

California Drought Mandates

Available Resources from UC Agriculture and Natural Resources (UC ANR)

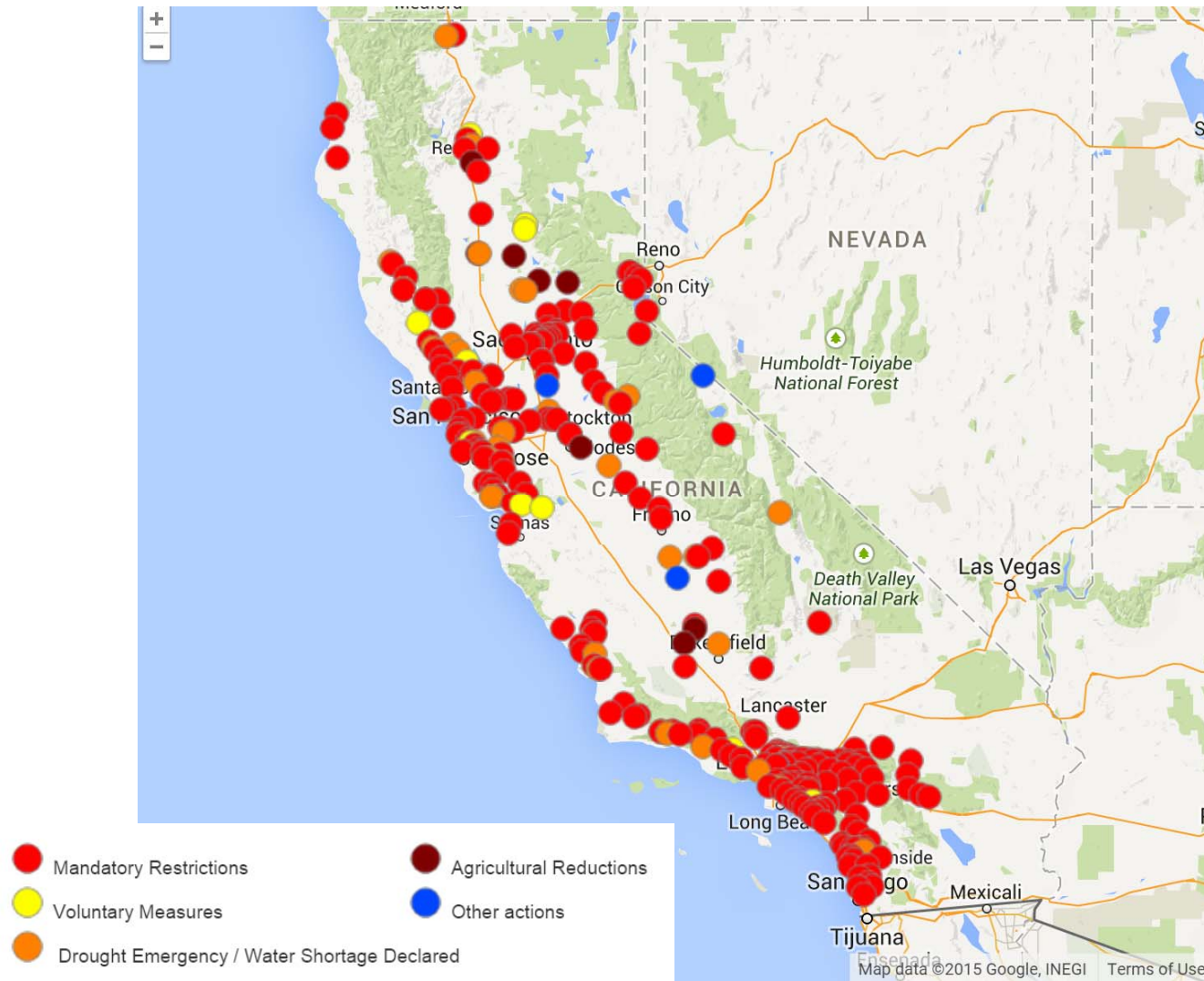
Darren L. Haver

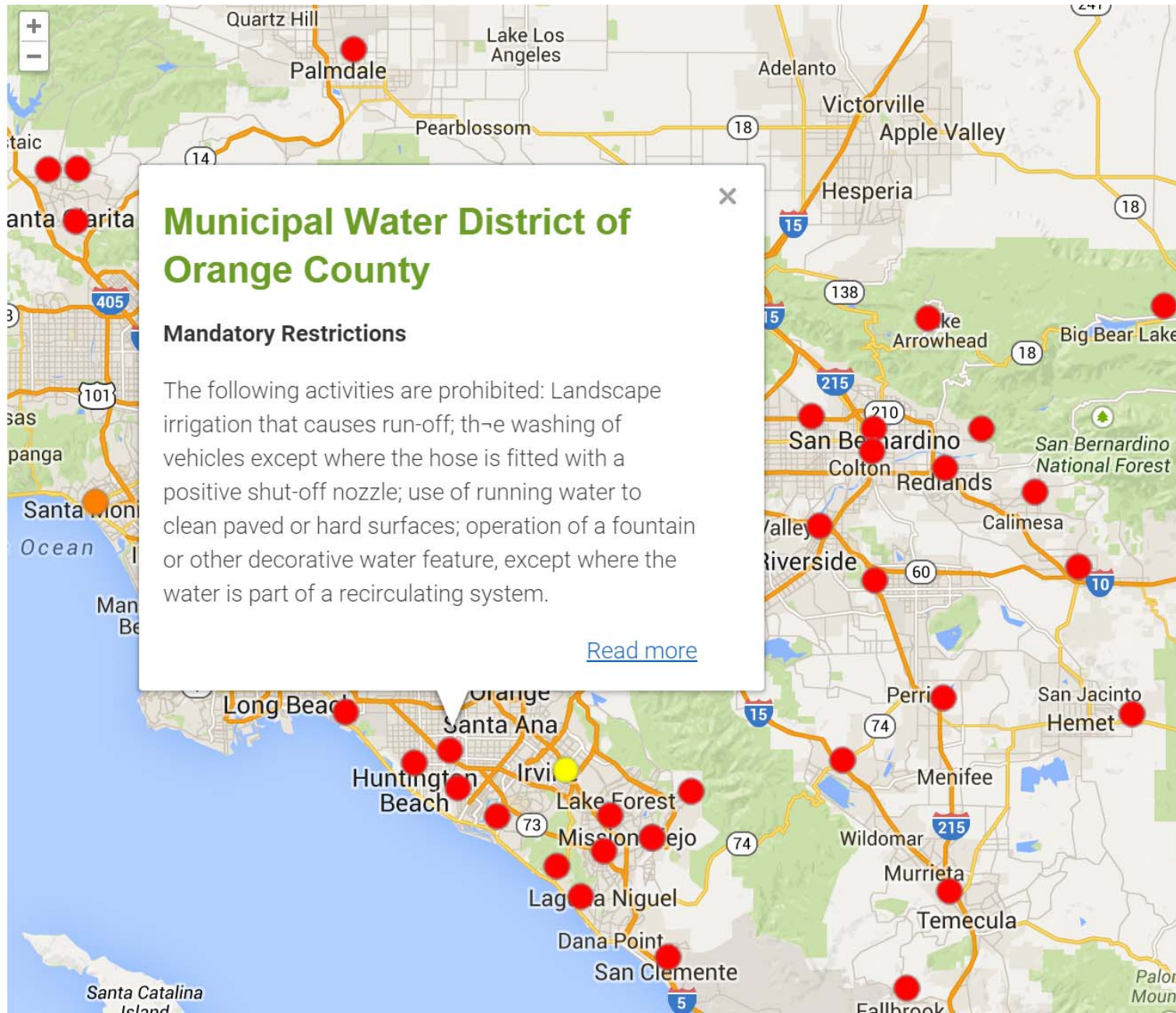
**Water Resources/Water Quality Advisor
UC Cooperative Extension Orange County**

Current Resources Available

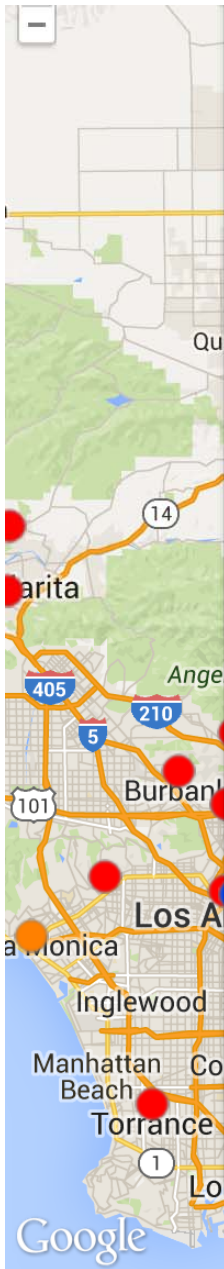
- How do I find out the water saving requirements in my area?
- What should we be telling our clients?
 - Homeowners
 - Landscape Maintenance Professionals
- Available Online and Printed Resources

What is Required Locally?





<http://www.acwa.com/content/drought-mapr>



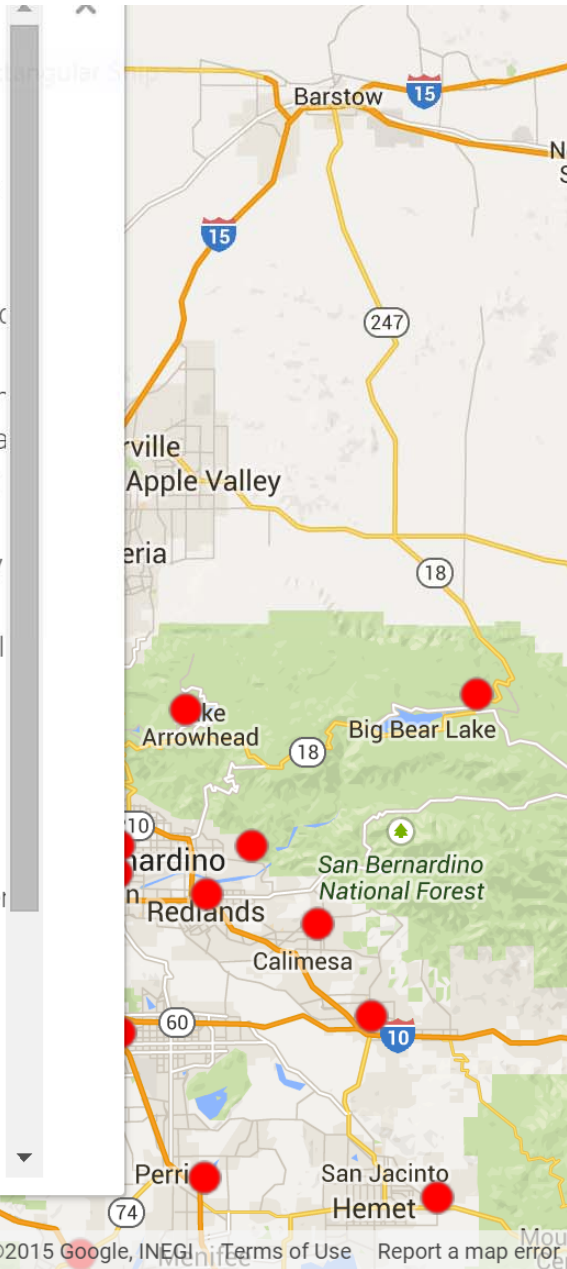
Irvine Ranch Water District

Voluntary Measures

Asking customers to voluntarily reduce water use 20%.

At this time, IRWD will utilize an alternative method to discourage water wasters. IRWD will use the allocation-based conservation rate structure to limit outdoor watering. Rather than specifying which day a customer can water their yard, IRWD will assign each customer a monthly water budget. This approach complies with the new state emergency drought regulations and promotes long term behavior changes by sending a strong price signal that something is wrong, maybe a water leak or broken sprinkler timer. Customers are able to fix these problems and understand how they cause water over use.

The District offers financial incentives to customers to encourage the installation of high efficiency clothes washers and toilets, and turf replacement and continues to engage customers in innovative and creative ways to conserve water through customer communication programs.



What Should We Tell Our Clients?



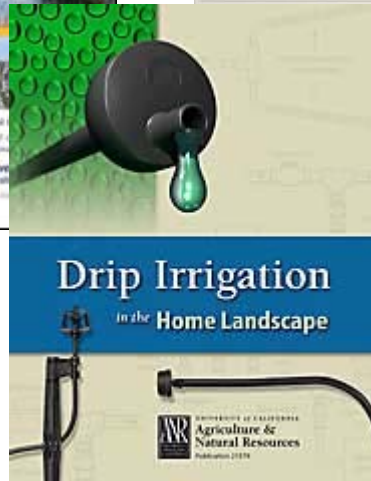
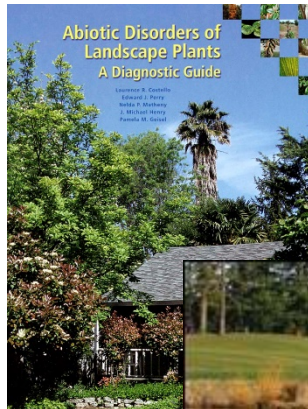
- Homeowners
 - Perform a regular assessment of your irrigation system.
 - Determine soil type to better schedule irrigations.
 - Plan landscape renovations for the Fall.

What Should We Tell Our Clients?



- Landscape Maintenance Professionals
 - Request regular irrigation audits.
 - Calculate maximum allowable water use for common areas; require that this number should not be exceeded.
 - Plan landscape renovations for the Fall.

Online and Printed Resources



UC CE University of California Cooperative Extension Orange County Water Quality and Water Resources

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Home

- CDPR Projects
- UCCE Water Quality and Water Resources Meetings and Events
- Online Educational Programs
- Water Quality Program Blogs
- UCCE Smart Landscape Practices
- UCCE Demonstration Landscapes
- UC Davis Arboretum All-Stars
- UCCE Urban Pest Ant Management
- UCCE Urban Agriculture Partnerships
- Youth Outreach

Urban Water Management Measures and Practices

SHARE PRINT

About our programs.....

Welcome to the University of California Cooperative Extension of Orange County Water Quality and Water Resources Outreach Program. This program is designed to promote researched based information on sustaining one of our most precious natural resources - water.

Focusing on "Urban Water Management Measures & Practices", through this site, you will learn about the various research, outreach programs, events, and resources, available in cooperation with the University of California Cooperative Extension in Orange County and it's collaborators.


Join in protecting human health and local water resources by letting us guide you through better management practices to reduce run-off, conserve water, and improve the water quality generated by urban activities.

Calendar

Event Name	Date
OC Garden Friendly Event - Green Thumb Intl. Nursery	5/2/2015
Go in' Native Eco Garden Expo	5/2/2015
SMWD SustainaBlue Water Efficiency Water Awareness Day	5/2/2015
So Cal CAPCA 'Current Issues in Urban Landscapes'	5/7/2015

California Center for Urban Horticulture

UC DAVIS COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES



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Photo by Missy Cable

Enhancing urban living through horticulture

Located at the University of California, Davis, the **California Center for Urban Horticulture (CCUH)** draws upon the knowledge and expertise of our partners in academia, industry, and the public with a mission to help Californians

- develop more water-conserving, pest-resistant and disease-resistant home gardens
- create environmentally sound public landscapes and parks
- produce better plant materials for sustainable urban landscapes

We seek to address the state's growing water demands, increasing chemical inputs into the environment, and loss of wild lands in order to improve the quality of urban life.



Upcoming Events

Rose Days-May 2nd & 3rd

Save the Date! Catalog is posted now!

May 02, 2015

Free WaterSmart Workshop: Strategies for Water-Efficient Landscapes- Wednesday May 13th OR Thursday May 14th

San Diego workshop.

May 13, 2015

Adaptate o te Secas! Seis Metodos de Sobrevivir La Sequia: Stockton

Un seminario para operadores de riego.

May 29, 2015

Get Ahead or Get Parched! Six Ways to Survive the Drought: Stockton

For landscape irrigation managers.

May 29, 2015

Get Ahead or Get Parched! Six Ways to Survive the Drought: South Lake Tahoe

<http://ccuh.ucdavis.edu/>

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Landscape Water Conservation Resources

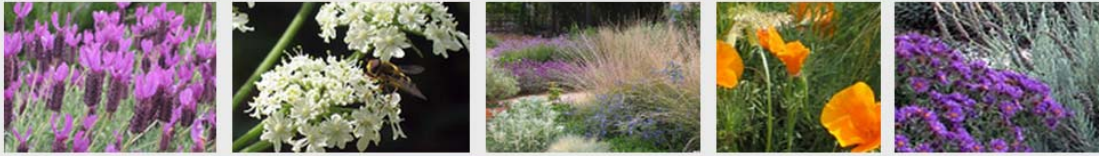
In 2009 the California State Senate passed the [Water Conservation Act](#) mandating a 20% per capita reduction in urban water use by December 31, 2020. We hope that these resources will aid professionals in reaching this goal.

Presentations & Publications

- [Water Runoff Management](#) by Darren Haver and Loren Oki
- [UC Davis Arboretum All-Stars](#) by Ellen Zagory, UC Davis Arboretum and Public Gardens
- [Managing Turfgrasses During Drought](#) (ANR Publication 8395)

Resources

- [WUCOLS IV](#) a database with over 1700 species and cultivars of plants. Search by region to find plants for your landscape. Read the [WUCOLS IV Manual](#) to get started.
- [The TRIC \(Tree Ring Irrigation Contraption\)](#) An innovative way to water trees during drought.
- [Landscape Water Conservation Resources Map](#): This resource contains regionally appropriate information that can be disseminated to clients and homeowners.
- [Estimating the Irrigation Water Needs of Landscape Plants \(WUCOLS IV\)](#)
- [CLCA Water Management Certification Program](#)
- [The Irrigation Association Certifications and Education](#)
- [River Friendly Landscaping Guidelines](#)
- [Bay Friendly Landscaping](#)
- [Save Our H2O](#)



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Landscape Irrigation Scheduling

The California drought continues into its 4th year, and state regulators continue to impose restrictions on landscape watering. These new restrictions may cause confusion on the part of landscapers and homeowners. UC Davis has created an irrigation scheduling worksheet that can help. The worksheet generates an annual calendar to irrigate an irrigation zone based on several factors. The user enters information about their site to find out how much to water their landscape.

Before using the irrigation scheduling worksheet, the user will need to first conduct an irrigation assessment to determine the distribution uniformity of the irrigation system. If needed, download instructions at Landscape Irrigation System Evaluation and Management.

Links:

[Landscape Irrigation Scheduling Worksheet](#)

[Landscape Irrigation Scheduling Worksheet Instructions](#)

[Landscape Irrigation System Evaluation and Management](#)

Evaluator: Auditor XYZ
 Date: 19/25/2014
 Controller: WaterManager X2
 Zone name: Test zone 12
 Station: Turf west

Location: Davis
 ETo Zone: 14
 Soil type: sandy loam
 Depth to wet: 12 in.

DU _{LQ}	0.65	Avg _{LQ} /Avg _T
PR (in/hr)	1.01	Avg precip rate
Scheduling multiplier	1.26	=1/(0.4+(0.6*DU))
Inches to wet 12 in depth (in)	0.7	
Time to wet 12 in depth (min)	39	"Lower boundary"
Max duration (min)	49	"Upper boundary"
Run Time per Cycle (min)	12	This is the duration and fewest cycles that provide at least 90% of the Upper Boundary.
Number of cycles	4	
Relative amount applied (%)	98%	
Amount applied (in)	0.65	
Infiltration Rate (in/hr)	0.8	



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Available now

NEW!

California Master Gardener Handbook Second Edition

Dennis R. Pittenger
Editor

University of California
Agriculture and Natural Resources
Publication 3302

<http://anrcatalog.ucdavis.edu/>

UCCE Orange County Urban Water Management



University of California Cooperative Extension

Orange County Water Quality and Water Resources

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Urban Water Management Measures and Practices

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<http://ucanr.edu/sites/urbanwatermgmt/>

 **University of California** Agriculture and Natural Resources

California Institute for Water Resources



The screenshot shows the website's header with navigation links (SHARE, EMAIL, PRINT, SITE MAP) and a search bar. The main banner features the UC logo, the institute's name, and the tagline "Developing research-based solutions to water-related challenges". A sidebar on the left lists navigation options like "Home", "About the Institute", and "QUICK LINKS". The main content area is titled "California Drought Resources" and contains text about the institute's role in drought management, accompanied by two satellite maps of California comparing January 2013 and January 2014. The 2014 map shows significantly less snowpack and drier vegetation.

University of California, Division of Agriculture and Natural Resources
California Institute for Water Resources
Developing research-based solutions to water-related challenges

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Research and Outreach Projects
Tools and Resources
Publications
Keep in Touch

QUICK LINKS
Our Blog: The Confluence
Drought resources
Nitrogen Hazard Index
Rosenberg Forum

California Drought Resources

In the midst of historic drought, California's academic institutions serve as a tremendous resource both in offering everything from near-term management advice to farmers and ranchers to the innovative work being carried out by researchers on a vast array of issues from drought resistant crops to snow sensors to climate change.

These pages are being continuously updated as we work to bring the resources of the state's universities and colleges to a broad range of communities.

- [Drought-related events](#)
- [Drought information and resources](#)



January 2013 January 2014

http://ciwr.ucanr.edu/California_Drought_Expertise/

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- **Landscape and urban:**

- **NEW:** [Landscape Irrigation Scheduler](#)
- [Gardening in California Under Drought Limitations](#)
- [California Gardening and Irrigation Tips](#) from the [UC Master Gardener program](#)
- [Drip irrigation for gardens](#)
- [Water-wise gardening tips for Marin County](#)
- [Water Conservation Tips for Home Lawn and Garden](#)
- [Drought resistant crops and varieties](#)
- [Growing food with less water](#)
- [Lawn watering guide for California](#)
- [Keeping Landscape Plantings Alive under Drought or Water Restrictions](#)
- [Use of Graywater in Urban Landscapes](#)
- [Managing turfgrasses during drought](#)
- [Landscape water management](#)
- [Drought tips for landscape managers](#) and [for homeowners](#) from the [California Center for Urban Horticulture](#)

http://ciwr.ucanr.edu/California_Drought_Expertise/Drought_information/

Thank You!