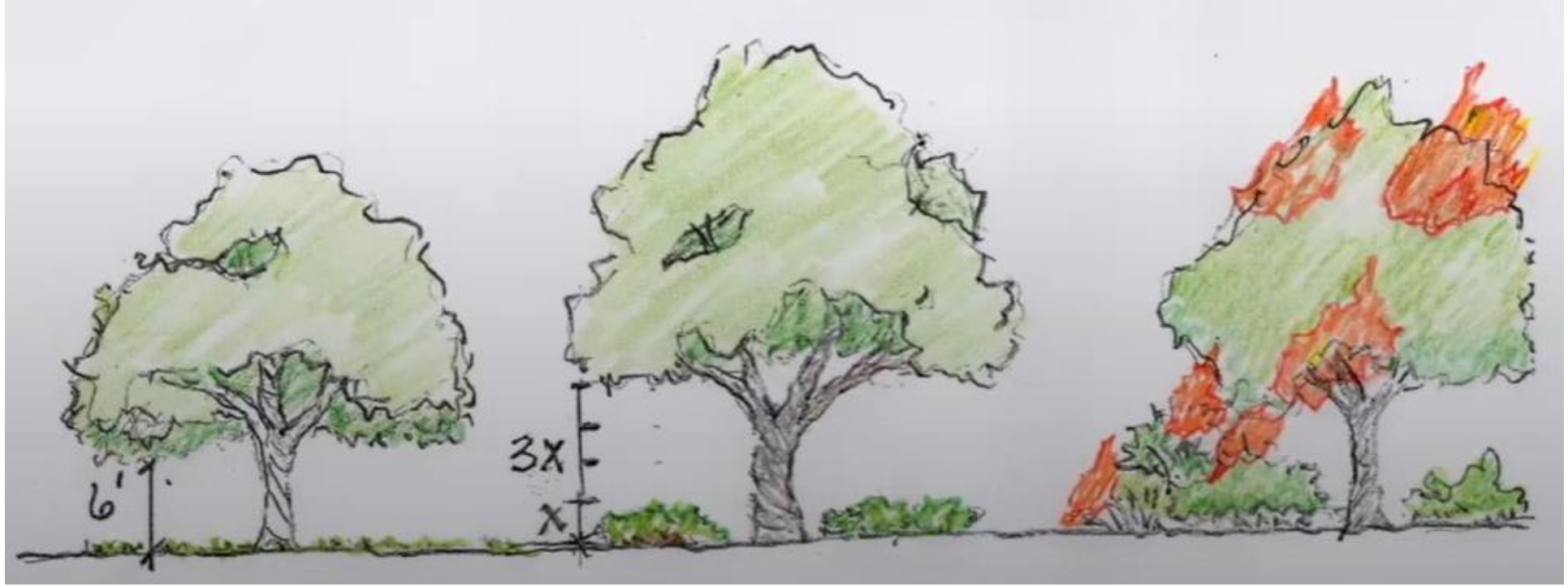
- Increase Permeability & Reduce Water Use
  - Permeable paving
  - Disconnected downspouts and paving
  - Raingardens and swales
  - Rooftop rainwater capture
  - Graywater
- Cool Urban Heat - Shade Trees
- Increase Habitat and Edible Plantings



Water Efficient Landscape Ordinance (WELO) Permit Requirements

- Landscape area < 2,500 sf
- Weather-based irrigation controllers
- 75% low water use plants
- 25% medium max
- Drip irrigation systems
- Owners self-certify
- Simplified inspection

SONOMA - MARIN SAVING WATER PARTNERSHIP



Fire Safer Guidelines

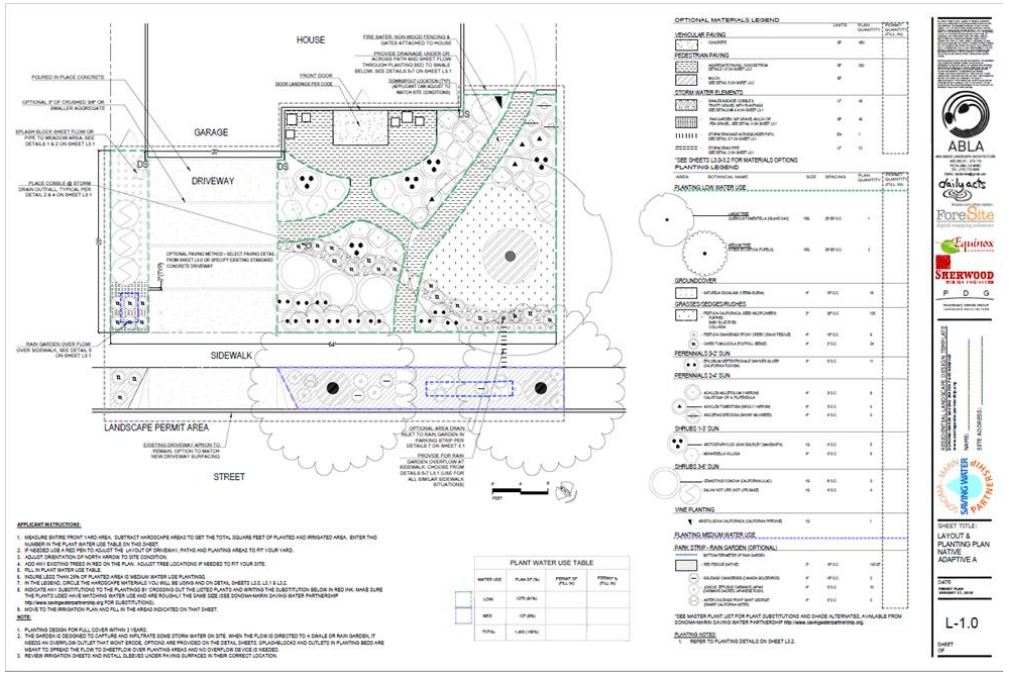
- Within 5’ of house plantings < 3’ tall
- WUI Compliant - no plantings within 5’ of house
- Defensible spaces front and back
- Place trees away from structures
- Fire safer plant selection - Agency lists
- Reduce connectivity of fuels

Garden Design Styles

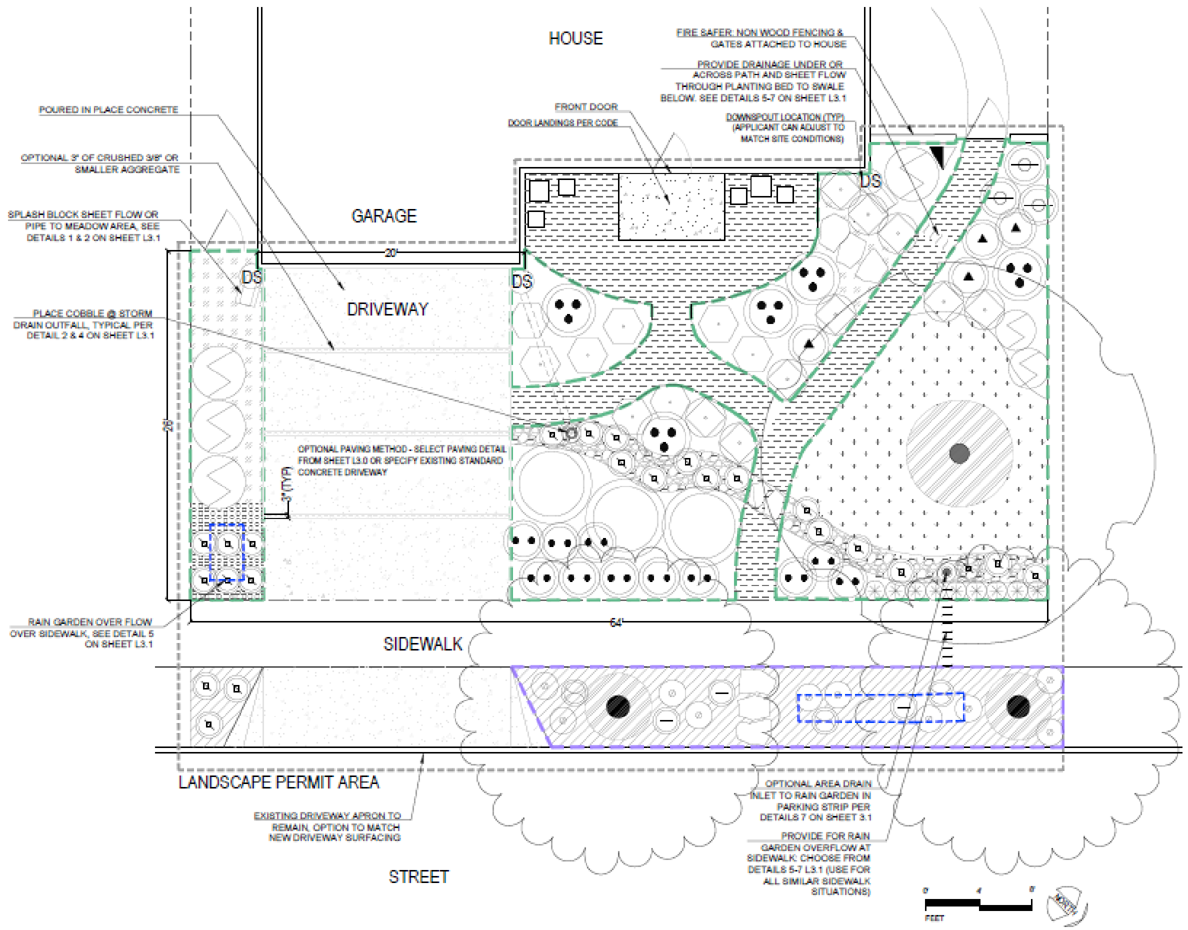
Sonoma Contemporary	• Modern, minimalistic, WUI compliant, lower cost
Sonoma Native/Adaptive	• Native, fire safer, low water use, habitat oriented, lower cost
Sonoma Cottage	• Sonoma cottage garden, natural materials, colorful plantings
Sonoma Eco-Edible	• Integrate edible and habitat plantings, more sustainability features

Landscape Design Templates Webpage

- Landscape Design Templates
- 3-D Renderings
- Concept Plans
- Plant Substitution Lists
- Cost Opinions
- FAQs
- Sample Mark-Ups



www.savingwaterpartnership.org/programs_list/landscape-design-templates/



APPLICANT INSTRUCTIONS:

1. MEASURE ENTIRE FRONT YARD AREA. SUBTRACT HARDSCAPE AREAS TO GET THE TOTAL SQUARE FEET OF PLANTED AND IRRIGATED AREA. ENTER THIS NUMBER IN THE PLANT WATER USE TABLE ON THIS SHEET.
2. IF NEEDED USE A RED PEN TO ADJUST THE LAYOUT OF DRIVEWAY, PATHS AND PLANTING AREAS TO FIT YOUR YARD.
3. ADJUST ORIENTATION OF NORTH ARROW TO SITE CONDITION.
4. ADD ANY EXISTING TREES IN RED ON THE PLAN. ADJUST TREE LOCATIONS IF NEEDED TO FIT YOUR SITE.
5. FILL IN PLANT WATER USE TABLE.
6. INSURE LESS THAN 25% OF PLANTED AREA IS MEDIUM WATER USE PLANTINGS.
7. IN THE LEGEND, CIRCLE THE HARDSCAPE MATERIALS YOU WILL BE USING AND ON DETAIL SHEETS L3.0, L3.1 & L3.2.
8. INDICATE ANY SUBSTITUTIONS TO THE PLANTINGS BY CROSSING OUT THE LISTED PLANTS AND WRITING THE SUBSTITUTION BELOW IN RED INK. MAKE SURE THE PLANTS USED HAVE MATCHING WATER USE AND ARE ROUGHLY THE SAME SIZE (SEE SONOMA-MARIN SAVING WATER PARTNERSHIP http://www.savingwaterpartnership.org FOR SUBSTITUTIONS).
9. MOVE TO THE IRRIGATION PLAN AND FILL IN THE AREAS INDICATED ON THAT SHEET.

NOTE:

1. PLANTING DESIGN FOR FULL COVER WITHIN 3 YEARS.
2. THE GARDEN IS DESIGNED TO CAPTURE AND INFILTRATE SOME STORM WATER ON SITE. WHEN THE FLOW IS DIRECTED TO A SWALE OR RAIN GARDEN, IT NEEDS AN OVERFLOW OUTLET THAT WONT ERODE, OPTIONS ARE PROVIDED ON THE DETAIL SHEETS. SPLASHBLOCKS AND OUTLETS IN PLANTING BEDS ARE MEANT TO SPREAD THE FLOW TO SHEETFLOW OVER PLANTING AREAS AND NO OVERFLOW DEVICE IS NEEDED.
3. REVIEW IRRIGATION SHEETS AND INSTALL SLEEVES UNDER PAVING SURFACES IN THEIR CORRECT LOCATION.

PLANT WATER USE TABLE

WATER USE	PLAN SF (%)	PERMIT SF (FILL IN)	PERMIT % (FILL IN)
LOW	1273 (91%)		
MED	127 (9%)		
TOTAL	1,400 (100%)		

OPTIONAL MATERIALS LEGEND

	UNITS	PLAN QUANTITY	PERMIT QUANTITY (FILL IN)
VEHICULAR PAVING			
CONCRETE	SF	450	
PEDESTRIAN PAVING			
AGGREGATE PAVING, CHOOSE FROM DETAILS 1-5 ON SHEET L3.0	SF	332	
MULCH SEE DETAIL 5 ON SHEET L3.2	SF		
STORM WATER ELEMENTS			
SWALE/CASCADE: COBBLE & TRINITY GRAVEL WITH PLANTINGS SEE DETAILS #8 & 9 ON SHEET L3.1	LF	45	
RAIN GARDEN: 3/8" GRAVEL MULCH OR PEA GRAVEL, SEE DETAIL 3 ON SHEET L3.1	SF	40	
STORM DRAINAGE ACROSS/UNDER PATH, SEE DETAIL 5-7 ON SHEET L3.1	EA	1	
STORM DRAIN PIPE SEE DETAIL 2 ON SHEET L3.1	LF	12	

*SEE SHEETS L3.0-3.2 FOR MATERIALS OPTIONS

PLANTING LEGEND

AREA / BOTANICAL NAME	SIZE	SPACING	PLAN QUANTITY	PERMIT QUANTITY (FILL IN)
PLANTING LOW WATER USE				
LARGE TREE QUERCUS TOMENTELLA (ISLAND OAK)	15G	20'-50' O.C.	1	
MEDIUM TREE NYSSA SYLVATICA (TUPELO)	15G	20'-50' O.C.	2	
GROUNDCOVER				
SATUREJA DOUGLASII (YERBA BUENA)	4"	18" O.C.	18	
GRASSES/SEDGES/RUSHES				
FESTUCA CALIFORNICA, SEED WILDFLOWERS: POPPIES, BABY BLUE EYES, COLLINSIA	2"	30" O.C.	120	
FESTUCA IDAHOENSIS 'STONY CREEK' (IDAHO FESCUE)	4"	18" O.C.	9	
CAREX TUMULICOLA (FOOTHILL SEDGE)	4"	2' O.C.	24	
PERENNIALS 0-2' SUN				
EPILOBIUM SEPTENTRIONALE 'WAYNE'S SILVER' (CALIFORNIA FUCHSIA)	4"	3' O.C.	11	
PERENNIALS 2-4' SUN				
ACHILLEA MILLEFOLIUM (YARROW) 'CALISTOGA' OR 'A. FILIPENDULA'	4"	3' O.C.	9	
ACHILLEA TOMENTOSA (WOOLY YARROW)	4"	3' O.C.	4	
ASCLEPIAS SPECIOSA (SHOWY MILKWEED)	4"	4' O.C.	3	
SHRUBS 1-3' SUN				
ARCTOSTAPHYLOS 'JOHN DOURLEY' (MANZANITA)	1G	4' O.C.	5	
MONARDELLA VILLOSA	4"	3' O.C.	8	
SHRUBS 3-6' SUN				
CEANOTHUS 'CONCHA' (CALIFORNIA LILAC)	1G	6' O.C.	3	
SALVIA 'HOT LIPS' (HOT LIPS SAGE)	1G	4' O.C.	4	
VINE PLANTING				
ARISTOLOCHIA CALIFORNICA (CALIFORNIA PIPEVINE)	1G		1	
PLANTING MEDIUM WATER USE				
PARK STRIP - RAIN GARDEN (OPTIONAL)				
BOTTOM PERIMETER OF RAIN GARDEN				
RED FESCUE (NATIVE)	2"	18" O.C.	142 SF	
SOLIDAGO CANADENSIS (CANADA GOLDENROD)	4"	18" O.C.	3	
JUNCUS EFFUSUS 'CARMAN'S JAPAN' (CARMAN'S SACRED JAPANESE RUSH)	4"	3' O.C.	10	
ASTER CHILENSIS 'POINT SAINT GEORGE' (DWARF CALIFORNIA ASTER)	4"	3' O.C.	3	

*SEE MASTER PLANT LIST FOR PLANT SUBSTITUTIONS AND SHADE ALTERNATES, AVAILABLE FROM SONOMA-MARIN SAVING WATER PARTNERSHIP http://www.savingwaterpartnership.org.

PLANTING NOTES:

1. REFER TO PLANTING DETAILS ON SHEET L3.2.

ABLA
ANN BAKER LANDSCAPE ARCHITECTURE

RESIDENTIAL LANDSCAPE DESIGN TEMPLATE
SONOMA-MARIN SAVING WATER PARTNERSHIP

NAME:

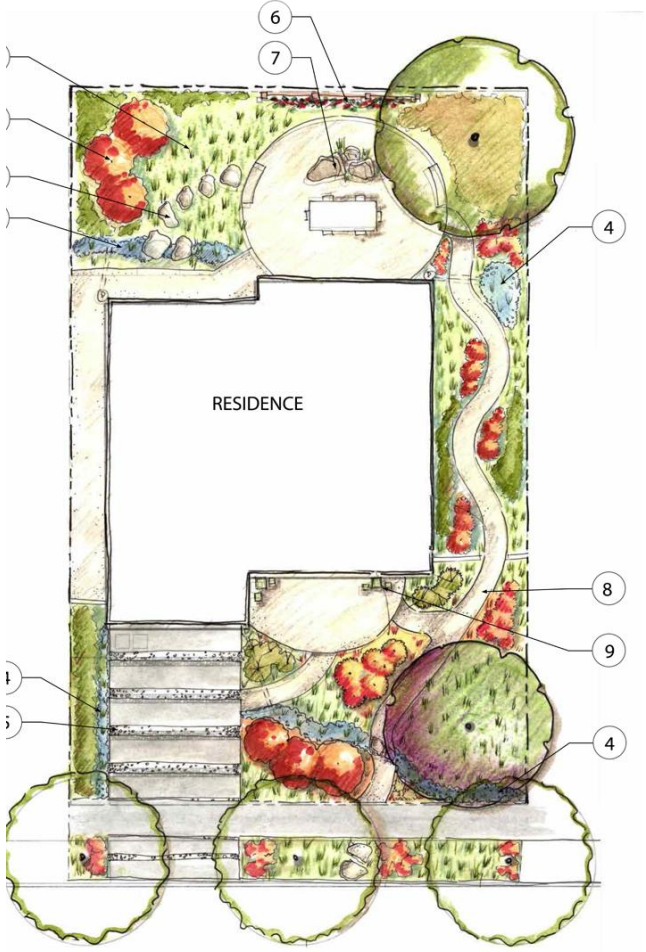
SITE ADDRESS:

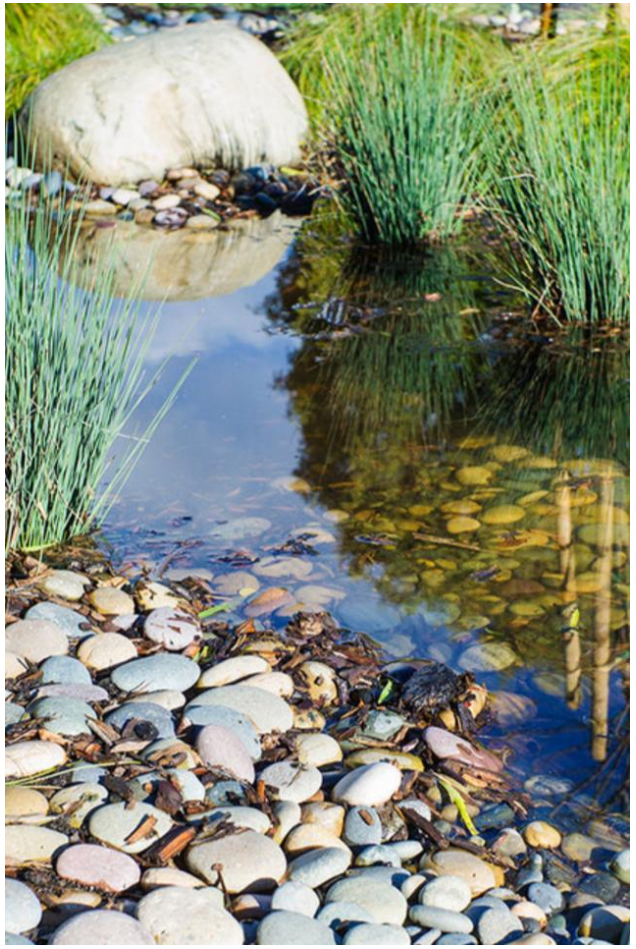
SHEET TITLE:
LAYOUT & PLANTING PLAN NATIVE ADAPTIVE A

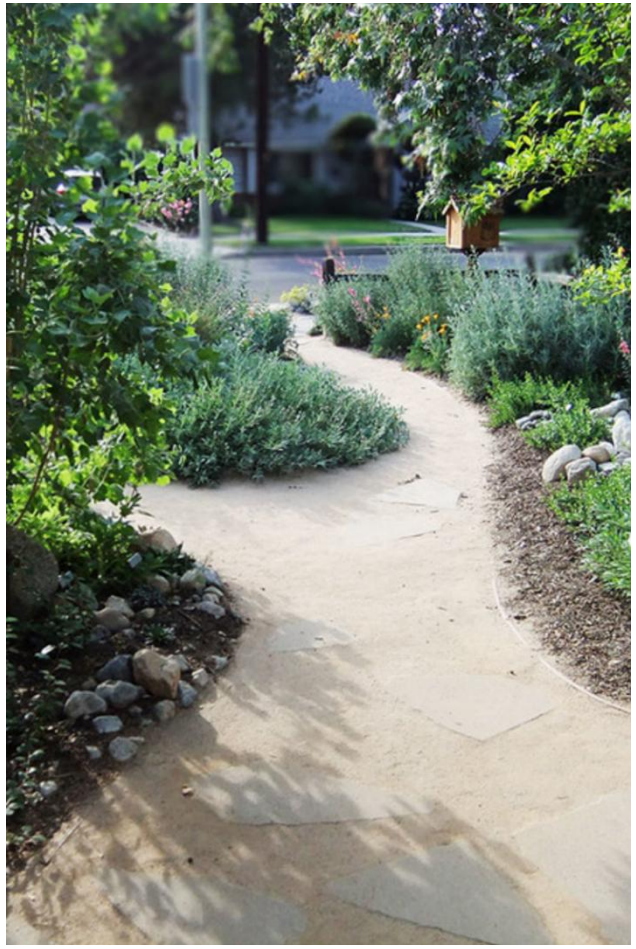
DATE
PERMIT PLAN
JANUARY 17, 2019

L-1.0

SHEET
OF







Garden Design Style:
Native Adaptive

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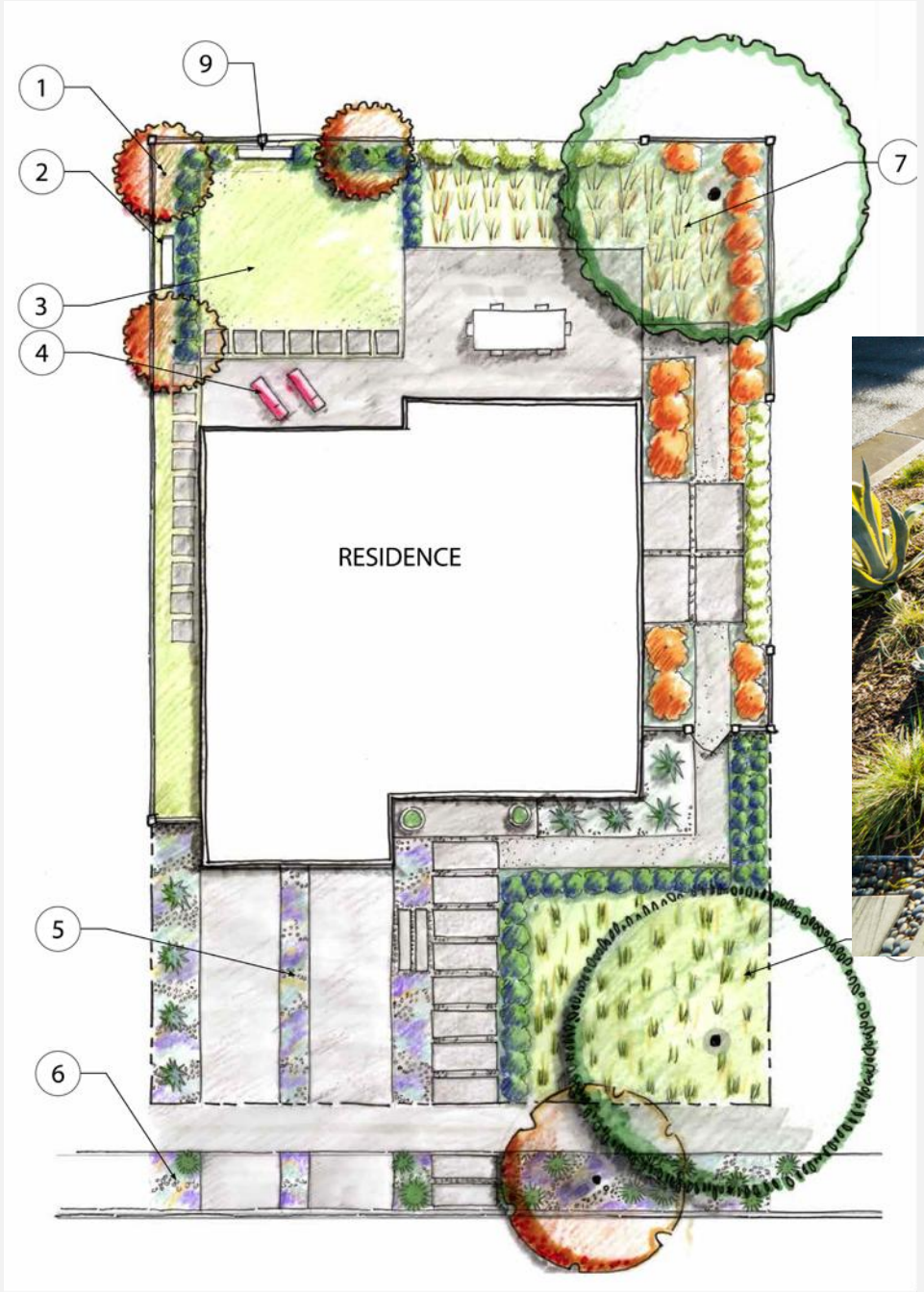
SONOMA - MARIN SAVING WATER PARTNERSHIP

Architectural Rendering: NATIVE ADAPTIVE – A (without trees for easier viewing of design)

Architectural Rendering: NATIVE ADAPTIVE - A

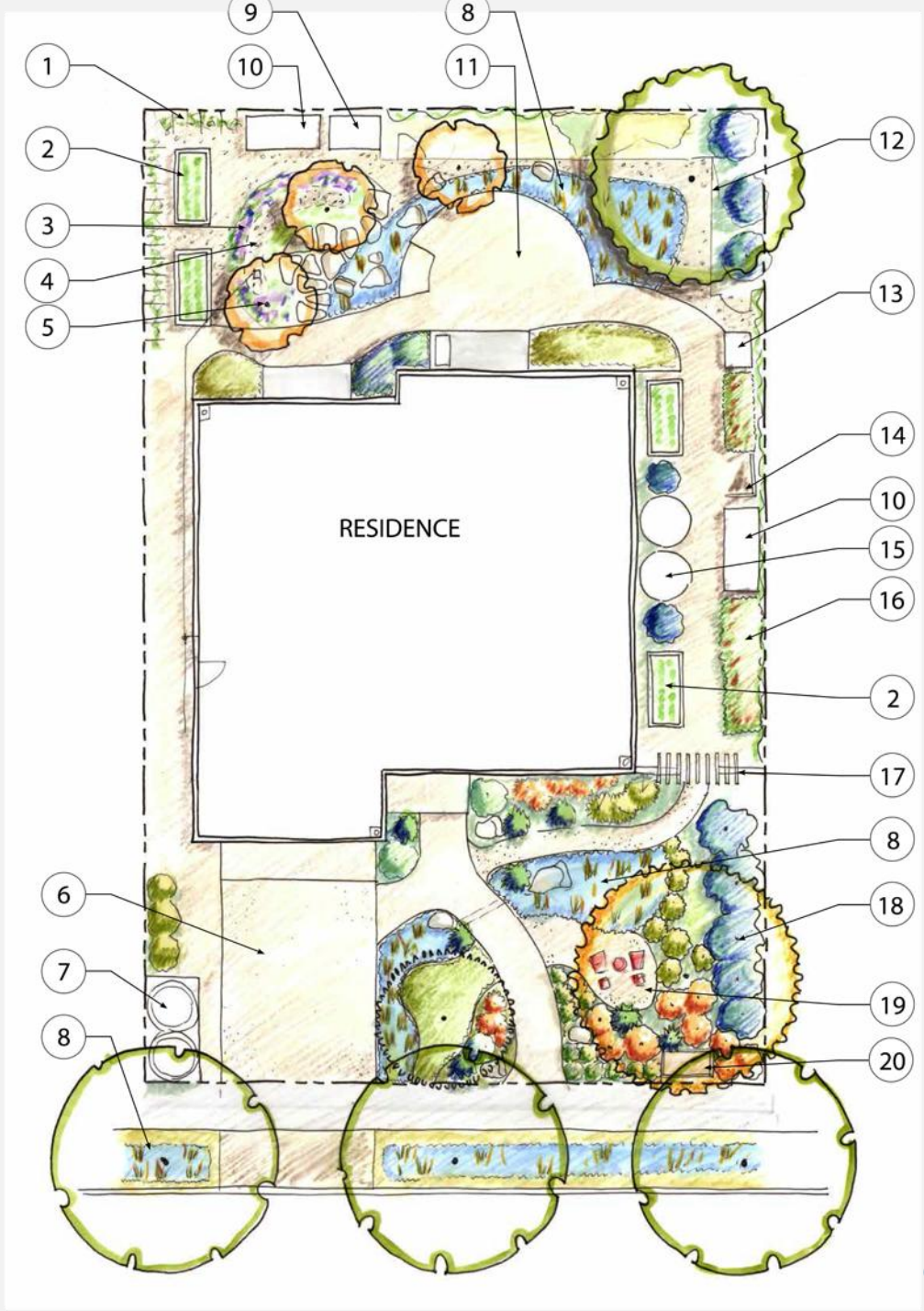
Garden Design Style:

Contemporary



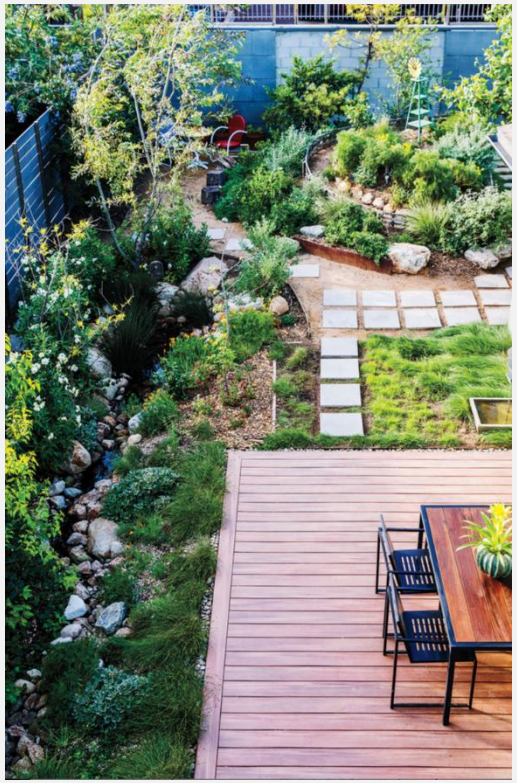
Architectural Rendering: Sonoma Contemporary – B (without trees)

Architectural Rendering: Sonoma Contemporary - B



Garden Design Style:

Eco Edible



ership.org

SONOMA - MARIN SAVING WATER PARTNERSHIP

Architectural Rendering: Eco-Edible – A (without trees)

Architectural Rendering: Eco-Edible - A

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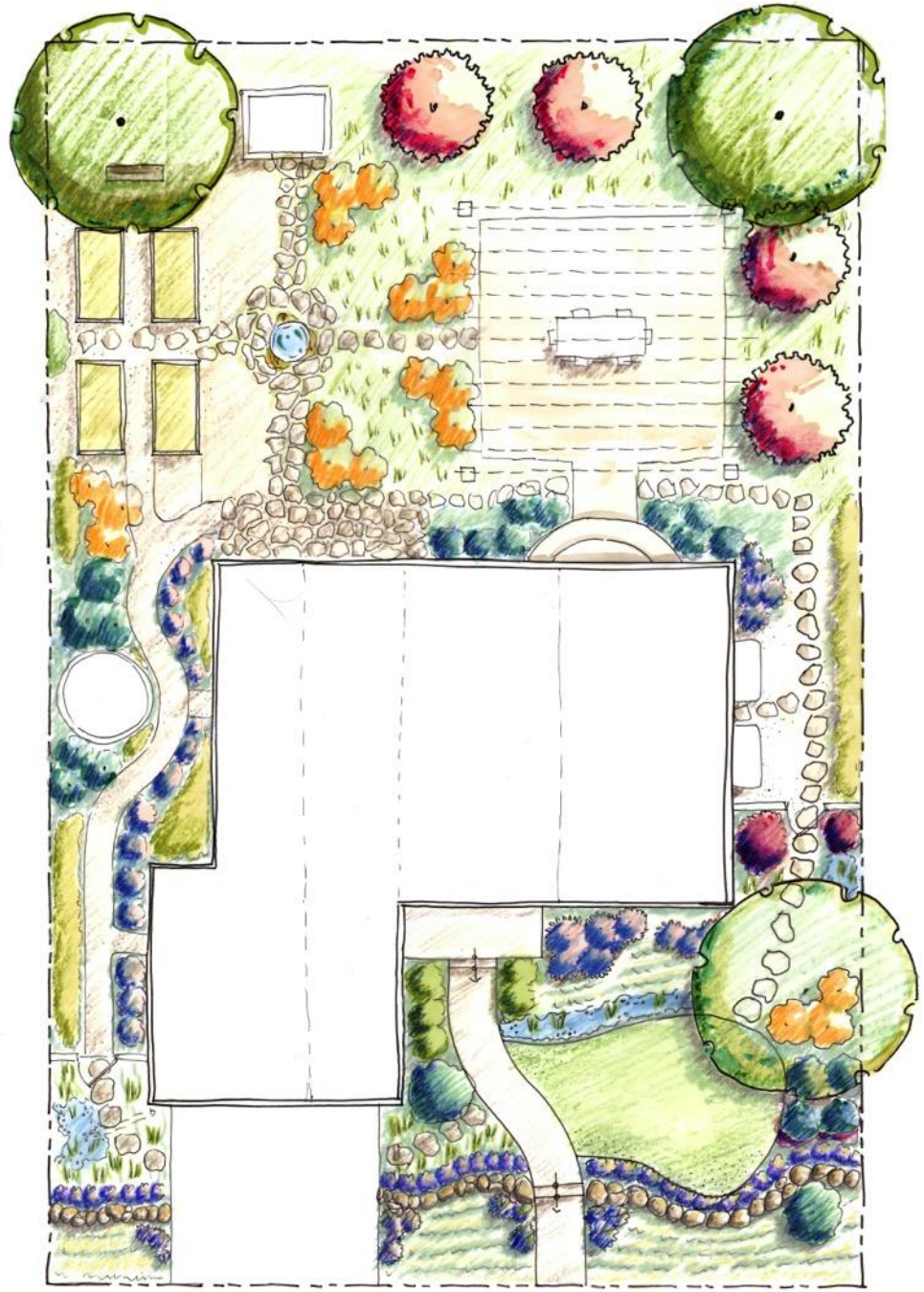

Garden Design Style:

Cottage

.org

SONOMA - MARIN SAVING WATER PARTNERSHIP

Architectural Rendering: Sonoma Cottage – A (without trees)

Architectural Rendering: Sonoma Cottage - A

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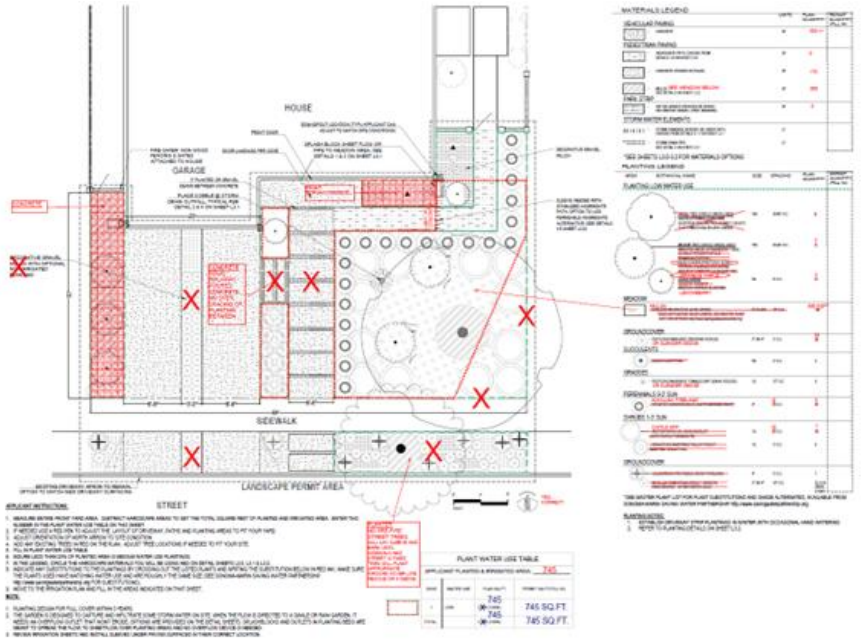
Customize the Plans to your Site

1. Verify and select
2. Adjust layout and planting plan
3. Adjust irrigation plan
4. Complete 75/25 Rule Worksheet
5. Complete application packet
6. Submit plans

Desk manual provided with step-by-step instructions!



SONOMA - MARIN SAVING WATER PARTNERSHIP

Pathways to Rebuilding Landscape Workshops

- 2 workshops held to assist homeowners
  - Overview of templates
  - Hands-on sessions
  - Modifying the templates
  - Obtaining a permit
- To date 40% of rebuild projects used templates

CONTENTS

NEW! Companion Maintenance Manual

- A step-by-step guide on how and why to maintain a low water use landscape.
- Maintenance calendar that illustrates when seasonally important tasks should occur

SONOMA - MARIN
SAVING WATER
PARTNERSHIP

Paul Piazza

Water Use Efficiency Manager
Sonoma Water
Sonoma-Marin Saving Water Partnership

www.savingwaterpartnership.org

Coalition Programming

Urban Land Institute

Programming Brainstorm

Let us know what you want for coalition meetings!

Cohort Programming Agenda	Subject Brainstorm
Jan/Feb/March 2024	Water wise policies, regulations, incentives (Waverly, AWE, Babbitt)
April/May/June 2024	Water pricing, tap fees, equity, and affordability (Benji Smith, AWE, WRA, CSU)
July/Aug/Sept 2024	One Water Approach + land use (US Water Alliance, Denver One Water, Tucson)
Oct/Nov/Dec 2024	Water reuse (Water Reuse Foundation, Pacific Institute)
Jan/Feb/March 2025	MLS listings? (adding water, energy, resilience scores), Appraisals?

APRIL 12, 2024 | NEW YORK, NY

RESILIENCE SUMMIT

Urban Land Institute

THANK YOU FOR JOINING US!

You can reach me at Marianne.Eppig@uli.org

Urban Land Institute

Implementation Project Ideas

Pending funding

- **A Water Wise Development Symposium** bringing together the public and private sectors to advance water wise strategies for real estate.
- **Convening local roundtables** and/or focus groups between public and private sector land use and water professionals, aimed at supporting water-wise real estate and supportive policies.
- **The creation of educational materials** that advance and document market demand for water-wise land uses.
- **Other ideas?**
  - Tours
  - Case studies with financials
  - Etc.