



California Institute for Water Resources

Developing research based solutions to water-related challenges



Extremely low water levels at Folsom Lake, one of California's key reservoirs.

California Department of Water Resources

“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

Drought Resources

Since 1990, with help from UC faculty, Cooperative Extension advisors and specialists, per-capita water use in California has dropped by 23 percent, and, for some crops, growers have increased water use efficiency by over 50 percent. Through research events, seminars, workshops and compilations of best practices, CIWR is helping bring UC resources to California’s farmers, ranchers, homeowners and others to deal with historic drought. Visit our drought site to keep up-to-date: ucanr.edu/drought and follow us on Twitter @ucanrwater



Sierra Foothills Drought Summit

Reducing Nitrates in Groundwater



Recent studies have shown that 90 percent of the nitrate leached to groundwater comes from agricultural fertilizers and animal manure applied to cropland. CIWR worked with UC ANR Cooperative Extension specialists and advisors to develop a training curriculum of best practices and has conducted a series of two-day training programs for Certified Crop Advisors (CCAs) throughout California. This training will help CCAs advise growers on the development and implementation of efficient nitrogen management practices.

Research for the Future

In collaboration with CIWR, UC academics provide solutions that address water-related issues in California. Projects include:

- Enhancing groundwater recharge.
- Balancing species, ecosystem, and water resource needs during drought.
- Developing models to utilize Integrated Regional Water Management solutions in disadvantaged communities.
- Improving crop water productivity through innovative irrigation management.
- Evaluating trade-offs between different types of forest management, fires and their impacts on water resources.



In addition to the projects mentioned above, CIWR continues to seek answers in rangeland management, landscape design and landscape irrigation efficiency, recycling and reuse of water, desalination, storm water capture and stream and snowpack monitoring. This research is vital to protecting California’s water supply.



Khaled Bali, UCCE Irrigation/Water Management Advisor and County Director in Imperial County

Your local UC ANR Team

CIWR

Doug Parker, Ph.D., Director
University of California
Agriculture and Natural Resources
1111 Franklin St., 10th Floor
Oakland, CA 94607-5200

Phone: 510.987.0036
FAX: 510.832.8612
<http://ciwr.ucanr.edu>
Twitter: @ucanrwater



University of California
Agriculture and Natural Resources



UC Division of Agriculture and Natural Resources



“UC ANR offers local expertise with a practical mindset and applied research. They are people who can look directly at a problem and work together with the community and campus-based experts on a solution.”

—Don Bransford
President, Bransford Farms



In **58** UC
California Counties
CE

320
UCCE Advisors and Specialists
living and working in
local communities



9 RECS
Research and
Extension Centers



6,048
active UC Volunteer
Master Gardeners

700
UC campus-based
Agricultural
Researchers
(AES)



“UC ANR’s California Institute for Water Resources is vital to help mitigate the current [drought] problem and develop practical long-term solutions.”

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

4-H Youth
5x more likely to graduate from college



Girls are
3x more likely to plan to pursue careers in science

222,000
low-income, high risk adults and youth receiving
nutrition education through UC ANR
programs — And we need to do more



UC ANR ■ ucanr.edu
California Institute for
Water Resources
ciwr.ucanr.edu
Informatics and GIS Program
igis.ucanr.edu
UC Statewide IPM Program
ucipm.ucanr.edu

California Naturalist Program
calnat.ucanr.edu
California Master Gardener
Program
mg.ucanr.edu
Youth, Families and Communities
Statewide Program
ucanr.edu/sites/yfc

4-H Youth Development Program
4h.ucanr.edu
Nutrition Policy Institute
lorrene.ritchie@ucop.edu
Expanded Food and Nutrition
Education Program (EFNEP)
efnep.ucanr.edu
UC Master Food Preserver Program
[ucanr.edu/sites/
camasterfoodpreservers](http://ucanr.edu/sites/camasterfoodpreservers)

University of California
Agriculture and Natural Resources

