

# UC Drought Resources Online



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Agriculture and Natural Resources | California Institute for Water Resources  
*Developing research-based solutions to water-related challenges*

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**New! Drought resources**

As we enter 2014 in the midst of historic drought, California's academic institutions serve as a tremendous resource.



[Visit our drought pages](#) for events, experts, and informational resources.

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UC Water Institute:  
Combo of #climatechange, growth & groundwater a train wreck says  
@JayFamiglietti <http://t.co/1d4LbqTong>  
#drought <http://t.co/VTMRJiffqa>  
Posted less than a minute ago

UC Water Institute:  
The politics of allocating water between ag, residents, environment in CA, with Ellen Hanak of @PPICnotes <http://t.co/BMnWFz2nJK>  
#drought  
Posted less than a minute ago

**Fulfilling our mission**

*"As California faces its worst drought in decades, water supply and quality for agricultural, urban, and environmental systems has become one of our biggest challenges. UC's California Institute for Water Resources is vital to integrating California's research, extension, and education programs to help mitigate the current problem and develop practical long-term solutions."*

Secretary Karen Ross, California Department of Food and Agriculture

Web: [ucanr.edu/drought](http://ucanr.edu/drought)

Twitter: @ucanrwater

for up-to-date resources

for daily updates



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# UC Drought Resources: Events, experts, information



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## 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](#)
- [Drought experts list](#)
- [Media coverage featuring our experts](#)
- [Story highlights](#)

Follow us on Twitter [@ucanrwater](#) for drought-related news and updates.

*"As California faces its worst drought in decades, water supply and quality for agricultural, urban, and environmental systems has become one of our biggest challenges. UC's California Institute for Water Resources is vital to integrating California's research, extension, and education programs to help mitigate the current problem and develop practical long-term solutions."*

Secretary Karen Ross, California Department of Food and Agriculture  
Secretary John Laird, California Natural Resources Agency

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**Division of Agriculture and Natural Resources, University of California**

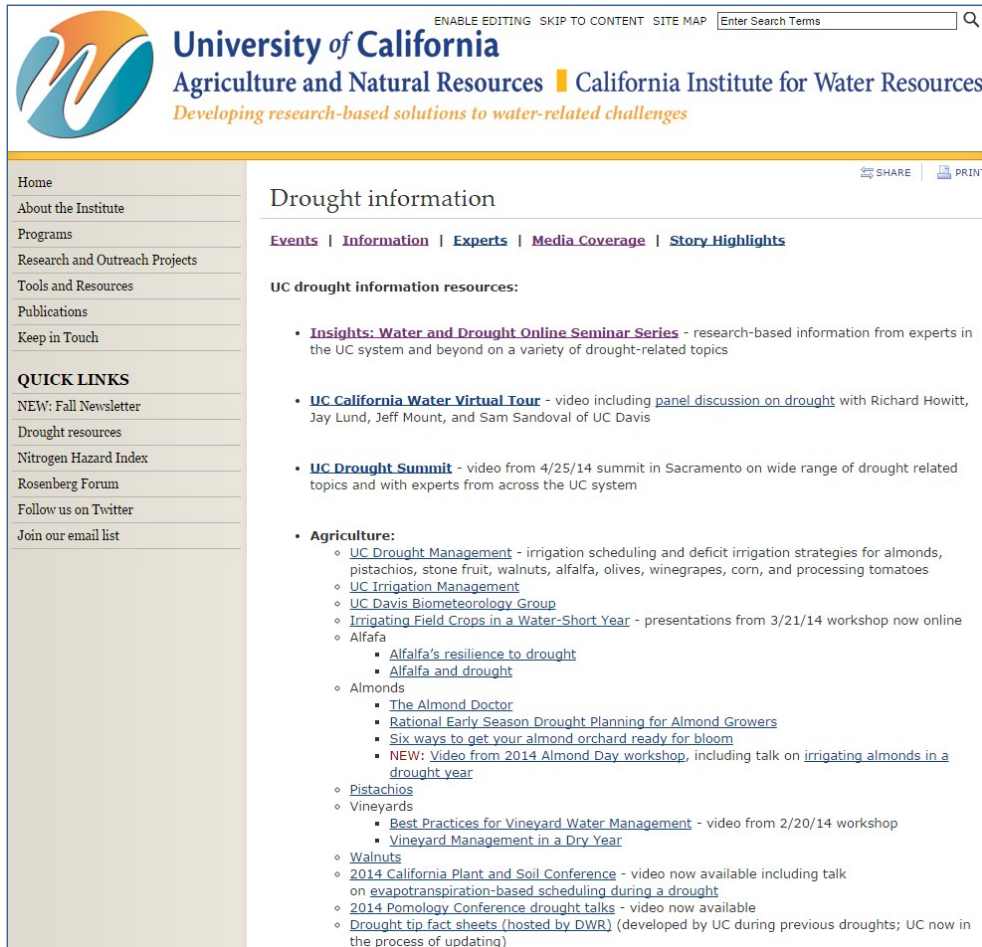
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# UC Drought Resources: Information



The screenshot shows the website header with the University of California logo, navigation links (Home, About the Institute, Programs, Research and Outreach Projects, Tools and Resources, Publications, Keep in Touch), and a search bar. The main content area is titled "Drought information" and includes a navigation menu (Events, Information, Experts, Media Coverage, Story Highlights) and a list of resources under the heading "UC drought information resources:". The resources include links to seminars, virtual tours, summits, and various agricultural management guides for crops like alfalfa, almonds, pistachios, vineyards, and walnuts.

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Drought information

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**Events | Information | Experts | Media Coverage | Story Highlights**

**UC drought information resources:**

- **Insights: Water and Drought Online Seminar Series** - research-based information from experts in the UC system and beyond on a variety of drought-related topics
- **UC California Water Virtual Tour** - video including [panel discussion on drought](#) with Richard Howitt, Jay Lund, Jeff Mount, and Sam Sandoval of UC Davis
- **UC Drought Summit** - video from 4/25/14 summit in Sacramento on wide range of drought related topics and with experts from across the UC system
- **Agriculture:**
  - [UC Drought Management](#) - irrigation scheduling and deficit irrigation strategies for almonds, pistachios, stone fruit, walnuts, alfalfa, olives, winegrapes, corn, and processing tomatoes
  - [UC Irrigation Management](#)
  - [UC Davis Biometeorology Group](#)
  - [Irrigating Field Crops in a Water-Short Year](#) - presentations from 3/21/14 workshop now online
  - Alfalfa
    - [Alfalfa's resilience to drought](#)
    - [Alfalfa and drought](#)
  - Almonds
    - [The Almond Doctor](#)
    - [Rational Early Season Drought Planning for Almond Growers](#)
    - [Six ways to get your almond orchard ready for bloom](#)
    - **NEW: Video from 2014 Almond Day workshop**, including talk on [irrigating almonds in a drought year](#)
  - [Pistachios](#)
  - Vineyards
    - [Best Practices for Vineyard Water Management](#) - video from 2/20/14 workshop
    - [Vineyard Management in a Dry Year](#)
  - [Walnuts](#)
  - [2014 California Plant and Soil Conference](#) - video now available including talk on [evapotranspiration-based scheduling during a drought](#)
  - [2014 Pomology Conference drought talks](#) - video now available
  - [Drought tip fact sheets \(hosted by DWR\)](#) (developed by UC during previous droughts; UC now in the process of updating)

- Curated source of drought information from around the UC system.
- Links to a wide variety of resources from all campuses and broad range of topics.



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# UC Drought Response: Online seminar series

New online seminar series with experts from around the state, support from state department of water resources

[ucanr.edu/insights](http://ucanr.edu/insights)

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Insights: Water and Drought Online Seminar Series

[Events](#) | [Information](#) | [Experts](#) | [Media Coverage](#) | [Story Highlights](#)

This online seminar series from the University of California, Agriculture and Natural Resources, with support from the California Department of Water Resources, brings timely, relevant expertise on water and drought from around the UC system and beyond directly to interested communities.

Drought impacts on natural resources, man-made environment, and water supply

<p>Not all species respond similarly to drought stress</p> <ul style="list-style-type: none"><li>• Many waterbirds can be concentrated during wetting</li><li>• Wetland birds are more likely to die from poor water quality or concentrated waste</li><li>• Waterfowl</li></ul>	<p><b>Drought - an insidious stress on wildlife</b></p> <p><a href="#">Greg Glusti</a>, UC Cooperative Extension County Director and Advisor</p>
<p>Forest Types</p> <ul style="list-style-type: none"><li>• Vary according to elevation and slope</li><li>• Fire cycles depend on elevation</li><li>• Fire cycles vary by elevation</li></ul>	<p><b>Wildfire and droughts in Sierra Nevada forests</b></p> <p><a href="#">Susie Kocher</a>, UC Cooperative Extension Advisor</p>
<p>Adapting Productivity to Drought</p> <ul style="list-style-type: none"><li>• Goal - Crop Production</li><li>• Maximize the use of water</li><li>• Minimize loss</li></ul>	<p><b>Agricultural water management practices under limited water supply: Lessons from recent droughts</b></p> <p><a href="#">Jim Ayars</a>, Agricultural Engineer, USDA ARS</p>
<p>Central Valley Facts:</p> <ul style="list-style-type: none"><li>• Average annual precipitation in the Central Valley is 20 inches</li><li>• The Central Valley is one of the most densely populated areas in California</li><li>• The Central Valley is one of the most important agricultural regions in the world</li><li>• The Central Valley is one of the most important water resources in California</li></ul>	<p><b>Land subsidence along the Delta-Mendota Canal and neighboring areas</b></p> <p>Michelle Sneed, California Water Science Center, US Geological Survey</p>



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# UC Drought Response: Events



- Over 100 events in six months on wide variety of topics from range management to lawn replacement.
- Approximately 5,000 attendees.
- Many events with video capture now on the web.
- Supported in part by the California Department of Water Resources.



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# UC Drought Media Coverage



SCIENCE

## Hundred Years of Dry: How California's Drought Could Get Much, Much Worse

Bryan Walsh @bryanwalsh | Jan. 23, 2014



Scientists fear California's long-ago era of mega-droughts could be back

As he gave his State of the State speech yesterday, California Gov. Jerry Brown had reason to feel pretty good. The 75-year-old governor has helped rescue the state from fiscal insolvency and presided over the addition of 1 million new jobs since 2010. But as he spoke, Brown hit a darker note. Last week, amid the driest year for the state since record-keeping began in the 1840s, Brown declared a



California is the driest it has been in record, but its geologic history indicates the drought could get far worse.  
David McNew / Getty Images

## The New York Times

### Severe Drought Has U.S. West Fearing Worst

By ADAM NAGOURNEY and IAN LOVETT FEB. 3, 2014



LOS ANGELES — The punishing drought that has swept California is now threatening the state's drinking water supply.

With no sign of rain, 17 rural communities providing water to 40,000 people are in danger of running out within 60 to 120 days. State officials said that the number was likely to rise in the months ahead after the State Water Project, the main municipal water distribution system, announced on Friday that it did not have enough water to supplement the dwindling supplies of local agencies that provide water to an additional 25 million people. It is first time the project has turned off its spigot in its 54-year history.

State officials said they were moving to put emergency plans in place. In the worst case, they said drinking water would have to be brought by truck into parched communities and additional wells would have to be drilled to draw on groundwater. The deteriorating situation would likely mean imposing mandatory water conservation measures on homeowners and businesses, who have already been asked to voluntarily reduce their water use by 20 percent.

"Every day this drought goes on we are going to have to tighten the screws on what people are doing" said Gov. Jerry Brown, who was governor during the last major drought here, in 1976-77.



Max Whitaker for The New York Times

It's gone. Undo

What was wrong with this ad?

- Inappropriate
- Repetitive
- Irrelevant

## Mother Jones

### 40 Million People Depend on the Colorado River. Now It's Drying Up.

—By Tom Philpott | Mon Aug. 4, 2014 6:09 AM EDT



Edgar J. Rodriguez/Shutterstock

Science papers don't generate much in the way of headlines, so you'll be forgiven if you haven't heard of one called "Groundwater Depletion During Drought Threatens Future Water Security of the Colorado River Basin," recently published by University of California-Irvine and NASA researchers.

But the "water security of the Colorado River basin" is an important concept, if you are one of the 40 million people who rely on the Colorado River for drinking water, a group that includes residents of Las Vegas, Los Angeles, Phoenix, Tucson, and San

Over 600 articles in six months in a variety of media outlets including the *New York Times*, *Washington Post*, *Los Angeles Times*, *Time*, *Businessweek* and *Mother Jones* with experts from across the UC system.



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The screenshot shows the Twitter profile for the UC Water Institute (@ucanrwater). The profile header includes the UC Water Institute logo, a bio stating "Univ of California | Ag & Natural Resources | Calif Inst for Water Resources | Research, extension & ed for solutions | Tweets not endorsements.", and location "Oakland, CA, USA". The profile statistics are: TWEETS 2,433, PHOTOS/VIDEOS 57, FOLLOWING 742, FOLLOWERS 1,486, and FAVORITES 1,323. The main content area displays three tweets: a retweet of a tweet by Brett Walton (@waltonwater) about Californians ring in a new water year; a tweet by UC Water Institute (@ucanrwater) about drought and bean stalks; and another retweet by UC Water Institute of a tweet by Cannon Michael (@agleader) about the battle in California to save waterfowl. The right sidebar shows "Who to follow" with three accounts and "Trends" with various hashtags like #Ebola and #Windows10.

Web: [ucanr.edu/drought](http://ucanr.edu/drought)

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