

Additional CALS water-related Web sites

Arizona Watershed Information
cals.arizona.edu/watershed/

Department of Soil, Water and Environmental Sciences
cals.arizona.edu/swes/

Drought resources
cals.arizona.edu/extension/drought

Extension Water Quality
cals.arizona.edu/waterquality/WaterQualityIndex.htm

Managing Arid and Semi-arid Watersheds
cals.arizona.edu/OALS/watershed/

School of Natural Resources
cals.arizona.edu/srn/

Soil, Water and Plant Analysis Laboratory
cals.arizona.edu/~jartiola/swpal.html

Southwest Water Quality Program
cals.arizona.edu/region9wq/

The UA Water Resources Research Center (WRRC)

(520) 792-3124
[\(cals.arizona.edu/azwater/\)](http://cals.arizona.edu/azwater/)



Offering education and outreach addressing critical Arizona water issues, the Water Resources Research Center provides expertise on state and regional water management and policy. For an electronic version of their newsletter, visit

cals.arizona.edu/azwater/awr/awrmain.html

A variety of water related publications are available at:

cals.arizona.edu/pubs

Arizona Cooperative Extension (cals.arizona.edu/extension) (520) 621-7205

County Extension offices

Apache
(928) 337-2267

Cochise
(520) 384-3594

Coconino
(928) 774-1868

Gila
(928) 474-4160

Graham
(928) 428-2611

Greenlee
(928) 359-2261

La Paz
(928) 669-9843

Maricopa
(602) 470-8086

Mohave
(928) 753-3788

Navajo
(928) 524-6271

Pima
(520) 626-5161

Pinal
(520) 836-5221

Santa Cruz
(520) 281-2994

Yavapai
(928) 445-6590

Yuma
(928) 726-3904

Indian reservation offices

Colorado River Indian Tribes
(928) 669-9843

Hopi
(928) 734-3708

Hualapai
(928) 769-1284

Navajo Nation
• Shiprock
(505) 368-1028

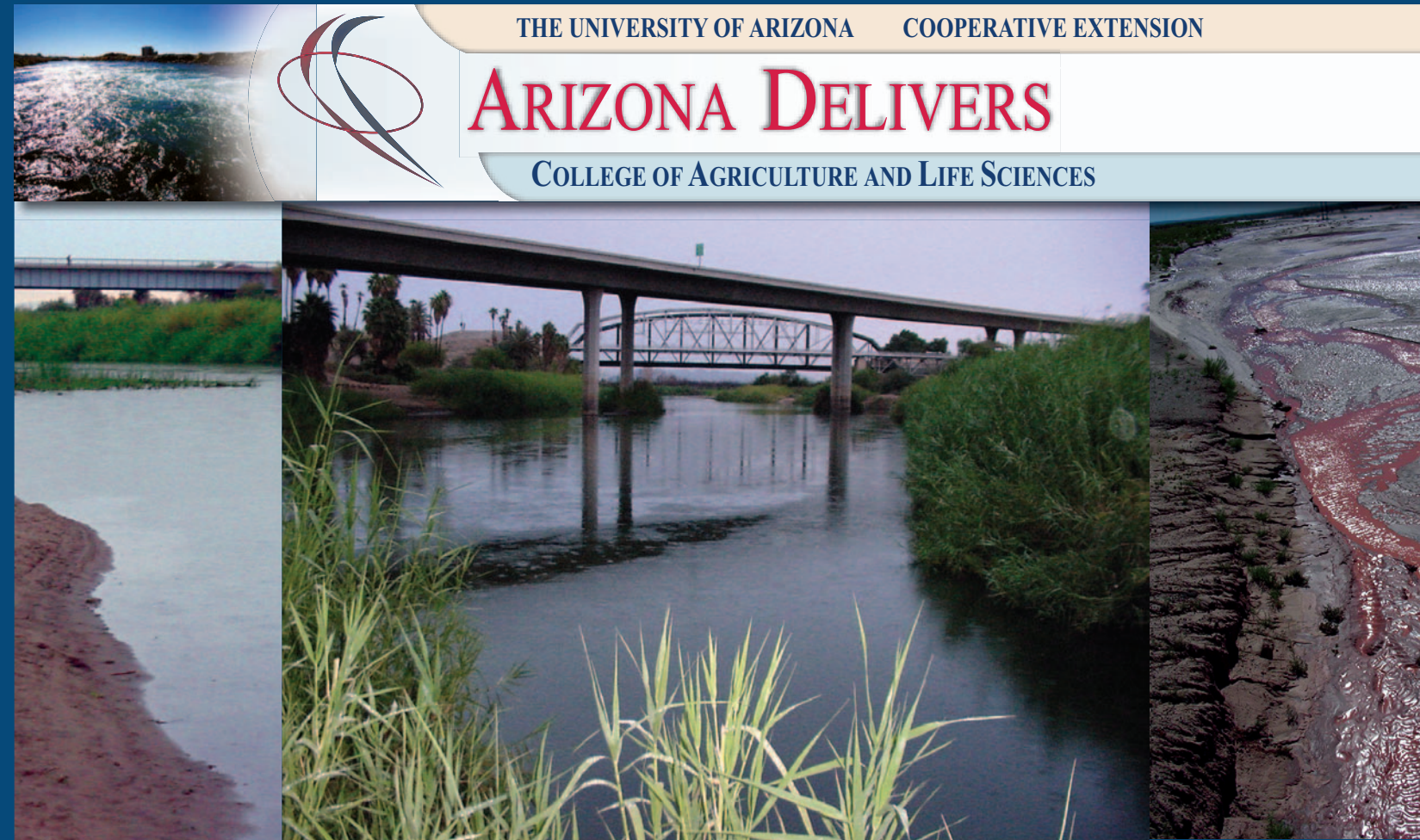
• Window Rock
(928) 871-7406

San Carlos Apache
(928) 475-2350



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2005



Water

Sustainability
Conservation
Information
Education
Quality

THE UNIVERSITY OF ARIZONA



Water Outreach Programs

University Research Applied to Community Needs

Issues surrounding drought, water supply, water quality and conservation affect Arizona residents from all walks of life. Recent climatic fluctuations plunged already arid regions of the West into a prolonged drought.

Programs from The University of Arizona Cooperative Extension are the key to delivering this expertise and information to Arizona residents. Through a statewide network of county, Experiment Station and campus offices, Cooperative Extension's innovative outreach programs help ensure a sustainable, high-quality water supply for economic development and enhanced quality of life for all of Arizona.

UA Cooperative Extension faculty are working with the Governor's Drought Task Force to develop and implement the state's first drought plan which will significantly enhance preparedness for the state and hopefully limit the impacts of future droughts.

The University of Arizona Water Sustainability Program (WSP) is a campus-wide effort to provide science-based technical, economic, legal, and policy expertise necessary for water development, use and conservation in an increasingly urban state with sustained population growth.

uawater.arizona.edu/

NEMO

(Non-point Education for Municipal Officials)

The consequences of land use activities that are known to contribute to water quality degradation are the focus of NEMO. Through workshops, presentations and conferences throughout the state, science-based information is delivered to communities in order to facilitate better decisions by elected and municipal officials, natural resource managers and residents. Through NEMO, The University of Arizona and the Arizona Department of Environmental Quality are working together to increase awareness among county and city officials, local watershed partnerships and others about how their decisions impact water quality.

www.srn.arizona.edu/nemo



Master Watershed Stewards

To become certified Master Watershed Stewards, volunteers participate in over 40 hours of coursework learning the basics of watershed science. Once certified they work closely with The University of Arizona Cooperative Extension and the Arizona Department of Environmental Quality (ADEQ). These volunteers contribute in various ways to improve their local watersheds. In 2004, in Yavapai County alone, Master Watershed Stewards contributed over 550 hours of volunteer service.

cals.arizona.edu/watershedsteward



Water Conservation for Homes and Businesses

Energy- and water-efficient landscaping (xeriscaping) demonstrates how to create beautiful and efficient environments compatible with desert communities.

Programs such as "Low 4" in Pima County (cals.arizona.edu/pima/low4/) train members of the green industry, property managers and the residential community through workshops, seminars and field instruction. Educators with the "Water Wise" program in Cochise County (cals.arizona.edu/cochise/waterwise/) perform home and business water audits and deliver school

programs. They also provide landscaping tips and deliver conservation education programs for youth and adults.

sahra.arizona.edu/programs/water_cons/index.html

Onsite Wastewater Education Program

In many parts of Arizona wastewater is processed through a septic tank. Properly sited, designed, installed, and maintained onsite wastewater treatment systems protect the environment and public health. Unfortunately, most homeowners do not understand that their wastewater treatment decisions can affect both groundwater and human health.

In 1998, UA Cooperative Extension developed "The Onsite Wastewater Education Program" to reach owners of the systems, county and state regulators and practitioners. The educational program includes a folder of fact sheets on septic system care, an interactive tabletop booth display, a physical model of a conventional system, workshops, training and a training center located at the Maricopa Agricultural Center.



cals.arizona.edu/waterquality/onsite/

Project WET (Water Education for Teachers)

Promoting awareness, appreciation, knowledge and stewardship of water resources, the internationally-sponsored Project WET disseminates information in Arizona through classroom-ready teaching aids.

Offered through the UA Water Resources Research Center (WRRC) and county Extension offices, Project WET provides a consistent conservation strategy designed to encourage wise water use throughout the state. In 2004, 40 workshops reached 738 educators. By reaching classroom teachers who, in turn, reach students, the goal is to develop water literate citizens and decision makers for tomorrow.

cals.arizona.edu/azwater/wet



AZMET (Arizona Meteorological Network)

Every day, every hour, AZMET's 28 automated weather stations in southern and central Arizona collect data and transmit it to anyone who needs current weather-related information.

Turfgrass managers, cotton and vegetable growers and golf course and park managers can track air and soil temperatures, relative humidity, solar radiation, wind and precipitation in their

areas through this site, which is updated hourly.

They use this information to adjust irrigation schedules to efficiently use limited water and to make management decisions for optimal plant growth. The information is available through the Internet, email, fax, printed copy or over the phone.

cals.arizona.edu/azmet/

Irrigated Agriculture

Growers in the arid Southwest manage water and fertilizer applications carefully. With over 930,000 acres of irrigated cropland in Arizona, and crops ranging from citrus and lettuce to pecans and apples, measuring water is a critical part of any irrigation management system.

Methods of drip irrigation (cals.arizona.edu/azdrip) and nutrient management on vegetables have been studied for the last ten years at the UA's Maricopa Agricultural Center in central Arizona, helping growers save water and reduce environmental impacts.



cals.arizona.edu/crops/irrigation/irrigation.html



Water Wagon

The "Water Wagon" is a specially designed mobile laboratory that brings water education to K-12 students and teachers in Graham, Greenlee and northern Cochise counties. By rotating through hands-on experiments at four stations students learn about the water cycle, watershed education, groundwater dynamics, and water chemistry/biology. As the first of its kind in the state, it delivers water education programs to rural areas and serves as a prototype for use in other counties across Arizona.

uawater.arizona.edu/pubs/bulletins/Norton.pdf